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# **VOLUME 1 Hierarchical Listing With Definitions**

## NASA STI Program ... in Profile

Since its founding, NASA has been dedicated to the advancement of aeronautics and space science. The NASA scientific and technical information (STI) program plays a key part in helping NASA maintain this important role.

The NASA STI program operates under the auspices of the Agency Chief Information Officer. It collects, organizes, provides for archiving, and disseminates NASA's STI. The NASA STI program provides access to the NASA Aeronautics and Space Database and its public interface, the NASA Technical Report Server, thus providing one of the largest collections of aeronautical and space science STI in the world. Results are published in both non-NASA channels and by NASA in the NASA STI Report Series, which includes the following report types:

- TECHNICAL PUBLICATION. Reports of completed research or a major significant phase of research that present the results of NASA Programs and include extensive data or theoretical analysis. Includes compilations of significant scientific and technical data and information deemed to be of continuing reference value. NASA counterpart of peer-reviewed formal professional papers but has less stringent limitations on manuscript length and extent of graphic presentations.
- TECHNICAL MEMORANDUM.
   Scientific and technical findings that are preliminary or of specialized interest, e.g., quick release reports, working papers, and bibliographies that contain minimal annotation. Does not contain extensive analysis.
- CONTRACTOR REPORT. Scientific and technical findings by NASA-sponsored contractors and grantees.

- CONFERENCE PUBLICATION.
   Collected papers from scientific and technical conferences, symposia, seminars, or other meetings sponsored or co-sponsored by NASA.
- SPECIAL PUBLICATION. Scientific, technical, or historical information from NASA programs, projects, and missions, often concerned with subjects having substantial public interest.
- TECHNICAL TRANSLATION.
   English-language translations of foreign scientific and technical material pertinent to NASA's mission.

Specialized services also include creating custom thesauri, building customized databases, and organizing and publishing research results.

For more information about the NASA STI program, see the following:

- Access the NASA STI program home page at <a href="http://www.sti.nasa.gov">http://www.sti.nasa.gov</a>
- E-mail your question via the Internet to help@sti.nasa.gov
- Fax your question to the NASA STI Help Desk at (301) 621-0134
- Phone the NASA STI Help Desk at (301) 621-0390
- Write to: NASA STI Help Desk NASA Center for AeroSpace Information 7115 Standard Drive Hanover, MD 21076-1320

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**Volume 2** • **Rotated Term Display** 

## Introduction

The NASA Thesaurus contains the authorized subject terms by which the documents in the NASA Aeronautics and Space Database are indexed and retrieved. The NASA Thesaurus comprises two volumes: Volume 1 – Hierarchical Listing With Definitions and Volume 2 – Rotated Term Display.

The *Hierarchical Listing With Definitions* contains all subject terms and USE cross references currently approved for use, and displays the full hierarchical structure for each term along with a definition when available. In addition, the listing has been developed to serve as an orthographic authority for upper/lowercase forms of all terms and cross references. The **term-added date**, displayed for all terms added after April 1988, is also given. The listing includes terms appearing in the *NASA Thesaurus*, *Preliminary Edition* (December 1967), the *NASA Thesaurus* (1982, 1985, 1988, 1994, and 1998 editions), and other terms approved for use through the end of December 2007. Over 18,300 terms, 4,300 definitions, and approximately 4,500 USE references are contained in the *Hierarchical Listing With Definitions*.

The *Rotated Term Display* is a ready-reference tool that provides thousands of additional 'access points' to the thesaurus terminology. It contains the postable terms and nonpostable terms found in the *Hierarchical Listing* arranged in a KWIC (key-word-in-context) index. It is a useful companion to the *Volume 1* listing, containing more than 52,700 entries.

New editions of the *NASA Thesaurus* CD-ROM are produced annually. Monthly updates are posted on the Thesaurus information page of the NASA scientific and technical information Web site at <a href="http://www.sti.nasa.gov/thesfrm1.htm">http://www.sti.nasa.gov/thesfrm1.htm</a>. Suggestions for term modification, deletion, and addition may be e-mailed to <a href="majernation-ma

Lexicographer NASA Center for AeroSpace Information 7115 Standard Drive Hanover, MD 21076-1320

The terminology of the earliest edition of the *NASA Thesaurus* was based in large part on the actual indexing vocabulary developed by NASA during the 1960s. Other thesauri, notably the DOD *Thesaurus of Engineering and Scientific Terms* (AD-672000), have provided additional candidate terms. The general guidelines for the initial creation of the *NASA Thesaurus* were based on the COSATI *Guidelines for the Development of Information Retrieval Thesauri* (1 September 1967). Continuing development of the *NASA Thesaurus* conforms to the thesaurus standard of the National Information Standards Organization (*Guidelines for the Construction, Format, and Management of Monolingual Controlled Vocabularies*, ANSI/NISO Z39.19-2005).

#### Nomenclature and Conventions

**Postable Terms**. Subject terms that have been approved for use in indexing, and thus can be 'posted.' In *Volume* 1, postable terms are shown in non-italic type.

**Nonpostable Terms**. Terms that are included for cross reference information and cannot be used for indexing. In *Volume* 1, nonpostable terms are set in italics.

**Term Selection**. Subject terms have been chosen on the basis of their significance and use in aerospace literature and their effectiveness in representing productive retrieval concepts. Particular consideration has been given to frequency of use in earlier NASA indexing and search vocabularies, to relationships with other terms in the vocabulary, and to precise scientific and technical usage.

**Noun Usage**. In general, subject terms are presented in the noun form.

**Singular vs. Plural**. The plural form has, in general, been used for subject terms. The singular form, however, is employed for non-count nouns (such as *snow*), terms that refer to unique entities such as *Mariner 10 Space Probe*, and terms related to specific processes, properties, and conditions.

**Term Length**. No more than 42 characters, including spaces, are used for any subject term. Various words in longer terms are sometimes truncated. Full expanded forms of such truncated terms are generally included in the scope notes.

**Term Ambiguity**. When subject terms have more than one meaning in aerospace usage, or where distinction between terms must be made, clarification is provided in one of two ways:

a) Parenthetical qualifying expressions or glosses are added, becoming part of the subject term. For example:

sizing (shaping)
sizing (surface treatment)

b) Scope notes are also added for explanation or definition; they do not become part of the subject term. For example:

## rotational states

SN (LIMITED TO MOLECULAR ENERGY LEVELS — EXCLUDES ROTATIONAL DYNAMICS OF VEHICLES OR OTHER BODIES)

**Word Order**. Subject terms that consist of more than one word are listed in *direct order*, i.e., in their natural word order rather than in an inverted form. (The *Rotated Term Display* can be used to access terms by embedded words.)

**Abbreviations and Acronyms**. Abbreviations and acronyms that are in common usage in the aerospace and general engineering communities are employed for some postable terms in this thesaurus. In most cases, USE cross references are made from the unabbreviated forms. For example:

Orbiting Solar Observatory USE **OSO** 

**Synonyms**. When candidate subject terms are true synonyms, one is chosen to be the valid, or postable term, and the other is provided with a USE cross reference. For example:

Columbium **niobium** 

USE **niobium** UF columbium

**Array Terms**. Subject terms with meanings either too broad or ambiguous for effective indexing or retrieval of information, have been designated array terms and carry the following scope note (USE OF A MORE SPECIFIC TERM IS RECOMMENDED — CONSULT THE TERMS LISTED BELOW). Relationships with other postable terms are shown by the Related Term (RT) reference only. For example:

 $\infty$  beams

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED — CONSULT THE

TERMS LISTED BELOW)

RT beams (radiation) beams (supports)

An infinity symbol  $(\infty)$  precedes an array term in each of its appearances in *Volume 1*.

**Identifiers**. In the *NASA Thesaurus*, identifiers (i.e., terms that designate unique entities) are treated as regular terms and are provided complete cross references. Most identifiers are proper nouns and many include a numeric or alphabetic designation for a particular model or item. As a general rule, identifiers are added to the thesaurus only if they have an important relation to the aerospace sciences.

#### F-111 aircraft

UF LASV

TFX aircraft

GS attack aircraft

. fighter aircraft

.. F-111 aircraft

General Dynamics aircraft

. F-111 aircraft

Grumman aircraft

. F-111 aircraft

jet aircraft

. turbofan aircraft

.. F-111 aircraft

supersonic aircraft

. F-111 aircraft

RT ∞ aircraft

mission adaptive wings variable sweep wings

## Cross Reference Structure

Cross reference relationships in the *Hierarchical Listing With Definitions* are shown as follows:

| <b>Cross References</b> | Notation |
|-------------------------|----------|
| Broader Term            | GS       |
| Narrower Term           | GS       |
| Related Term            | RT       |
| Use                     | USE      |
| Used For                | UF       |

These cross references have the following applications:

**Broader Term**. This reference indicates that the term represents a more inclusive concept. In the Generic Structure (GS), the broader terms appear above and to the left of the term referenced. For example:

## reentry communication

GS telecommunication

- . space communication
- . . spacecraft communication
- ... reentry communication

The terms *telecommunication*, *space communication*, and *spacecraft communication* are broader terms to *reentry communication*.

**Narrower Term**. This reference indicates that the term represents a more specific concept. In the Generic Structure (GS), the narrower terms appear below and to the right (indented) of the term referenced. For example:

#### **GS** scanners

- . Coastal Zone Color Scanner
- . horizon scanners
- . infrared scanners
- . ocean color scanner
- . optical scanners
- . . flying spot scanners
- . . multispectral band scanners
- ... Thematic Mappers (Landsat)
- . ultrasonic scanners

The terms Coastal Zone Color Scanner, horizon scanners, infrared scanners, ocean color scanners, optical scanners, and ultrasonic scanners are narrower terms to scanners. The terms flying spot scanners, multispectral band scanners, and Thematic Mappers (Landsat) are narrower to both optical scanners and scanners.

The number of narrower terms is not limited. For example, *artificial satellites* has nearly 500 narrower terms.

**Related Terms (RT)**. This reference indicates that the two terms are conceptually associated, but not equivalent or generically related. The RT relationship is reciprocal, as illustrated in the following example:

## radar equipment

## radio equipment

RT radio equipment

RT radar equipment

**Use (USE)**. This reference indicates that the listed term is not 'postable,' i.e., not a valid term, and that the term or terms adjacent to the USE indicator should be used instead. Note that all nonpostable terms are set in italics. For example:

jet airstreams

**USE** jet streams (meteorology)

**Used For (UF)**. This relation is the reciprocal of the USE cross reference and indicates that the term listed above the UF indicator is a valid or 'postable' term, and term or terms adjacent to the UF indicator are nonpostable. For example:

## jet streams (meteorology)

UF jet airstreams

## Filing Order

The ordering of subject terms into an alphabetical arrangement can be accomplished in several ways. The most commonly used methods are the letter-by-letter, word-by-word, and the computer sorting order. In the absence of any universal agreement on a standardized approach, a word-oriented modification of the computer sorting technique has been adopted in this thesaurus.

A special feature has been added to this technique to sort numeric designations in natural ascending order. Non-alphanumeric characters contained within terms are sorted prior to alphanumeric characters. In *Volume 2*, non-alphanumerics are ignored altogether for the general KWIC sort. Thus, embedded parentheses are filed before the alphabet in *Volume 1*, but are ignored for filing in *Volume 2*. Hyphens, slashes and periods follow blank spaces.

## Retrospective Indexing

Between 1984 and 1993, all terms added to the *NASA Thesaurus* were retrospectively assigned to past database records using a method that combined advanced search strategies and manual review. Most of the terms for which this procedure was carried out can be identified by checking the **term-added date** that appears directly below the term in *Volume 1*. Term-added dates are provided for all terms added to the *NASA Thesaurus* after April 1988.

## Thesaurus Term Definitions

Definitions are given for most terms added since 1976 as well as for many earlier terms. Definitions of more common or general scientific terms are given a NASA slant if one exists. Certain x terms are not defined as a matter of policy: common place names, chemical elements, specific models of computers, and non-technical terms. Other terms lack definitions because the *NASA Thesaurus* predates by a number of years the systematic effort to define terms. Nevertheless, definitions of older terms are continually being added.

Many of the definitions contained in the *Thesaurus* were constructed by lexicographers at the NASA Center for AeroSpace Information, who rely on the following sources for their information: experts in the field, literature searches from the NASA STI databases, and specialized references. Other definitions were obtained from the following sources:

AGI. Glossary of Geology, 3rd edition. Alexandria, VA, American Geological Institute, 1987.

**ASTM**. Compilation of ASTM Standard Definitions, 6th edition. Philadelphia, PA, ASTM, 1986. Copyright, the American Society for Testing and Materials (ASTM). All rights reserved. Used with the permission of ASTM. The original definitions appeared in the Annual Book of ASTM Standards.

**DOE**. Energy Data Base Subject Thesaurus (DOE/TIC-7000-R7). Oak Ridge, TN, Department of Energy, 1987.

**IEEE**. *Standard Dictionary of Electrical and Electronics Terms*, Fourth ed., New York, NY, IEEE, 1988.

**SP-7**. Dictionary of Technical Terms for Aerospace Use, NASA SP-7. Washington, DC, NASA, 1965.

In some cases, definitions from these sources have been subjected to minor editorial alterations; for example, to make a definition agree in number with the NASA form of the term.

## Historical Printed Editions

NASA Thesaurus; Subject Terms for Indexing Scientific and Technical Information. Preliminary Edition, 1967. NASA SP-7030. 3 Vols., Vol. 1, Alphabetical Listing, A-L; Vol. 2, Alphabetical Listing, M-Z; Vol. 3, Appendixes.

NASA Thesaurus Alphabetical Update, 1971. NASA SP-7040.

NASA Thesaurus. 1976 Edition. NASA SP-7050. 2 Vols., Vol. 1, Alphabetical Listing; Vol. 2, Access Vocabulary.

NASA Thesaurus. 1982 Edition. NASA SP-7051. 2 Vols., Vol. 1, Hierarchical Listing; Vol. 2, Access Vocabulary.

NASA Thesaurus. 1985 Edition. NASA SP-7053. 2 Vols., Vol. 1, Hierarchical Listing; Vol. 2, Access Vocabulary.

NASA Thesaurus. 1988 Edition. NASA SP-7064. 3 Vols., Vol. 1, Hierarchical Listing; Vol. 2, Access Vocabulary; Vol. 3, Definitions.

NASA Thesaurus. 1994 Edition. NASA SP-7096. 3 Vols., Vol. 1, Hierarchical Listing; Vol. 2, Access Vocabulary; Vol. 3, Definitions.

NASA Thesaurus, 1998 Edition, NASA/SP-1998-7501, 2 Vols., Vol. 1, Hierarchical Listing With Definitions; Vol. 2, Rotated Term Display.

# **Typical Hierarchical Listing With Definition**

- 1 microbursts (meteorology)
- ② (added January 1993)
- 3 SN (EXCLUDES IONOSPHERIC RADIATION MICROBURSTS)
- DEF A strong, localized downdraft that strikes the ground creating an outflow of severe winds near the ground that diverge radially from the impact point.
- ⑤ UF bow echo microburst events
- 6 GS meteorology
  - . micrometeorology
  - . . microbursts (meteorology)

#### storms

- . storms (meteorology)
- . . downbursts
- . . . microbursts (meteorology)
- RT aviation meteorology flight hazards thunderstorms vertical air currents wind shear

## **Key**

- 1. Postable Term
- 2. Date Added
- 3. Scope Note
- 4. Definition
- 5. Used For Term
- 6. Generic Structure
- 7. Related Term

# **Typical USE Cross Reference**

- ① vacuum ultraviolet radiation
- 2 USE far ultraviolet radiation

## Key

- 1. Nonpostable Term
- 2. Postable Note

# **Typical Array Term Listing**

- SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)
- 3 RT boson fields electric fields field of view field theory (algebra) field theory (physics) gravitational fields magnetic fields military air facilities self consistent fields visual fields

## Kev

- 1. Array Term
- 2. Scope Note
- 3. Related Term

# NASA THESAURUS

## **VOLUME 1** HIERARCHICAL LISTING WITH DEFINITIONS

## NUMERALS

2001 Mars Odyssey (added May 2001)

DEF Mars orbiter mission designed to make global observations of Mars to improve our understanding of the Martian climate and geologic history, including the search for liquid water and evidence of past life. The three primary instruments carried onboard are THEMIS (Thermal Emission Imaging System), GRS (Gamma Ray Spectrometer), and MARIE (Mars Radiation Environment Experiment). Launched April 2001.

space missions

. Mars missions

. . 2001 Mars Odyssey

gamma ray spectrometers Mars (planet) Mars exploration Mars surface

Mars Surveyor 2001 Mission

#### A stars

GS celestial bodies

. stars

. . early stars

. . . hot stars

. . . A stars

RT blue stars

peculiar stars

. Wolf-Rayet stars

#### A-1 aircraft

Skyraider aircraft UF GS

attack aircraft

A-1 aircraft

McDonnell Douglas aircraft

. Douglas aircraft

. . A-1 aircraft

monoplanes

#### A-1 aircraft

#### RT ∞ aircraft

A-2 aircraft

Savage aircraft attack aircraft

. bomber aircraft

. A-2 aircraft

iet aircraft

. A-2 aircraft

monoplanes

A-2 aircraft

North American aircraft

A-2 aircraft

RT ∞ aircraft

A2F aircraft

USE A-6 aircraft

#### A-3 aircraft

A3D aircraft UF

Skywarrior aircraft

GS attack aircraft . bomber aircraft

. A-3 aircraft

jet aircraft

A-3 aircraft

McDonnell Douglas aircraft

. Douglas aircraft

. . A-3 aircraft

monoplanes A-3 aircraft

RT ∞ aircraft

A3D aircraft

USE A-3 aircraft

A3J aircraft

USE A-5 aircraft

A-4 aircraft

A4D aircraft

Skyhawk aircraft

attack aircraft

bomber aircraft

. A-4 aircraft jet aircraft

A-4 aircraft

McDonnell Douglas aircraft

Douglas aircraft

. A-4 aircraft monoplanes

A-4 aircraft

RT ∞ aircraft

J-65 engine

A4D aircraft

USE A-4 aircraft

#### A-5 aircraft

UF A3J aircraft

Vigilante aircraft

GS attack aircraft

. bomber aircraft

. A-5 aircraft

jet aircraft A-5 aircraft

monoplanes

A-5 aircraft

North American aircraft . A-5 aircraft

supersonic aircraft

A-5 aircraft RT ∞ aircraft

A-6 aircraft

A2F aircraft

Intruder aircraft

attack aircraft

. bomber aircraft

A-6 aircraft

Grumman aircraft

A-6 aircraft

jet aircraft

. A-6 aircraft

monoplanes

A-6 aircraft

#### RT ∞ aircraft

A-7 aircraft

Corsair aircraft GS

attack aircraft

A-7 aircraft

jet aircraft

turbofan aircraft

. A-7 aircraft

Ling-Temco-Vought aircraft . A-7 aircraft

monoplanes

A-7 aircraft

RT ∞ aircraft

#### A-9 aircraft

attack aircraft

A-9 aircraft

Northrop aircraft

. A-9 aircraft reconnaissance aircraft

A-9 aircraft

RT ∞ aircraft

#### A-10 aircraft

attack aircraft GS

A-10 aircraft

Republic aircraft A-10 aircraft

A-11 satellite

RT ∞ aircraft

USE Echo 1 satellite

A-12 satellite USE Echo 2 satellite

A-37 aircraft GS attack aircraft A-37 aircraft

Cessna aircraft . A-37 aircraft

monoplanes
. A-37 aircraft

RT ∞ aircraft

T-37 aircraft

#### A-300 aircraft

GS commercial aircraft

. European Airbus

. A-300 aircraft

iet aircraft

. European Airbus . A-300 aircraft

passenger aircraft

. European Airbus

A-300 aircraft

transport aircraft

. European Airbus

... A-300 aircraft

RT ∞ aircraft

international cooperation

A-310 aircraft

GS commercial aircraft

. European Airbus

. A-310 aircraft

iet aircraft

. European Airbus . A-310 aircraft

passenger aircraft

. European Airbus . A-310 aircraft

transport aircraft

. European Airbus A-310 aircraft

#### RT

GS

international cooperation

A-320 aircraft

commercial aircraft

. European Airbus

. A-320 aircraft

jet aircraft

. European Airbus . A-320 aircraft

passenger aircraft

. European Airbus

... A-320 aircraft

transport aircraft . European Airbus

#### A-320 aircraft international cooperation

A-330 aircraft

(added September 1994)

GS commercial aircraft

. European Airbus

A-330 aircraft jet aircraft

. European Airbus . A-330 aircraft

passenger aircraft

. European Airbus . A-330 aircraft

transport aircraft

. European Airbus A-330 aircraft

RT ∞ aircraft

international cooperation

A-340 aircraft (added September 1994)

GS commercial aircraft . European Airbus

A-340 aircraft jet aircraft

. European Airbus . . A-340 aircraft

passenger aircraft . European Airbus

A-340 aircraft

transport aircraft

. European Airbus deviation thermal protection A-340 aircraft distortion grazing incidence ablative nose cones RT ∞ aircraft international cooperation spatial filtering GS cones . nose cones A-380 aircraft . ablative nose cones abilities (added June 2005) proficiency forebodies UF GS commercial aircraft , skills . noses (forebodies) . European Airbus abilities . . nose cones GS A-380 aircraft . ablative nose cones aptitude jet aircraft ablation RT effort . European Airbus heat shielding human performance ... A-380 aircraft reentry shielding intelligence passenger aircraft reentry vehicles intelligence tests . European Airbus rocket nose cones mental performance A-380 aircraft shielding psychomotor performance transport aircraft transfer of training . European Airbus Ablestar launch vehicle A-380 aircraft GS launch vehicles abiogenesis . Ablestar launch vehicle RT civil aviation DEF The development of living organisms rocket vehicles international cooperation from lifeless matter. . multistage rocket vehicles evolution (development) . Ablestar launch vehicle **AABNCP** . biological evolution USE E-4A aircraft RT liquid propellant rocket engines . abiogenesis autocatalysis RT ABM AAP 1 mission chemical evolution Apollo applications program USE apogee boost motors life sciences Apollo project panspermia abnormalities Skylab program protobiology self assembly aberration AAP 2 mission deviation spermatogenesis Apollo applications program distortion Apollo project eccentricity ablated nosetips irregularities Skylab program USE PANT program uniqueness AAP 3 mission Apollo applications program ablation aborigines DEF The removal of surface material from a Apollo project anthropology body by vaporization, melting, chipping, or other erosive process; specifically, the intentional rehuman beings Skylab program inhabitants moval of material from a nose cone or space-AAP 4 mission craft during high speed movement through a Apollo applications program abort apparatus planetary atmosphere to provide thermal protecflight termination systems Apollo project tion to the underlying structure. safety devices Skylab program GS ablation . abort apparatus laser ablation abbreviations aborted missions (added December 1994) RT ablative materials aircraft safety ablative nose cones acronyms arresting gear aerodynamic heat transfer initialisms ∞ barriers aerodynamic heating RT alphabets brakes (for arresting motion) coding aerothermochemistry drag devices dictionaries atmospheric entry ejection seats burnthrough (failure) symbols ∞ equipment terminology charring escape capsules words (language) cooling escape rockets decomposition flying ejection seats erosion abdomen gas-metal interactions abort trajectories anatomy GS heat shielding abdomen trajectories GS impingement abort trajectories digestive system jet impingement gastrointestinal system aborted missions mass transfer intestines emergency landing melting peritoneum MATTS (systems) pyrolysis stomach reentry ventral sections aborted missions reentry effects viscera abort apparatus reentry physics abort trajectories reentry shielding sublimation Abel function destruction GS analysis (mathematics) engine failure temperature effects . real variables escape capsules thermal absorption . Abel function escape rockets thermal decomposition functions (mathematics) failure Abel function vaporizing malfunctions series (mathematics) RT ∞ missions ablative materials DEF Materials, especially coating materials, DEF In astronomy, the apparent angular designed to provide thermal protection to a body DEF The surface loss of a material due to displacement of the position of a celestial body in a fluid stream through the loss of mass. frictional forces. in the direction of motion of the observer, caused ablation RT abrasives by the combination of the velocity of the obcarbon-phenolic composites chipping server and the velocity of light. In optics, a cleaning cooling specific deviation from perfect imagery, as, for heat shielding cutting example: spherical aberration, coma, astigmaheat sinks dry friction tism, curvature of field, and distortion. ∞ materials erosion abnormalities nose cones files (tools) RT anisoplanatism nozzle inserts friction asphericity grinding (material removal) pyrolytic materials blurring refractory materials lesions

temperature

thermal control coatings

metallography

polishing

scoring RT absorbents RT absorption cooling soil erosion absorbers (equipment) absorption cross sections tribology absorbers (materials) absorption spectra wear attenuators absorption spectroscopy absorptivity wear resistance cleaners oscillation dampers activated carbon abrasion resistance shock absorbers adsorption GS mechanical properties vibration isolators atomic collisions . wear resistance attenuation . abrasion resistance absorbers (equipment) auroral absorption RT hardness (EXCLUDES EQUIPMENT FOR ABSORBING ENERGY) absorbents beneficiation SN ∞ resistance capture effect toughness collision parameters ∞ absorbers cosmic ray albedo absorbers (materials) abrasives damping air conditioning equipment DEF Rocks, minerals, or other substances desorption cleaners that, owing to their superior hardness, toughdiffusion columns (process engineering) drying electromagnetic absorption ness, consistency, or other properties, are suitcondensers (liquefiers) cooling systems able for grinding, cutting, polishing, scouring, or similar use. energy absorption energy absorption films RT degassing abrasion aluminum oxides drying apparatus gamma ray absorption infrared absorption ∞ equipment material absorption Carborundum (trademark) ceramics infrared spectra material absorption diamonds refrigerating machinery shock absorbers materials recovery paint removal microwave absorption pumice absorbers (materials) moderation (energy absorption) (EXCLUDES ABSORBENTS-LIMITED TO MATERIALS FOR ABSORBING RADIATION RATHER THAN OTHER MATERIALS) absorbers (materials) quartz molecular absorption silicon carbides multiphoton absorption permeating Abrikosov theory . neutron absorbers photoabsorption crystal structure . radar absorbers planetary atmospheres electromagnetic fields polar cap absorption . . antiradar coatings horseshoe vortices radiation absorption solar energy absorbers superconductivity self absorption absorbents superconductors (materials) sorption absorbers ∞ theories sound transmission absorbers (equipment) vortices thermal absorption acoustic retrofitting ultraviolet absorption attenuators abscisic acid visible spectrum cleaners (added August 2004) electromagnetic absorption x ray absorption DEF Abscission-accelerating plant growth substance isolated from young cotton fruit, electromagnetic wave filters absorption bands energy absorption leaves of sycamore, birch, and other plants, and USE absorption spectra ∞ filters heat sinks from potatoes, lemons, avocados, and other fruits. absorption coefficient insulation GS acids USE absorptivity jackets . carboxylic acids low density materials . abscisic acid absorption cooling ∞ materials organic compounds DEF Refrigeration in which cooling is efradiation shielding . carboxylic acids fected by the expansion of liquid ammonia into refrigerants . abscisic acid gas and the absorption of the gas by water. The shielding plant growth regulators ammonia is reused after the water evaporates. sinks abscisic acid GS cooling stopping power terpenes . absorption cooling suppressors abscisic acid RT ∞ absorption plant physiology ammonia absorptance plants (botany) magnetic cooling DEF The ratio of the radiant flux absorbed refrigerants by a body to that incident upon it. absolute zero electromagnetic properties Temperature of -273. 16 deg. C or absorption cross sections . optical properties -459. 69 deg. F or 0 deg. K at which molecular In radar, cross sections characterized absorptance motion vanishes and a body has no heat energy. by the amount of power removed from a beam albedo RT GS temperature by absorption of radio energy by a target to the capture effect absolute zero power in the beam incident upon the target. cosmic ray albedo cryogenic temperature Used for capture cross sections. density (mass/volume) cryogenics UF capture cross sections Earth albedo subzero temperature RT ∞ absorption electromagnetic absorption temperature effects ∞ cross sections light transmission temperature scales ionization cross sections lunar albedo zero point energy neutron cross sections microwave absorption radiation absorption absorbents opacity scattering cross sections UF molecular sieves reflectance stopping power GS sorbents surface properties absorbents transmission absorption spectra RT ∞ absorbers transmissivity The arrays of absorption lines and absorbers (equipment) transmittance absorption bands which result from the passage absorbers (materials) transparence of radiant energy from a continuous source

#### ∞ absorbers

adsorbents

desiccants

∞ materials

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

air conditioning equipment

low density materials

material absorption

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

turbidity

absorption

DEF The process by which radiant energy is absorbed and converted into other forms of energy. In general, the taking up or assimilation of one substance by another. In vacuum technology, gas entering the interior of a solid.

through a selectively absorbing medium cooler

than the source. Used for absorption bands and

absorption bands

spectral absorption

spectral absorption.

spectra . radiation spectra

## absorption spectroscopy

| telluric lines  | oscillator strengths   | aravimetry  |
|---|--|---|
|   | photoacoustic spectroscopy   | gravimetry  |
| . spectral bands  |  | high acceleration   |
| absorption spectra  | scattering coefficients  | high gravity environments   |
| Fraunhofer lines  | self absorption  | human tolerances  |
| Herzberg bands  | transmissivity   | impact acceleration   |
| telluric lines  | transparence   | particle acceleration   |
| RT ∞ absorption   |  | physiological acceleration  |
| Balmer series   | abstracts  | plasma acceleration   |
| ∞ bands   | GS documents   | transverse acceleration   |
| blue shift  | . abstracts  |   |
| continuous radiation  | summaries  | acceleration (physics)  |
| D lines   | . abstracts  | DEF The rate of change of velocity. The act   |
| differential absorption lidar   | RT annotations   | or process of accelerating or the state of being  |
| electromagnetic absorption  | bibliographies   | accelerated. Used for boost and G force.  |
| electromagnetic spectra   | indexes (documentation)  | UF boost  |
| electron spectroscopy   | information retrieval  | G force   |
| electronic spectra  | technical writing  | GS rates (per time)   |
| emission spectra  |  | . acceleration (physics)  |
| energy spectra  | abundance  | angular acceleration  |
| Fraunhofer line discriminators  | DEF The mean concentration of an element   | deceleration  |
| galactic nuclei   | in a geochemical reservoir, e.g., the abundance  | spin reduction  |
| gamma ray absorptiometry  | of Ni in meteorites or the crustal abundance of  | electron acceleration   |
| H alpha line  | oxygen. Also used for the for relative average   | high acceleration   |
| H beta line   | content, e.g., the order of abundance of ele-  | high gravity environments   |
| H gamma line  | ments in the Earth's crust is O, Si, AL, Fe, Ca,   | impact acceleration   |
| H lines   | etc. Used for element abundance.   | particle acceleration   |
| ionizing radiation  | UF element abundance   | plasma acceleration   |
| K lines   | RT availability  | transverse acceleration   |
| laser spectrometers   | energy policy  |   |
|   | geochemistry   | RT ∞ acceleration   |
| line spectra microwave absorption   | metallic stars   | acceleration measurement  |
| •   | metallicity  | acceleration stresses (physiology)  |
| microwave spectra   | reserves   | accelerometers  |
| molecular spectra   | resources  | body kinematics   |
| molecular spectroscopy  | stellar composition  | expulsion   |
| oscillator strengths  | Stellar composition  | flight stress (biology)   |
| paramagnetic resonance  | AC (current)   | ∞ force   |
| Paschen series  | USE alternating current  | kinematics  |
| photoacoustic spectroscopy  | OOL diternating current  | kinetics  |
| photoluminescent bands  | AC generators  | mechanical shock  |
| photon absorptiometry   | DEF Generators for the production of   | ∞ motion  |
| Raman spectra   | alternating-current power. Used for alternating  | physiological acceleration  |
| rotational spectra  | current generators and alternators (generators).   | stress (physiology)   |
| Rydberg series  | UF alternating current generators  | thrust  |
| Schumann-Runge bands  | alternators (generators)   | thrust-weight ratio   |
| self absorption   | GS electric generators   | velocity  |
| solar spectra   |  | •   |
| solar spectrometers   | . AC generators  | acceleration measurement  |
| spectrum analysis   | linear alternators static alternators  | (added April 1997)  |
| spin temperature  |  | SN (LIMITED TO TECHNIQUES AND   |
| stellar spectra   |  | INSTRUMENTATION FOR DETERMINING   |
| symbiotic stars   | free-piston engines<br>∞ generators  | THE DIRECTION AND MAGNITUDE OF ACCELERATION; USE TERMS FROM THE   |
| ultraviolet spectra   | •  | "ACCELERATION (PHYSICS)"  |
| visible spectrum  | rotating generators  | HIERARCHY TO INDICATE THE DATA  |
| ·   | turbogenerators  | OBTAINED FROM MEASUREMENT)  |
| absorption spectroscopy   | AC-1 aircraft  | RT acceleration (physics)   |
| GS spectroscopy   |  | accelerometers  |
| absorption spectroscopy   | USE DHC 4 aircraft   | angular acceleration  |
| optogalvanic spectroscopy   |  | inertial navigation   |
| RT ∞ absorption   | accelerated life tests   | ∞ measurement   |
| Fraunhofer lines  | DEF Methods designed to approximate, in a  | robot sensors   |
| infrared spectroscopy   | short time, the deteriorating effects under nor-   | transverse acceleration   |
| laser-induced breakdown   | mal long-term service conditions.  | velocity measurement  |
| spectroscopy  | RT acceptability   |   |
| optical equipment   | evaluation   | acceleration protection   |
| optical measuring instruments   | fatigue life   | GS protection   |
| ultraviolet spectroscopy  | life (durability)  | acceleration protection   |
| unanisist speemeesspy   | performance tests  | RT ∞ acceleration   |
| absorptive index  | quality control  | embedding   |
| USE absorptivity  | service life   | supine position   |
|   | ∞ tests  |   |
| absorptivity  | acceleration or  | acceleration stresses (physiology)  |
| DEF The capacity of a material to absorb  | accelerating agents  | GS stress (biology)   |
| incident radiant energy, measured as the ab-  | RT ∞ accelerators  | . acceleration stresses (physiology)  |
| sorptance of a specimen of material thick   |  | centrifuging stress   |
| enough to be completely opaque, and having an   | admixtures   |   |
| optically smooth surface. Used for absorption   | ∞ agents   | stress (physiology)   |
| and affiliate water and the beautiful to the class.   | ∞ agents<br>catalysts  | stress (physiology) . acceleration stresses (physiology)  |
| coefficient and absorptive index.   | ∞ agents   | stress (physiology) . acceleration stresses (physiology) centrifuging stress  |
| UF absorption coefficient   | ∞ agents<br>catalysts<br>retardants  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration  |
| UF absorption coefficient absorptive index  | ∞ agents catalysts retardants  ∞ acceleration  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics)   |
| UF absorption coefficient absorptive index GS electromagnetic properties  | ∞ agents     catalysts     retardants      acceleration  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine  |
| UF absorption coefficient absorptive index GS electromagnetic properties optical properties   | ∞ agents     catalysts     retardants      acceleration  SN (USE OF A MORE SPECIFIC TERM IS     RECOMMENDED—CONSULT THE TERMS     LISTED BELOW)  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity   |
| UF absorption coefficient absorptive index GS electromagnetic properties optical properties absorptivity  | ∞ agents     catalysts     retardants      acceleration      SN (USE OF A MORE SPECIFIC TERM IS  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics   |
| UF absorption coefficient absorptive index GS electromagnetic properties . optical properties . absorptivity RT ∞ absorption  | ∞ agents     catalysts     retardants       acceleration      SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)      DEF The time rate of change of velocity.      RT acceleration (physics)   | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness   |
| UF absorption coefficient absorptive index GS electromagnetic properties optical properties absorptivity RT ∞ absorption Beer law   | ∞ agents     catalysts     retardants      acceleration      SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.—CONSULT THE TERMS LISTED BELOW)      DEF The time rate of change of velocity.      RT acceleration (physics)     acceleration protection  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness gravitational effects   |
| UF absorption coefficient absorptive index GS electromagnetic properties optical properties absorptivity RT ∞ absorption Beer law Bouguer law   | ∞ agents     catalysts     retardants      acceleration      SN (USE OF A MORE SPECIFIC TERM IS  | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness gravitational effects gravitational physiology  |
| UF absorption coefficient absorptive index GS electromagnetic properties optical properties absorptivity RT ∞ absorption Beer law Bouguer law density (mass/volume)   | <ul> <li>         agents         catalysts         retardants     </li> <li>         acceleration         SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)         DEF The time rate of change of velocity.         RT acceleration (physics)         acceleration protection         acceleration stresses (physiology)         ∞ accelerators     </li> </ul>  | stress (physiology) . acceleration stresses (physiology) centrifuging stress  RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness gravitational effects gravitational physiology gravity perception                                |
| UF absorption coefficient absorptive index GS electromagnetic properties . optical properties . absorptivity RT ∞ absorption Beer law Bouguer law density (mass/volume) electromagnetic absorption                            | <ul> <li>∞ agents         catalysts         retardants</li> <li>∞ acceleration         SN (USE OF A MORE SPECIFIC TERM IS             RECOMMENDED—CONSULT THE TERMS             LISTED BELOW)         DEF The time rate of change of velocity.         RT acceleration (physics)             acceleration protection             acceleration stresses (physiology)             ∞ accelerators             angular acceleration</li> </ul> | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness gravitational effects gravitational physiology gravity perception head movement                   |
| UF absorption coefficient absorptive index GS electromagnetic properties . optical properties . absorptivity RT ∞ absorption Beer law Bouguer law density (mass/volume) electromagnetic absorption Kirchhoff law of radiation | ∞ agents     catalysts     retardants      acceleration      SN (USE OF A MORE SPECIFIC TERM IS         RECOMMENDEDCONSULT THE TERMS     LISTED BELOW)      DEF The time rate of change of velocity.     acceleration (physics)     acceleration protection     acceleration stresses (physiology)     ∞ accelerators     angular acceleration     catalysis   | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness gravitational effects gravitational physiology gravity perception head movement high acceleration |
| UF absorption coefficient absorptive index GS electromagnetic properties . optical properties . absorptivity RT ∞ absorption Beer law Bouguer law density (mass/volume) electromagnetic absorption                            | <ul> <li>∞ agents         catalysts         retardants</li> <li>∞ acceleration         SN (USE OF A MORE SPECIFIC TERM IS             RECOMMENDED—CONSULT THE TERMS             LISTED BELOW)         DEF The time rate of change of velocity.         RT acceleration (physics)             acceleration protection             acceleration stresses (physiology)             ∞ accelerators             angular acceleration</li> </ul> | stress (physiology) . acceleration stresses (physiology) centrifuging stress RT ∞ acceleration acceleration (physics) aerospace medicine artificial gravity body kinematics dizziness gravitational effects gravitational physiology gravity perception head movement                   |

physiological acceleration validity disasters transverse acceleration emergencies acceptance explosions acceleration tolerance USE acceptability fires (LIMITED TO ABILITY OF ORGANISMS TO WITHSTAND ACCELERATION-FOR EFFECTS ON EQUIPMENT, USE SHOCK RESISTANCE AND MECHANICAL SHOCK) tolerances (physiology)
. acceleration tolerance first aid acceptor materials hazards semiconductors (materials) industrial safety GS acceptor materials injuries carrier density (solid state) sabotage blackout (physiology) electrons safety blackout prevention holes (electron deficiencies) safety devices ∞ materials traffic centrifuging stress wreckage gravitational effects access control gravity perception DEF Hardware or software features, operatacclimatization high acceleration ing procedures, or management procedures de-DEF The adjustments of a human body or human centrifuges signed to permit authorized access to a comother organism to a new environment; the bodily human tolerances puter system. changes which tend to increase efficiency and ∞ resistance communication networks reduce energy loss. Used for deacclimatization. computer information security deacclimatization UF ∞ accelerators computer security GS adaptation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS ∞ control acclimatization LISTED BELOW)

Machines that ionize gases and elecdata transmission . . altitude acclimatization . . cold acclimatization firewalls (computers) trically accelerate the ions onto targets. intrusion detection (computers) . . heat acclimatization RT accelerating agents multiple access homeostasis acceleration multiplexing liquid breathing coaxial plasma accelerators radio communication stress (biology) cyclic accelerators telecommunication stress (physiology) Cyclops plasma accelerator tolerances (physiology) electron accelerators access time geocyclotrons GS accommodation Hall accelerators access time RT adaptation hypervelocity guns data processing correction ion accelerators rates (per time) eye (anatomy) linear accelerators time constant focusing mass drivers ∞ time response visual accommodation Nimrod accelerator transmission rate (communications) particle accelerator targets accommodation coefficient particle accelerators accessories DEF The ratio of the average energy actually transferred between a surface and impingplasma accelerators UF attachments racetracks (particle accelerators) ing gas molecules which are scattered by the RT ∞ components railgun accelerators extensions surface to the average energy which would theoretically be transferred if the impinging molram accelerators fittings SEPAC (payload) inserts ecules reached complete thermal equilibrium storage rings (particle accelerators) subassemblies with the surface before leaving the surface. synchrophasotrons Used for thermal accommodation coefficients. Van de Graaff accelerators accident investigation UF thermal accommodation coefficients investigation GS coefficients accelerometers . accident investigation accommodation coefficient Transducers which measure accelera-. aircraft accident investigation RT heat transfer coefficients tion or gravitational forces capable of imparting accidents acceleration. automobile accidents accounting GS measuring instruments wreckage The practice and system of recording . accelerometers and summarizing business and financial trans-. strain gage accelerometers accident prevention actions, and reporting as well as verifying and acceleration (physics) precautions analyzing their results. acceleration measurement GS prevention RT budgeting gravimeters accident prevention costs gravimetry RT accidents finance gyroscopic pendulums aerospace safety mechanical measurement air bag restraint devices accretion pendulums automobile accidents USE deposition seismographs avoidance shock measuring instruments accretion disks fire prevention speed indicators DEF Rotation disks of matter surrounding hazards thrust measurement protection an astronomical object, such as a star, galactic velocity measurement safety nucleus, black hole, etc., which is accumulated vibration meters safety devices gravitationally by the object. safety management astrophysics acceptability situational awareness binary stars warning acceptance black holes (astronomy) RT accelerated life tests warning systems compatibility cooling flows (astrophysics) evaluation accident proneness disks (shapes) examination safety devices eclipsing binary stars figure of merit safety factors galactic nuclei gravitational binding energy inspection performance tests accidents protoplanetary disks proving quality control accidents rotating disks GS . aircraft accidents stellar mass accretion . . bird-aircraft collisions superhumps (astronomy) rejection reliability automobile accidents x ray binaries risk loss of coolant samples accident investigation accumulations standards accident prevention RT acquisition agglomeration suitability air bag restraint devices

crash injuries

crashes

destruction

∞ tests

tolerances (mechanics)

total quality management

assemblies

coagulation

collection

concentrating ergy Efficiency program and energy efficiency . . acetylacetone deposition transport program. . acetylsalicylic acid filling Aircraft Energy Efficiency program acetic acid growth Energy Efficiency Transport program acetylation increasing GS programs aldehydes . NASA programs ∞ chemical compounds input nucleation . . ACEÉ program esters settling aircraft engines stockpiling combustion efficiency acetylacetone GS ketones acetaldehyde accumulators . acetylacetone GS aldehydes Devices or apparatus that accumulate organic compounds . acetaldehyde or store. Used for collectors. . acetyl compounds collectors acetylacetone acetals GS accumulators acetone ethers GS . accumulators (computers) pentanone . acetals . dust collectors solar collectors acetanilide acetylation anodes phenacetin Substitution of an acetyl radical for an concentrators active hydrogen. Specifically, formation of cellu-GS nitrogen compounds entrapment . amides lose acetate from cellulose. Used for acetation. fuel systems . . acetanilide acetation pressure vessels chemical reactions pressurizing acetates . acylation acetates . acetylation GS accumulators (computers) . cobalt acetates acetyl compounds In computer technology, devices which lead acetates store a number and upon receipt of another sodium chlorodifluoroacetates number add it to the number already stored and acetylcholine triacetin (added August 2004) store the sum. acetic acid DEF A major neurotransmitter in verte-GS accumulators acetylsalicylic acid brates at neuromuscular junctions, autonomic . accumulators (computers) esters ganglia, parasympathetic effector junctions, a computer components ethylenediaminetetraacetic acids subset of sympathetic effector junctions, and at . computer storage devices many sites in the central nervous system. . . registers (computers) acetation GS neurotransmitters . accumulators (computers) USE acetylation . acetylcholine RT adding circuits organic compounds counters acetazolamide . amines ∞ equipment GS nitrogen compounds . . acetylcholine neuromuscular transmission . amides accuracy . acetazolamide synapses The degree of agreement of the meaorganic compounds vasodilator agents surements with the true value of the magnitude . cyclic compounds of the quantity measured. Used for error band . . heterocyclic compounds and fidelity. . . . azoles acetylene UF error band ... acetazolamide GS organic compounds fidelity carbonic anhydrase . hydrocarbons GS accuracy ... aliphatic hydrocarbons diuretics geodetic accuracy . . . alkynes . geometric accuracy angular resolution . . . acetylene acetic acid RT cyanoacetylene GS acids calibrating hydrocarbon fuels . carboxylic acids consistency . . fatty acids oxyacetylene correction definition . . . . ethylenediaminetetraacetic acids acetylsalicylic acid drift (instrumentation) ... iodoacetic acid ÚF ASA dynamic characteristics organic compounds GS acids errors . carboxylic acids . carboxylic acids high resolution . . fatty acids . . fatty acids hysteresis ... acetic acid . . acetylsalicylic acid linearity . . . . ethylenediaminetetraacetic acids organic compounds ∞ measurement . . . iodoacetic acid . acetyl compounds miss distance RT acetates acetylsalicylic acid precision acetyl compounds carboxylic acids quality . . fatty acids triacetin range errors ... acetylsalicylic acid acetates reliability acetone resolution GS ketones salicylates sequential control acetone standards RT acetylacetone achievement surveys pentanone ∞ tests completeness tolerances (mechanics) goals acetonitrile learning validity ethane nitrile virtual properties methyl cyanide cyanides achondrites ACE satellite . acetonitrile GS celestial bodies (added December 1999) methyl compounds . meteorites USE Advanced Composition Explorer . . stony meteorites . acetonitrile . . . achondrites nitrogen compounds . nitriles .... Bondoc meteorite ACEE program A NASA program started in 1975 to . acetonitrile chassignites reduce fuel consumption for transport aircraft organic compounds . . . . Kapoeta achondrite through the study of structural and aerodynamic . nitriles nakhlites energy efficiency as well as engine energy effi-. . acetonitrile . . . Norton County achondrite ciency consisting of engine component improve-ment, new energy efficient engines, and ad-vanced turbopropellers. The acronym stands for

acetyl compounds

organic compounds

acetyl compounds

shergottites SNC meteorites

. . . ureilites

RT chondrites

aircraft energy efficiency. Used for Aircraft En-

|                | iron meteorites  |   | palmitic acid   |  | transmission lines  |
|----------------|--|---|---|--|---|
| acid ba        | se equilibrium   |   | propionic acid  | 0.001104   | dataction   |
|                | chemical equilibrium   |   | sebacic acid valeric acid   |  | detection sound detecting and ranging   |
|                | . acid base equilibrium  |   | abscisic acid   | 002  | ocania actorning ania ranging   |
| RT ∝           | equilibrium  |   | folic acid  | acousti  |   |
|                | homeostasis<br>pH  |   | formhydroxamic acid   | GS   | ducts . acoustic ducts  |
|                | pH factor  |   | formic acid Hexogenes (trademark)   | RT   | grazing flow  |
|                | stabilization  |   | lactic acid   |  | noise reduction   |
|                | thermodynamic equilibrium  |   | lysine  |  | spatial marching  |
| acid rai       | n  |   | nicotinic acid  | acousti  | c emission  |
| DEF            | Low pH rainfall resulting from atmo-   |   | oxalic acid oxamic acids  |  | The stress and pressure waves gener-  |
|                | reactions of aerosols containing chlo-   |   | tryptophan  |  | ing dynamic processes in materials and  |
| rides an<br>GS | d sulfates (or other negative ions).   |   | . chromic acid  |  | assessing structural integrity in ma-   |
| GS             | precipitation (meteorology) . rain   |   | . cyanuric acid . cytidylic acid  | chined p<br>GS                                   | emission  |
|                | . acid rain  |   | . hydrazoic acid  |  | . acoustic emission   |
| RT             | air pollution  |   | . hydrobromic acid  | RT   | acoustic measurement  |
|                | atmospheric chemistry atmospheric moisture   |   | . hydrochloric acid   |  | crack propagation failure analysis  |
|                | clouds (meteorology)   |   | hydrocyanic acid     hydrofluoric acid  |  | fatigue testing machines  |
|                | dew  |   | . nitric acid   |  | nondestructive tests  |
|                | meteorology  |   | . nucleic acids   |  | stress waves  |
|                | pH<br>rainstorms   |   | deoxyribonucleic acid   | acoustic   | c excitation  |
|                | snow   |   | complementary DNA ribonucleic acids   | DEF  | The process of inducing vibration in a  |
|                | sulfur oxides  |   | . indoleacetic acids  |  | e by exposure to sound waves.   |
| ooiditu        |  |   | . oxidase   | GS   | excitation . wave excitation  |
| acidity<br>GS  | chemical properties  |   | . perchloric acid   |  | . acoustic excitation   |
|                | . acidity  |   | . phosphoric acid<br>. sulfonic acid  | RT   | acoustic coupling   |
| RT             | hydrogen ions  |   | . sulfuric acid   |  | acoustic resonance  |
|                | ion concentration  |   | . thymidine   |  | acoustics   |
|                | pH<br>titration  |   | . thymine<br>. uric acid  |  | sound amplification surface noise interactions  |
|                |  |   | . uridylic acid   |  | thermoacoustic effects  |
| acidosi        |  |   | . xanthic acids   |  | - 6-41  |
| DEF            | Reduction of alkali reserves due to an of acid metabolites.  | RT  | adrenocorticotropin (ACTH)  | UF   | c fatigue<br>sonic fatigue  |
| RT             | alkalosis  |   | anhydrides<br>hydrogen compounds  | GS   | fatigue (materials)   |
|                | hyperventilation   |   | inorganic compounds   |  | acoustic fatigue  |
|                | pH pH factor   | 0   | oxygen compounds  | RT   | acoustics   |
|                |  |   |   |  |   |
|                | ·  |   |   | acousti  | c frequencies   |
|                | toxicity   | acousti   | c attenuation   | <b>acousti</b> e<br>UF                           | c frequencies<br>sound frequencies  |
| acids          | toxicity   | <b>acousti</b><br>GS  | c attenuation attenuation   |  | sound frequencies<br>frequencies  |
| acids<br>GS    | toxicity   |   | attenuation . wave attenuation  | UF   | sound frequencies<br>frequencies<br>acoustic frequencies  |
|                | toxicity   |   | attenuation . wave attenuation . acoustic attenuation   | UF   | sound frequencies<br>frequencies  |
|                | acids . amino acids . alanine phenylalanine  |   | attenuation . wave attenuation  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies . screech tones  |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid  | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics  | UF   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies . screech tones acoustic measurement   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine   | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies screech tones acoustic measurement acoustic properties   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid  | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies . screech tones acoustic measurement   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid   | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine   | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine . glycine   | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies . quefrencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine   | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies . quefrencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves  |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine   | GS  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation   | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies . uquefrencies . screech tones acoustic measurement acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies  |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine norleucine  | GS<br>RT  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies . quefrencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation  |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine   | GS<br>RT<br>acoustic  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  | UF<br>GS   | sound frequencies frequencies . acoustic frequencies . audio frequencies . uquefrencies . screech tones acoustic measurement acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies  |
|                | toxicity  acids . amino acids . alanine phenylalanine aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine norleucine . lysine . melanoidin . methionine   | GS<br>RT<br>acoustic  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  | UF<br>GS<br>RT                                   | sound frequencies frequencies . acoustic frequencies . audio frequencies . audio frequencies . quefrencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes   |
|                | toxicity  acids . amino acids . alanine phenylalanine aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . thyroxine   | GS<br>RT<br>acoustic<br>USE   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion stability   | UF<br>GS<br>RT                                   | sound frequencies frequencies . acoustic frequencies . audio frequencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . tryptophan  | GS<br>RT<br>acoustic<br>USE<br>acousti  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion combustion stability c coupling   | UF<br>GS<br>RT<br>acoustic<br>USE                | sound frequencies frequencies acoustic frequencies audio frequencies audio frequencies acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  generators sound generators  |
|                | toxicity  acids . amino acids . alanine phenylalanine aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . thyroxine   | GS<br>RT<br>acoustic<br>USE<br>acousti  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion stability   | UF<br>GS<br>RT<br>acoustic<br>USE<br>acoustic    | sound frequencies frequencies . acoustic frequencies . audio frequencies . audio frequencies . quefrencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes   |
|                | toxicity  acids . amino acids . alanine phenylalanine aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . tryptophan . tyrosine amobarbital . ascorbic acid   | acoustic<br>USE<br>acousti<br>(adde<br>GS   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion stability  c coupling ed September 1988) coupling . acoustic coupling   | acoustic<br>USE<br>acoustic<br>(adde             | sound frequencies frequencies . acoustic frequencies . audio frequencies . audio frequencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  c generators sound generators c imaging ad February 1993) imaging techniques   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . thyroxine . tryptophan . tyrosine . amobarbital . ascorbic acid . boric acid . boric acids  | acoustic<br>USE<br>acoustif<br>(adde  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic coupling acoustic coupling acoustic attenuation  | acoustic<br>USE<br>acoustic<br>(adde             | sound frequencies frequencies acoustic frequencies audio frequencies quefrencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes e generators sound generators c imaging ad February 1993) imaging techniques . acoustic imaging   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . tryptophan . tryptophan . tyrosine amobarbital ascorbic acid boric acids butyric acid   | acoustic<br>USE<br>acousti<br>(adde<br>GS   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion combustion stability  c coupling ad September 1988) coupling acoustic coupling acoustic attenuation acoustic attenuation acoustic excitation  | acoustic<br>USE<br>acoustic<br>(adde             | sound frequencies frequencies acoustic frequencies addition addition addition acoustic resource acoustic measurement acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies subaudible frequencies subaudible frequencies acoustic radiation whispering gallery modes acoustics acoustic radiation acoustic radiation acoustic radiation acoustic radiation acoustic imaging   |
|                | toxicity  acids . amino acids . alanine phenylalanine aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamire . glycine . hippuric acid . histidine . leucine . norleucine . ylysine . melanoidin . methionine . tryptophan . tryptophan . tryrosine amobarbital ascorbic acid boric acid butyric acid carbonylic acid carboxylic acid  | acoustic<br>USE<br>acousti<br>(adde<br>GS   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic coupling acoustic coupling acoustic attenuation  | acoustic<br>USE<br>acoustic<br>(adde<br>GS       | sound frequencies frequencies . acoustic frequencies . audio frequencies . audio frequencies quefrencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  c generators sound generators c imaging def February 1993) imaging techniques . acoustic imaging . acoustical holography acoustic measurement acoustic scattering  |
|                | toxicity  acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid glutamine glycine hippuric acid histidine leucine norleucine tysine melanoidin methionine tryptophan tyrosine amobarbital ascorbic acid boric acid carbonylic acid carbonylic acid carbonylic acid  | acoustic<br>USE<br>acousti<br>(adde<br>GS   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion stability  c coupling acoustic coupling acoustic attenuation acoustic excitation acoustic excitation acoustics energy transfer sound waves  | acoustic<br>USE<br>acoustic<br>(adde<br>GS       | sound frequencies frequencies acoustic frequencies audio frequencies audio frequencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  c generators sound generators c imaging de February 1993) imaging techniques . acoustic imaging acoustical holography acoustic measurement acoustic scattering nondestructive tests  |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . thyroxine . tryptophan . tyrosine . amobarbital ascorbic acid boric acid boric acid carboxylic acid . acrylic acid . acylic acid . alanine  | acoustic<br>USE<br>acousti<br>(adde<br>GS   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion combustion stability  c coupling ad September 1988) coupling acoustic coupling acoustic attenuation acoustic attenuation acoustics energy transfer  | acoustic<br>USE<br>acoustic<br>(adde<br>GS       | sound frequencies frequencies . acoustic frequencies . audio frequencies . audio frequencies quefrencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  c generators sound generators c imaging def February 1993) imaging techniques . acoustic imaging . acoustical holography acoustic measurement acoustic scattering  |
|                | toxicity  acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid glutamine glycine hippuric acid histidine leucine norleucine tysine melanoidin methionine tryptophan tyrosine amobarbital ascorbic acid boric acid carbonylic acid carbonylic acid carbonylic acid  | acoustic<br>USE<br>acousti<br>(adde<br>GS   | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound combustion stability  c coupling acoustic coupling acoustic attenuation acoustic excitation acoustic excitation acoustics energy transfer sound waves  | acoustic<br>USE<br>acoustic<br>(adde<br>GS       | sound frequencies frequencies acoustic frequencies audio frequencies audio frequencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  c generators sound generators c imaging de February 1993) imaging techniques . acoustic imaging acoustical holography acoustic measurement acoustic scattering nondestructive tests  |
|                | toxicity  acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid glutamic acid histidine leucine norleucine yiysine melanoidin methionine tryptophan tyrosine amobarbital ascorbic acid boric acid carbonylic acid carbonylic acid carbonylic acid carboxylic acid carboxylic acid alanine phenylalanine aspartic acid citric acid citric acid   | acoustic USE  acoustic (adde GS RT  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic caupling acoustic attenuation acoustic attenuation acoustic excitation acoustics energy transfer sound waves wave interaction  | acoustic<br>USE<br>acoustic<br>(adde<br>GS       | sound frequencies frequencies acoustic frequencies . audio frequencies . audio frequencies . audio frequencies . audio frequencies . cupefrencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes count generators count generators count generators count generators count generators acoustic imaging . acoustical holography acoustic measurement acoustic scattering nondestructive tests ultrasonic flaw detection count generators |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . thyroxine . tryptophan . tyrosine . amobarbital . ascorbic acid . boric acid . boric acid . carboxylic acid . acrylic acid . acrylic acid . acylic acid . acylic acid . acylic acid . alanine . phenylalanine . aspartic acid . citric acid . citric acid . dicarboxylic acids . dicarboxylic acids . dicarboxylic acid . carboxylic acid . carboxylic acid . carboxylic acid . dicarboxylic acid . dicarboxylic acid . dicarboxylic acid . dicarboxylic acids . dicarboxylic acid  | acoustic USE  acoustic (adde GS RT  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling ad September 1988) coupling acoustic coupling acoustic attenuation acoustic excitation acoustic excitation acoustics energy transfer sound waves wave interaction  c delay lines Devices used in a communications link  | acoustic<br>USE<br>acoustic<br>(adde<br>GS<br>RT | sound frequencies frequencies acoustic frequencies audio frequencies audio frequencies quefrencies quefrencies screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  c imaging ad February 1993) imaging techniques acoustic imaging acoustic imaging nondestructive tests ultrasonic flaw detection  c impedance acoustic properties acoustic impedance  |
|                | acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid plycine hippuric acid histidine leucine norleucine tyrytophan tyroxine amobarbital ascorbic acid boric acid aspartic acid carboxylic acid aspartic acid aspartic acid bristidine controlleucine contro | acoustic USE  acoustic (adde GS RT  acoustic DEF or a co  | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion stability  c coupling ad September 1988) coupling acoustic attenuation acoustic excitation acoustic excitation acoustics energy transfer sound waves wave interaction  c delay lines  Devices used in a communications link mputer memory in which the signal is   | acoustic<br>USE<br>acoustic<br>(adde<br>GS<br>RT | sound frequencies frequencies acoustic frequencies adoustic frequencies adoustic frequencies adoustic properties acoustic resonance acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies subaudible frequencies ultrasonic radiation whispering gallery modes  c generators c imaging ad February 1993) imaging techniques acoustic imaging acoustic measurement acoustic scattering nondestructive tests ultrasonic flaw detection c impedance acoustic impedance impedance impedance  |
|                | toxicity  acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid glutamic acid histidine leucine norleucine yiysine melanoidin methionine tryptophan tyrosine amobarbital ascorbic acid butyric acid carbonic acid carbonic acid bric acid citric acid cathoxylic acids fatty acids fatt | acoustic USE  acoustic (addd GS RT  acousti DEF or a co delayed Used fo                             | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling ad September 1988) coupling acoustic attenuation acoustic attenuation acoustic attenuation acoustic senergy transfer sound waves wave interaction  c delay lines  Devices used in a communications link mputer memory in which the signal is by the propagation of sound waves. r sonic waveguides.                         | acoustic<br>USE<br>acoustic<br>(adde<br>GS<br>RT | sound frequencies frequencies acoustic frequencies audio frequencies audio frequencies audio frequencies audio frequencies audio frequencies audio frequencies acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes generators sound generators c imaging a February 1993) imaging techniques acoustic imaging acoustical holography acoustic measurement acoustic scattering nondestructive tests ultrasonic flaw detection c impedance acoustic impedance impedance acoustic impedance acoustic impedance acoustics   |
|                | toxicity  acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid glutamine glycine hippuric acid histidine leucine norleucine typiophan tryptophan tyroxine amobarbital ascorbic acid boric acid boric acid carboxylic acid carboxylic acid alanine phenylalanine appartic acid clicaric acid carboxylic acid coltric acid citric acid   | acoustic USE  acoustic (adde GS RT  acousti (adde GS RT  use acousti OEF or a co delayed Used fo UF | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic coupling acoustic attenuation acoustic excitation acoustic excitation acoustics energy transfer sound waves wave interaction  c delay lines Devices used in a communications link mputer memory in which the signal is by the propagation of sound waves. r sonic waveguides                                       | acoustic USE acoustic (adde GS RT                | sound frequencies frequencies acoustic frequencies . audio frequencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes a generators c imaging de February 1993) imaging techniques . acoustic imaging . acoustical holography acoustic measurement acoustic scattering nondestructive tests ultrasonic flaw detection c impedance acoustic impedance impedance acoustic impedance acoustics evanescent waves   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamine . glycine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . tryroxine . tryptophan . tyrosine . amobarbital . ascorbic acid . boric acids . butyric acid . carboxylic acids . acylic acid . carboxylic acid . alanine . phenylalanine . aspartic acid . citric acid . dicarboxylic acids . fatty acids . acetic acid ethylenediaminetetraacetic acids iodoacetic acid acetylsalicylic acid . acetylsalicylic acid . acetylsalicylic acid . acetylsalicylic acid   | acoustic USE  acoustic (addd GS RT  acousti DEF or a co delayed Used fo                             | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic attenuation acoustic excitation acoustic excitation acoustic excitation acoustics energy transfer sound waves wave interaction  c delay lines  Devices used in a communications link mputer memory in which the signal is by the propagation of sound waves. r sonic waveguides sonic waveguides delay lines       | acoustic USE acoustic (adde GS RT                | sound frequencies frequencies acoustic frequencies audio frequencies audio frequencies audio frequencies audio frequencies audio frequencies audio frequencies acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes generators sound generators c imaging a February 1993) imaging techniques acoustic imaging acoustical holography acoustic measurement acoustic scattering nondestructive tests ultrasonic flaw detection c impedance acoustic impedance impedance acoustic impedance acoustic impedance acoustics   |
|                | toxicity  acids amino acids alanine phenylalanine aspartic acid cysteine dopa folic acid glutamic acid glutamine glycine hippuric acid histidine leucine norleucine typiophan tryptophan tyroxine amobarbital ascorbic acid boric acid boric acid carboxylic acid carboxylic acid alanine phenylalanine appartic acid clicaric acid carboxylic acid coltric acid citric acid   | acoustic USE  acoustic (adde GS RT  acousti (adde GS RT  use acousti OEF or a co delayed Used fo UF | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic coupling acoustic attenuation acoustic excitation acoustic excitation acoustics energy transfer sound waves wave interaction  c delay lines Devices used in a communications link mputer memory in which the signal is by the propagation of sound waves. r sonic waveguides                                       | acoustic USE acoustic (adde GS RT acoustic GS    | sound frequencies frequencies acoustic frequencies . audio frequencies . screech tones acoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes a generators c imaging de February 1993) imaging techniques . acoustic imaging . acoustical holography acoustic measurement acoustic scattering nondestructive tests ultrasonic flaw detection c impedance acoustic impedance impedance acoustic impedance acoustics evanescent waves   |
|                | toxicity  acids . amino acids . alanine phenylalanine . aspartic acid . cysteine . dopa . folic acid . glutamic acid . glutamic acid . glutamine . leucine . hippuric acid . histidine . leucine . norleucine . lysine . melanoidin . methionine . tryroxine . tryroxine . tryrosine amobarbital ascorbic acid boric acids . butyric acid carboxylic acid . alanine . phenylalanine . aspartic acid . citric acid . dicarboxylic acids . fatty acids . acetic acid . acetic acid . acetic acid . acetylsalicylic acid . benzilic acid  | acoustic USE  acoustic (addd GS RT  acousti DEF or a co delayed Used fo UF GS                       | attenuation . wave attenuation . acoustic attenuation shock wave attenuation acoustic coupling acoustics anechoic chambers atmospheric attenuation bioacoustics grazing flow noise reduction sound amplification wave propagation zero sound  combustion combustion stability  c coupling acoustic coupling acoustic excitation acoustic excitation acoustics energy transfer sound waves wave interaction  c delay lines  Devices used in a communications link mputer memory in which the signal is by the propagation of sound waves. r sonic waveguides delay lines . acoustic delay lines . acoustic delay lines | acoustic USE acoustic (adde GS RT acoustic GS    | sound frequencies frequencies acoustic frequencies adoustic frequencies adoustic frequencies adoustic frequencies adoustic measurement acoustic properties acoustic resonance acoustics frequency ranges noise spectra pressure oscillations resonant frequencies sound waves subaudible frequencies ultrasonic radiation whispering gallery modes  agenerators commander acoustic imaging accustic impedance accustic impedance impedance accustic impedance accustics evanescent waves grazing flow   |

stability acoustic instability

signal fading thermoacoustic effects

#### acoustic levitation

DEF Method by which molten materials in space are suspended during processing experiments in the low gravity environment. Also, the use of very intense sound waves to keep a body suspended, thereby eliminating any container contact.

GS levitation

acoustic levitation

RT buoyancy space processing

#### acoustic measurement

(MEASUREMENT OF PROPERTIES, QUANTITIES OR CONDITIONS ASSOCIATED WITH ELASTIC WAVES) DEF Measurement of properties, quantities, or conditions of acoustical, i.e., mechanical waves. Used for sound measurement.

sound measurement

#### GS acoustic measurement

. noise measurement acoustic emission

acoustic frequencies acoustic imaging

ambience

anechoic chambers

audio frequencies audiometry cepstral analysis

effective perceived noise levels

frequency measurement grazing flow

measurement

mechanical measurement

noise meters

reverberation chambers

seismographs sound pressure sound waves

ultrasonic tests

#### acoustic microscopes

DEF Instruments which use acoustic radiation at microwave frequencies to allow visualiza-tion of microscopic detail exhibited in elastic properties of objects. Used for scanning laser acoustic microscope (SLAM).

scanning laser acoustic microscope (SLAM) UF

GS microscopes

. acoustic microscopes

acoustic propagation imaging techniques microwave frequencies optical equipment photoacoustic microscopy wave propagation

#### acoustic nozzles

RT ∞ nozzles sonic nozzles sound generators

#### acoustic propagation

GS transmission

. wave propagation

acoustic propagation

. . sound propagation RT acoustic microscopes

acoustical holography acoustics elastic waves

 ∞ propagation whispering gallery modes

#### acoustic properties

#### GS acoustic properties

. acoustic impedance

. acoustic instability

. acoustic scattering .. reverberation

. acoustic velocity

. sound intensity

. zero sound

acoustic frequencies

field strength grazing flow Lamb waves

mechanical properties

∞ physical properties

∞ properties ∞ resistance

sound waves wave dispersion

acoustic radiation USE sound waves

#### acoustic resonance

(added June 1997) GS

resonance

. acoustic resonance

acoustic excitation acoustic frequencies acoustics

resonant frequencies

resonant vibration

#### acoustic retrofitting

DEF Modification, especially of aircraft, to effect noise reduction; specifically, the introduction of absorber materials and jet noise silencers.

GS retrofitting

#### acoustic retrofitting

absorbers (materials) aerodynamic noise aircraft design aircraft noise jet aircraft noise mufflers noise reduction propeller noise vibration isolators

#### acoustic scattering

GS acoustic properties

acoustic scattering

. reverberation scattering

. wave scattering

#### . . acoustic scattering . . reverberation

acoustic imaging acoustic sounding

acoustics

deep scattering layers reciprocity theorem

sodar

sound detecting and ranging surface noise interactions underwater acoustics

#### acoustic simulation

GS simulation

environment simulation

. acoustic simulation

elastic waves flight simulation reverberation chambers

#### acoustic sounding

GS sounding

acoustic sounding

acoustic scattering

acoustics Earth atmosphere meteorology rocket sounding rocket vehicles sounding rockets ultrasonic tests underground acoustics upper atmosphere

acoustic stability

USE frequency stability

#### acoustic streaming

DEF Unidirectional flow currents in a fluid that are due to the presence of sound waves.

fluid flow

fluid switching elements fragmentation sound waves

streamlining

#### acoustic velocity

The speed of propagation of sound waves. Used for sonic speed, sound barrier, and sound velocity.

UF sonic speed sound barrier sound velocity acoustic properties

acoustic velocity rates (per time) . acoustic velocity

velocity acoustic velocity

RT ∞ barriers

exhaust velocity Gutenberg zone Mach cones Mach number sonic booms sound pressure subsonic speed supersonic speed transonic speed

acoustic vibrations USE sound waves

#### acoustical holography

sonoholography sound holography

GS imagery . photography

. . holography

. . acoustical holography

imaging techniques . acoustic imaging

. acoustical holography

acoustic propagation imaging techniques

sound waves

wave front reconstruction

DEF The study of sound, including its production, transmission, and effects. Those qualities of an enclosure that together determine its character with respect to distinct hearing. Used for sound.

sound

#### acoustics GS

. aeroacoustics

. bioacoustics

. electroacoustics

geometrical acoustics

. magnetoacoustics . microsonics

. psychoacoustics

underwater acoustics
RT acoustic attenuation acoustic coupling

acoustic excitation acoustic fatigue acoustic frequencies

acoustic impedance acoustic propagation acoustic resonance

acoustic scattering acoustic sounding anechoic chambers

architecture audio tapes auditory perception auditory stimuli auditory tasks comfort earphones

echoes effective perceived noise levels

elastic waves harmonic excitation harmonic generations harmonic oscillation

harmonics hum

infrasonic frequencies Lamb waves

Lame wave equations

loudness

|   | noise (sound)   | RT  | antiseptics  | plutonium  |
|---|---|---|--|--|
|   | noise pollution   | 131   | dyes   | •  |
|   | noise propagation   |   | uyes   | plutonium isotopes   |
|   | noise reduction   | acrohati                                      | cs (aircraft)  | plutonium 238  |
|   |   |   | aerobatics   | plutonium 239  |
|   | octaves   | OOL   | aciobatics   | plutonium 240  |
|   | opacity<br>phonetics  | acrolein                                      | ·c   | plutonium 241  |
|   | •   | GS  | aldehydes  | plutonium 244  |
|   | power spectra<br>science  | 00  | . acroleins  | sergenium  |
| ٥   |   | RT  | toxicity and safety hazard   | uranium  |
|   | simple harmonic motion sonic anemometers  | 131   | toxicity and safety nazard   | uranium isotopes   |
|   |   | acronym                                       |  | uranium 232  |
|   | sound amplification   | USE   | abbreviations  | uranium 233  |
|   | sound fields  | 002   | abbroviations  | uranium 234  |
|   | sound propagation   | ACRV  |  | uranium 235  |
|   | sound transmission  | USE   | Assured Crew Return Vehicle  | uranium 238  |
|   | sound waves   | UUL   | Assured Crew Return Vehicle  |  |
|   | speech  | acrylate                                      | e  | metals   |
|   | stereophonics   | GS  | esters   | actinide series  |
|   | thermoacoustic effects  | 00  | . acrylates  | actinium   |
|   | ultrasonic cleaning   | RT  | resins   | radium   |
|   | ultrasonic scanners   | KI  | Tesins   | radium isotopes  |
|   | ultrasonics   | acrylic a                                     | acid   | radium 226   |
|   | verbal communication  | GS  | acids  | thorium  |
|   | vibration   | GS  |  | thorium isotopes   |
|   | vibration damping   |   | . carboxylic acids   | transuranium elements  |
|   | voice communication   |   | acrylic acid   | americium  |
|   | zero sound  |   | organic compounds  |  |
|   |   |   | . carboxylic acids   | americium isotopes   |
| acousto   | o-optics  |   | acrylic acid   | americium 241  |
| RT  | Bragg cells   |   |  | berkelium  |
|   | crystal optics  | acrylic r                                     |  | californium  |
|   | electro-optics  | UF  | methacrylate resins  | californium isotopes   |
|   | geometrical optics  |   | polyacrylates  | curium   |
|   | imagery   | GS  | plastics   | curium isotopes  |
|   | light modulators  |   | . synthetic resins   | curium 242   |
|   | magneto-optics  |   | addition resins  | curium 244   |
|   | optical properties  |   | acrylic resins   | einsteinium  |
|   | optical switching   |   | resins   | fermium  |
| ۰   | optics  |   | . synthetic resins   | lawrencium   |
|   | photoacoustic microscopy  |   | . addition resins  | mendelevium  |
|   | photoacoustic spectroscopy  |   | acrylic resins   | neptunium  |
|   | thermoacoustic effects  | RT  | latex  | neptunium isotopes   |
|   | tunable filters   |   | polyacrylonitrile  | nobelium   |
|   | turiable inters   |   | thermoplastic resins   | plutonium  |
|   | Spacolahl   |   | '  | •  |
| ACPL (  |   |   |  |  |
| ACPL (  |   | acrvloni                                      | triles   | plutonium isotopes   |
|   | Atmospheric Cloud Physics Lab   | acryloni<br>UF                                |  | plutonium 238  |
|   |   | ÚF  | vinyl cyanide  | plutonium 238<br>plutonium 239   |
| USE   | Atmospheric Cloud Physics Lab (Spacelab)  |   | vinyl cyanide<br>nitrogen compounds  | plutonium 238<br>plutonium 239<br>plutonium 240  |
| USE   | Atmospheric Cloud Physics Lab (Spacelab) d immunodeficiency syndrome  | ÚF  | vinyl cyanide<br>nitrogen compounds<br>. nitriles  | plutonium 238<br>plutonium 239<br>plutonium 240<br>plutonium 241   |
| USE acquire   | Atmospheric Cloud Physics Lab<br>(Spacelab)<br>d immunodeficiency syndrome<br>ad August 1991)   | ÚF  | vinyl cyanide nitrogen compounds . nitriles acrylonitriles   | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244  |
| acquire<br>(add   | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome and August 1991) A condition caused by the human im-  | ÚF  | vinyl cyanide nitrogen compounds . nitriles acrylonitriles polyacrylonitrile   | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 sergenium  |
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| acquire (adda DEF munode body's individu UF GS                      | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ed August 1991)  A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases.  AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition target acquisition accumulations collection  | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles polyacrylonitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles acrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinide . radium . radium . radium . radium . thorium . thorium . thorium isotopes . transuranium elements . americium . americium . americium 241 . berkelium . californium . californium isotopes . curium . curium isotopes . curium . curium isotopes . curium . curium isotopes                                   | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 plutonium 244 sergenium uranium uranium isotopes uranium 232 uranium 233 uranium 234 uranium 235 uranium 238 RT radioactive isotopes radioactive materials transition metals  actinide series compounds californium compounds curium compounds einsteinium compounds plutonium compounds plutonium compounds plutonium compounds plutonium rompounds thorium noxides thorium compounds uranium compounds uranium compounds uranium compounds uranium compounds uranium compounds uranium compounds   |
| acquire (adda DEF munode body's individu UF GS                      | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition accumulations collection detection  | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series  The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinium . radium . radium isotopes radium isotopes thorium thorium isotopes transuranium elements americium americium isotopes arericium 241 . berkelium californium isotopes curium californium isotopes curium curium isotopes  |  |
| acquire (adda DEF munode body's individu UF GS                      | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition acquisition documentation   | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles acrylonitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles acrylonitriles acrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series  The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinide series . actinium . radium . radium . radium . thorium isotopes radium isotopes americium americium jenents . americium americium 241 . berkelium . californium . californium . curium isotopes . curium . curium isotopes . curium 242 curium 244 . einsteinium                                   | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 plutonium 244 plutonium 244 plutonium 232 plutonium 233 puranium 233 puranium 234 puranium 235 puranium 238 puranium compounds purium compounds purium compounds putonium compounds plutonium compounds plutonium dides plutonium oxides plutonium condes plutonium compounds plutonium compounds plutonium compounds plutonium compounds plutonium compounds puranium compounds uranium condes uranium condes puranium compounds uranium condes puranium compounds puranium condes puranium compounds  |
| acquire (adda DEF munode body's individu UF GS                      | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition acquisition data acquisition detection documentation receiving recognition                                      | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles acrylonitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles acrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH) series  The series of elements beginning with element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinide series . actinium . radium . radium . radium . radium sotopes radium 226 . thorium thorium isotopes transuranium elements americium americium 241 . berkelium . californium . californium isotopes curium . curium isotopes curium 242 curium 244  | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 plutonium 244 plutonium 244 plutonium 232 plutonium 233 puranium 233 puranium 234 puranium 235 puranium 238 puranium compounds puranium compounds putonium compounds putonium compounds plutonium compounds plutonium compounds plutonium compounds plutonium puranium sides thorium compounds thorium compounds puranium compounds   |
| acquire (adda DEF munode body's individu UF GS                      | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition acquisition data acquisition detection documentation receiving recognition                                      | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles acrylonitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles acrylonitriles acrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series  The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinide series . actinium . radium . radium . radium . thorium isotopes radium isotopes americium americium jenents . americium americium 241 . berkelium . californium . californium . curium isotopes . curium . curium isotopes . curium 242 curium 244 . einsteinium                                   | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 plutonium 244 plutonium 244 plutonium 232 plutonium 233 puranium 233 puranium 234 puranium 235 puranium 238 puranium compounds purium compounds purium compounds putonium compounds plutonium compounds plutonium dides plutonium oxides plutonium condes plutonium compounds plutonium compounds plutonium compounds plutonium compounds plutonium compounds puranium compounds uranium condes uranium condes puranium compounds uranium condes puranium compounds puranium condes puranium compounds  |
| acquire (adda DEF munode body's individu UF GS                      | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition acquisition data acquisition detection documentation receiving recognition                                      | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinide series . actinium . radium . radium . radium isotopes radium 226 . thorium . thorium isotopes americium americium . americium isotopes americium 241 . berkelium . californium . californium isotopes curium 242 curium 244 . einsteinium . fermium   | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 plutonium 244 plutonium 244 plutonium 232 plutonium 233 puranium 233 puranium 234 puranium 235 puranium 238 puranium compounds puranium compounds putonium compounds putonium compounds plutonium compounds plutonium compounds plutonium compounds plutonium puranium sides thorium compounds thorium compounds puranium compounds   |
| acquire (adda DEF munode body's individu UF GS  RT  acquisi GS  RT  | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition acquisition collection detection documentation receiving recognition ine  | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile   acrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinium . radium . radium . radium . radium i radium . thorium i sotopes radium 226 . thorium thorium thorium isotopes americium americium 241 berkelium californium californium californium isotopes curium curium isotopes curium curium isotopes curium 242 curium 244 einsteinium . fermium . lawrencium          |  |
| acquire (adda DEF munode body's individu UF GS  RT  acquisi GS  RT  | Atmospheric Cloud Physics Lab (Spacelab)  d immunodeficiency syndrome ad August 1991) A condition caused by the human imficiency virus (HIV) attacking the human T-cells, thereby rendering an infected al defenseless against diseases. AIDS (disease) diseases infectious diseases viral diseases acquired immunodeficiency syndrome signs and symptoms acquired immunodeficiency syndrome antibodies hepatitis human immunodeficiency virus immune systems immunology interferon meningitis physiological defenses pneumonia vaccines  tion acquisition data acquisition target acquisition accumulations collection detection documentation receiving recognition ine organic compounds | RT  ACTH USE  actinide DEF actium, I lawrenci | vinyl cyanide nitrogen compounds . nitriles acrylonitriles polyacrylonitrile organic compounds . nitriles polyacrylonitrile organic compounds . nitriles polyacrylonitriles polyacrylonitrile plastics  adrenocorticotropin (ACTH)  series The series of elements beginning with Element No. 89, and continuing through um, Element No. 103. chemical elements . actinide series . actinide series . actinium . radium . radium isotopes radium 226 thorium thorium isotopes transuranium elements . americium americium americium 241 . berkelium . californium isotopes curium californium isotopes curium californium isotopes curium 242 curium 244 . einsteinium . fermium . lawrencium . mendelevium | plutonium 238 plutonium 239 plutonium 240 plutonium 241 plutonium 244 plutonium 244 plutonium 244 plutonium 232 plutonium 233 puranium 233 puranium 234 puranium 235 puranium 238 puranium compounds purium compounds putonium compounds putonium compounds putonium compounds putonium puroides plutonium puroides plutonium puroides plutonium puroides plutonium compounds putonium compounds putoniu  |

. . actinium wastes quasars active glaciers actinographs activation USE glaciers USE actinometers actuation Active Magneto Particle Tracer Explorers
USE AMPTE (satellites) catalysis actinometers deactivation The general name for instruments electromagnetic absorption used to measure the intensity of radiant energy, active satellites

DEF Satellites which transmit a signal, in excitation particularly that of the sun. Used for actinoflotation graphs and emissographs. initiation contrast to passive satellites. ÜF actinographs ionization potentials GS artificial satellites emissographs . active satellites irradiation measuring instruments microwave absorption . . SYNCOM satellites . radiation measuring instruments sensitizing Early Bird satellites . . actinometers SYNCOM 1 satellite SYNCOM 2 satellite starting ... infrared spectrometers stimulation . . . . filter wheel infrared SYNCOM 3 satellite spectrometers SYNCOM 4 satellite ... pyranometers activation (biology) RT Advent Project . . . radiometers RT activation energy Explorer 29 satellite . . . . Dicke radiometers ∞ biology Explorer 36 satellite . . . . infrared detectors ∞ cells geodetic satellites .... FLIR detectors enzymes GEOS 1 satellite . . . . infrared radiometers stimulation GEOS 2 satellite . . . . . Advanced Very High GEOS 3 satellite Resolution Radiometer navigation satellites .... infrared scanners activation analysis NAVSTAR satellites .... visible infrared spin scan DEF A method of chemical analysis, espepassive satellites cially for small traces of materials, based on the radiometer synchronous satellites . . . . . quantum well infrared detection of characteristic radiations following a nuclear bombardment. photodetectors active sites (chemistry) . . . . microwave radiometers activation analysis (added August 2004) . . . . Advanced Microwave Sounding . neutron activation analysis The reactive parts of a molecule that RT ∞ analyzing Unit directly participate in its specific combination . . . . passive L-band radiometers with another molecule. . . . . pressure modulator radiometers UF binding sites activation energy RT activation (biology) . . . . spectroradiometers catalytic sites .... MISR (radiometry)
.... MODIS (radiometry) reactive centers binding energy RT binding energy Damkohler number . . . solar spectrometers catalytic activity electron energy . . . spectroheliographs chemical bonds ∞ energy . . . spectrophotometers enzyme inhibitors heat ... infrared spectrophotometers nuclear binding energy . ultraviolet spectrophotometers active volcanoes nuclear capture ... ultraviolet detectors USE volcanoes proton energy . . . . ultraviolet spectrometers rotons high dispersion spectrographs ∞ activity surface energy . . . . Total Ozone Mapping (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN Spectrometer LISTED BELOW) .... ultraviolet spectrophotometers activity (biology) extravehicular activity active control . . x ray detectors DEF The automatic activation of various dosimeters control surface functions in aircraft. faculae Fabry-Perot spectrometers GS automatic control intravehicular activity field intensity meters . adaptive control radioactivity spectrometers solar activity . . active control aeroservoelasticity RT actinomycetes aircraft control activity (biology) microorganisms biological activity ∞ control . bacteria interactive control RT ∞ activity . . actinomycetes biological effects piezoelectric actuators self adaptive control systems biology actinomycin self alignment catalytic activity GS drugs servomechanisms . antibiotics smart structures activity cycles (biology) . . actinomycin GS cycles activity cycles (biology) active galactic nuclei RT ∞ biology activated carbon galactic nuclei GS circadian rhythms charcoal . active galactic nuclei phenology activated carbon active galaxies photoperiod RT ∞ absorption blazars rhythm (biology) carbon galactic radiation zeitgebers filtration ∞ nuclei hemoperfusion quasars **ACTS** water treatment (ADVANCED COMMUNICATIONS TECHNOLOGY SATELLITE)

Advanced Communications radio galaxies SN Seyfert galaxies activated sludge UF DEF A semiliquid mass removed from the Technology Sat liquid flow of sewage and subjected to aeration active galaxies GS artificial satellites and aerobic microbial action. The end product is celestial bodies . communication satellites dark to golden brown, partially decomposed, . galaxies . ACTS . active galaxies granular and flocculent, and has an earthy odor extremely high frequencies . . . Markarian galaxies when fresh. microwave transmission radio galaxies satellite communication GS sludae activated sludge ... Seyfert galaxies biodegradation active galactic nuclei RT actuation human wastes activation blazars

galactic nuclei

galactic radiation

actuators

excitation

metabolic wastes

sewage

initiation object-oriented programming deformable mirrors nutation feedback control sensitizing AD-A satellite honeycomb mirrors starting USE Explorer 19 satellite imaging techniques stimulation instrument compensation adaptation laser guide stars The adjustment, alteration or modificaoptical correction procedure actuator disks tion of an organism to fit it more perfectly for optical transfer function GS disks (shapes) existence in its environment. ∞ optics actuator disks GS adaptation segmented mirrors RT ∞ disks . acclimatization self adaptive control systems ∞ fans . . altitude acclimatization propellers . . cold acclimatization adatoms . . heat acclimatization (added September 2002) DEF Atoms adsorbed on a solid surface. Adatoms and their associated properties are actuators desert adaptation DEF Mechanisms to activate process con-. retinal adaptation trol equipment, e.g., valves. Used for cartridge . . dark adaptation often exploited in the development of microelecactuated devices, hydraulic actuators, and trig-. light adaptation tronic and nanoelectronic structures. accommodation adsorbed atoms UF cartridge actuated devices acuity GS atoms adatoms hydraulic actuators correction triggers fitting adsorption atomic clusters RT GS actuators hibernation . piezoelectric actuators homeostasis chemisorption RT actuation perception metal surfaces aeroservoelasticity reaction time molecular electronics aircraft hydraulic systems retraining nanostructures (devices) automatic control valves sensitivity nanotechnology thresholds (perception) cams surface diffusion control valves vision controllers adders (circuits) effectors adapters USE adding circuits electroactive polymers Devices or contrivances used or deexplosive devices signed primarily to fit or adjust one thing to adding circuits another. Devices, appliances or the like used to instruments UF adders (circuits) microoptoelectromechanical systems alter something so as to make it suitable for a binary summators missile control use for which it was not originally designed. GS circuits propellant actuated instruments adapters GS . adding circuits regulators . multiple docking adapters computer components servomechanisms RT connectors adding circuits servomotors extensions accumulators (computers) shape control fittings binary integration smart materials joints (junctions) logic circuits solenoids starters adaptive control addition stepping motors adaptive control systems UF RT addition theorem automatic control
adaptive control torque motors GS amount arithmetic . . active control computation number theory acuity DEF . . model reference adaptive control The keeness of ability to detect and self adaptive control systems restoration discriminate. automata theory GS acuity autonomy . visual acuity addition resins  $\infty \, control$ (CARBON CHAIN POLYMERS--FOR HETEROATOM CHAIN POLYMERS, USE POLYETHER RESINS) . hyperopia control theory adaptation cybernetics discrimination plastics dynamic control frequency response . synthetic resins feedback control perception . . addition resins feedforward control sensitivity . . . acrylic resins machine learning thresholds (perception) . . . vinyl copolymers mission adaptive wings resins optimal control acylation . synthetic resins robot control GS chemical reactions . . addition resins sampled data systems acylation . . . acrylic resins self alignment . . . vinyl copolymers crosslinking polybutadiene . acetylation smart structures Friedel-Craft reaction RT adaptive control systems polyethylene terephthalate USE adaptive control AD/I B polyethylenes polyisobutylene USE Explorer 25 satellite adaptive filters polypropylene bandpass filters AD/I satellite polystyrene bandstop filters polyvinyl alcohol polyvinyl chloride USE Explorer 24 satellite electric filters electromagnetic wave filters synthesis (chemistry) Ada (programming language) ∞ filters synthetic fibers DEF A programming language based on PASCAL, originally developed on behalf of the IIR filters linear filters vulcanized elastomers US Department of Defense for use in embedded optical filters computer systems. It is named Ada in honor of space-time adaptive processing addition theorem Augusta Ada Byron, countess of Lovelace, pritracking filters GS number theory marily due to the fact that she was the assistant . addition theorem tunable filters and patron of Charles Babbage and is considered the world's first programmer. . addition theorem adaptive optics GS languages DĖF Real-time optical correction for atmo-RT addition programming languageshigh level languages spheric perturbations and other system error sources additives ... Ada (programming language) computer programming embedded computer systems DEF Materials or substances added to something else for a specific purpose. Used for

RT

anisoplanatism atmospheric optics computer techniques

doping (additives).

| UF<br>GS | doping (additives) additives           | adenosine diphosphate                    | interfacial energy<br>internal pressure          |
|----------|--|--|--|
| 00       | . admixtures                           | adenosine monophosphate                  | ∞ joining  |
|          | . antifreezes                          | (added August 2004)                      | metal bonding                                    |
|          | . antiicing additives                  | DEF Adenine nucleotide containing one    | peeling  |
|          | . antiknock additives                  | phosphate group.                         | sealing  |
|          | . antioxidants                         | UF adenylic acid                         | spreading  |
|          | . oil additives                        | AMP (biochemistry)                       | tackiness  |
|          | . opacifiers                           | GS organic compounds                     | traction   |
|          | . plasticizers                         | . cyclic compounds                       | wettability                                      |
|          | . propellant additives                 | heterocyclic compounds                   |  |
|          | propellant binders                     | adenosines                               | adhesion tests                                   |
| DT.      | solid rocket binders                   | adenosine monophosphate<br>. nucleotides | UF adherometers                                  |
| IXI •    | alloying                               | adenosines                               | Fokker bond testers RT adhesion                  |
|          | antimisting fuels                      | adenosine monophosphate                  | bonding  |
|          | binders (materials)                    | phosphorus compounds                     | nondestructive tests                             |
|          | carrier injection                      | . phosphates                             | ∞ tests  |
|          | catalysts                              | adenosine monophosphate                  | wettability                                      |
|          | coatings                               | RT adenosine triphosphate                |  |
|          | diluents                               | cyclic AMP                               | adhesive bonding                                 |
|          | dopes                                  | deoxyribonucleic acid                    | GS bonding                                       |
|          | doping (materials)                     | metabolism                               | adhesive bonding                                 |
|          | fillers high energy fuels              | adenosine triphosphate                   | RT adhesion                                      |
|          | inhibitors                             | UF ATP                                   | agglutination<br>bonded joints                   |
|          | interstitials                          | GS organic compounds                     | cementation                                      |
|          | lubricants                             | . coenzymes                              | fiber pullout                                    |
|          | majority carriers                      | adenosine triphosphate                   | ∞ joining  |
|          | minority carriers                      | . cyclic compounds                       | metal bonding                                    |
|          | modulation doping                      | heterocyclic compounds                   | metal-metal bonding                              |
|          | neutralizers                           | adenosines                               | resin bonding                                    |
|          | neutron transmutation doping           | adenosine triphosphate                   | sealing  |
|          | pigments                               | . nucleotides                            |  |
|          | preservatives                          | adenosines<br>adenosine triphosphate     | adhesives  |
|          | retardants<br>solvents                 | phosphorus compounds                     | UF binders (adhesives)                           |
|          | stabilizers (agents)                   | . phosphates                             | GS adhesives                                     |
|          | suppressors                            | adenosine triphosphate                   | . glues  |
|          | tetrahydrofuran                        | RT adenosine monophosphate               | . pastes<br>. tetraethyl orthosilicate           |
|          | thickeners (materials)                 | amino acids                              | RT agglutination                                 |
|          | traveling solvent method               | myosins                                  | alkyd resins                                     |
|          | vinyl copolymers                       |  | binders (materials)                              |
|          | -1                                     | adenosines                               | cements  |
| address  |  | GS organic compounds . cyclic compounds  | epoxy resins                                     |
| RT       | coding computer programming            | heterocyclic compounds                   | fasteners  |
|          | computer programming                   | adenosines                               | furan resins                                     |
| adducts  | s                                      | adenosine diphosphate                    | joints (junctions)                               |
| DEF      |  | adenosine monophosphate                  | metal-metal bonding                              |
| bonds,   | e.g., occlusive or Van der Waal bonds. | adenosine triphosphate                   | phenolic epoxy resins plastic tapes              |
| RT ∘     | ∞ chemical compounds                   | cyclic AMP                               | sealers  |
|          |  | . nucleotides                            | seams (joints)                                   |
| Aden     | Courth and Vancou                      | adenosines                               | ∞ tapes  |
| USE      | Southern Yemen                         | adenosine diphosphate                    | •  |
| adenine  | PS                                     | adenosine monophosphate                  | ADI methods                                      |
| GS       | bases (chemical)                       | adenosine triphosphate<br>cyclic AMP     | USE alternating direction implicit               |
|          | . adenines                             | RT oligonucleotides                      | methods  |
|          | organic compounds                      | ··· ongonacioulado                       |  |
|          | carbohydrates                          | adenosinetriphosphatase                  | adiabatic conditions                             |
|          | glucosides                             | (added August 2004)                      | GS conditions . adiabatic conditions             |
|          | nucleosides                            | RT myosins                               | RT Carnot cycle                                  |
|          | adenines                               | The second second                        | compressing                                      |
|          | . cyclic compounds                     | adenoviruses GS microorganisms           | enthalpy   |
|          | heterocyclic compounds purines         | GS microorganisms . viruses              | environments                                     |
|          | adenines                               | adenoviruses                             | expansion  |
|          | . nucleotides                          | adonovn dood                             | isentrope  |
|          | adenines                               | adenylic acid                            | isoenergetic processes                           |
|          | phosphorus compounds                   | (added December 2004)                    | isothermal processes                             |
|          | . phosphates                           | USE adenosine monophosphate              | polytropic processes                             |
|          | adenines                               |  | temperature                                      |
| RT       | ribonucleic acids                      | adequacy                                 | thermal environments<br>thermodynamic cycles     |
| adonos   | ino dinhoenhato                        | RT quality                               | thermodynamic equilibrium                        |
| UF       | ine diphosphate  ADP                   | validity                                 |  |
| GS       | organic compounds                      | adherometers                             | adiabatic demagnetization cooling                |
|          | . coenzymes                            | USE adhesion tests                       | DEF Use of paramagnetic salts cooled to          |
|          | . adenosine diphosphate                | -  | the boiling point of helium in a strong magnetic |
|          | . cyclic compounds                     | adhesion                                 | field, then thermally isolated and removed from  |
|          | . heterocyclic compounds               | GS surface properties                    | the field to demagnetize the salts and attain    |
|          | adenosines                             | . adhesion                               | temperatures of 10(-3) K.                        |
|          | adenosine diphosphate                  | stiction                                 | RT magnetic cooling                              |
|          | . nucleotides                          | RT adhesion tests                        | adiabatic aquations                              |
|          | adenosines adenosine diphosphate       | adhesive bonding                         | adiabatic equations<br>RT ∞ equations            |
|          | phosphorus compounds                   | agglutination<br>bonding                 | equations of state                               |
|          | . phosphates                           | cold welding                             | heat transmission                                |
|          | diphosphates                           | fusion (melting)                         | nonadiabatic theory                              |
|          | •                                      |  | •  |

|                | shock waves                                      | RT              | Jupiter (planet)   |                | water treatment   |
|----------------|--|-----------------|--|----------------|---|
| adiabat        | ic flow  | adrenal         | gland  | adsorp         | tivitv  |
|                | fluid flow                                       | GS              | anatomy  |                | surface properties  |
|                | . adiabatic flow                                 |                 | . glands (anatomy)   | D.T.           | adsorptivity  |
| RT             | stagnation temperature                           |                 | endocrine glands<br>adrenal gland  | RT             | adsorption chemical properties  |
| adinos         | e tissues  | RT              | adrenocorticotropin (ACTH)   |                | chemisorption   |
|                | tissues (biology)                                |                 | epinephrine  | ۰              | ophysical properties  |
|                | . connective tissue                              |                 | glucocorticoids  | ماريات         |   |
| DT             | adipose tissues                                  | adrenal         | metabolism   | adults<br>(add | ed August 2004)   |
| RI             | fats   |                 | metabolism   | DEF            |   |
| Adipre         | ne (trademark)                                   |                 | . adrenal metabolism   | maturity       |   |
| GS             | elastomers                                       | RT              | aldosterone<br>corticosteroids   | RT             | children<br>demography  |
|                | . rubber   |                 | cortisone  |                | females   |
|                | synthetic rubbers Adiprene (trademark)           |                 | hydroxycorticosteroid  |                | males   |
|                | raiprono (tradomant)                             | adrenali        | no   |                | parents   |
|                | dack Mountains (NY)                              | USE             | epinephrine  |                | populations<br>youth  |
| GS             | landforms  |                 | The state of the s |                | yean  |
|                | . mountains Adirondack Mountains (NY)            | adrener         |  |                | ed Airborne Command Post  |
| RT             | New York   | UF<br>GS        | sympathomimetics<br>drugs  | USE            | E-4A aircraft   |
|                |  |                 | . adrenergics  | Advanc         | ed Communications Technology Sat  |
| adjoint        |  | RT              | antiadrenergics  | USE            | ACTS  |
| GS             | algebra<br>. vector spaces                       |                 | anticoagulants<br>cyclic AMP   | Δdvano         | ed Composition Explorer   |
|                | matrices (mathematics)                           |                 | Cyclic Alvir   |                | ed December 1999)   |
|                | adjoints   |                 | corticotropin (ACTH)   | DEF            | Explorer spacecraft (launched August  |
| RT             | data processing                                  |                 | ACTH   |                | 7) carrying six high-resolution sensors   |
|                | numerical analysis                               | GS              | secretions . endocrine secretions  |                | ee monitoring instruments for sampling rgy particles of solar origin and high-  |
| adjusti        | ng   |                 | hormones   |                | galactic particles. From a vantage point  |
| UF             | adjustment                                       |                 | pituitary hormones   |                | mately 1/100 of the distance from the   |
| DT             | readjustment                                     | RT              | adrenocorticotropin (ACTH) acids   |                | the Sun, the Advanced Composition (ACE) can perform measurements                |
| RT             | alignment<br>clearances                          | KI              | adrenal gland  |                | vide range of energy and nuclear mass,  |
|                | collimation                                      |                 | amino acids  |                | Il solar wind flow conditions and during  |
|                | correction                                       |                 | proteins   |                | ge and small particle events including  |
|                | fitting<br>focusing                              | Adriatic        | Sea  |                | res. When reporting space weather ACE vide an advance warning of geomag-        |
|                | leveling   |                 | seas   | netic sto      |   |
|                | matching   |                 | . Mediterranean Sea  | UF             | ACE satellite   |
|                | optical correction procedure                     | RT              | Adriatic Sea<br>Italy  | GS             | Explorer 71 satellite   |
|                | positioning revisions                            | KI              | Yugoslavia   | GS             | artificial satellites . scientific satellites                                   |
| c              | ∘ setting  |                 | 3  |                | Explorer satellites   |
|                | smoothing  |                 | d atoms  |                | Advanced Composition  |
| a di vato      | nont.  |                 | ed September 2002)<br>adatoms  | RT             | Explorer energetic particles  |
| adjustn<br>USE |  |                 |  | 111            | galactic cosmic rays  |
|                | ,  | adsorbe         |  |                | interplanetary medium   |
| adminis        |  | DEF<br>sorption | Materials which take up gases by ad-   |                | solar corpuscular radiation solar cosmic rays                                   |
| USE            | management                                       | GS              | sorbents   |                | solar wind  |
| admitta        | nce  |                 | . adsorbents   |                | space weather   |
| USE            |  | RT              | absorbents adsorption  | Advana         | ed EVA Protection Systems   |
|                |  |                 | air conditioning equipment   |                | AEPS  |
| admixt         |  |                 | charcoal   |                |   |
| GS             | additives . admixtures                           |                 | desiccants   |                | ed Launch System (STS)  |
|                | mixtures   |                 | hemoperfusion  |                | ed October 1989)<br>ALS (launch system)   |
| DT             | admixtures                                       | adsorpt         | ion  |                | transportation  |
| RT             | accelerating agents catalysts                    |                 | The adhesion of a thin film of liquid or   |                | . space transportation  |
| c              | ∘ combination                                    |                 | e surface of a solid substance. The solid t combine chemically with the adsorbed   |                | space transportation system Advanced Launch System                              |
|                | concretes  | substan         | ,  |                | (STS)   |
|                | formulations                                     |                 | sorption   | RT             | heavy lift launch vehicles  |
|                | ingredients<br>mixers                            |                 | adsorption   |                | launch vehicle configurations   |
|                | mortars (material)                               | RT ∝            | chemisorption absorption   |                | launch vehicles<br>NASA programs  |
|                | surfactants                                      | 101             | adatoms  |                | NASA space programs   |
| adobe i        | Pate   |                 | adsorbents   |                | payload delivery (STS)  |
| USE            | flats (landforms)                                |                 | adsorptivity beneficiation   |                | reusable launch vehicles<br>Shuttle Derived Vehicles                            |
|                | ,  |                 | bioavailability  |                | space shuttles  |
| ADP            | adamasina diata and as                           |                 | chromatography   |                | spacecraft design   |
| USE            | adenosine diphosphate                            |                 | concentrating  | A al           | and Migrowaya Saunding Unit   |
| Adrasto        | ea   |                 | desorption diffusion   |                | ed Microwave Sounding Unit  |
| (add           | ed January 1996)                                 |                 | electrostatic precipitators  | ĎEF            | A line-scan instrument on the Ad-   |
|                | A natural satellite of Jupiter orbiting at       |                 | elution  |                | TIROS-N (ATN) NOAA K-N series of  |
| a mean<br>GS   | distance of 129,980 kilometers. celestial bodies |                 | gas chromatography gas-metal interactions  |                | anal meteorological satellites. The AMSU of two functionally independent units, |
| 00             | . natural satellites                             |                 | Gibbs adsorption equation  |                | A and AMSU-B. The AMSU-A is de-   |
|                | Jupiter satellites                               |                 | hydrophobicity   | signed         | to measure scene radiance in 15 chan-   |
|                | Adrastea   | ∞               | separation   | nels, ra       | nging from 23. 8 to 89 GHz, to derive   |

atmospheric temperature profiles from the Earth surface to about 3 millibar pressure height. The AMSU-B is designed to measure scene radiance in five channels, ranging from 89 GHz to 183 GHz for the computation of atmospheric water vapor profiles.

AMSU (radiometer) GS measuring instruments

. microwave sensors

#### . . Advanced Microwave Sounding Unit

. radiation measuring instruments

. . actinometers

. . . radiometers

... microwave radiometers

.... Advanced Microwave Sounding Unit

. satellite-borne instruments

. . Advanced Microwave Sounding Unit

microwave equipment

. microwave radiometers
. Advanced Microwave Sounding Unit

atmospheric moisture atmospheric sounding

atmospheric temperature Earth Observing System (EOS)

microwave sounding NOAA satellites remote sensors

satellite sounding

TIROS N series satellites

Advanced Orbiting Solar Observatory USE AOSO

Advanced Range Instrumentation Aircraft

DEF An EC-135 aircraft configured for reception recording and real-time relay of telemetry data.

RT airborne equipment

∞ aircraft

Apollo project C-135 aircraft

data acquisition telemetry

Advanced Range Instrumentation Ship

ARIS instrumentation ship

GS water vehicles

. ships

. . Advanced Range

Instrumentation Ship

RT ∞ instruments

manned space flight network spacecraft tracking

tracking networks

Advanced Reconn Electric Spacecraft

ARES (spacecraft)

interplanetary spacecraft

. Mars probes

. . Advanced Reconn Electric Spacecraft

unmanned spacecraft

. space probes

. . Mars probes

... Advanced Reconn Electric

Spacecraft

RT ∞ spacecraft

advanced sodium cooled reactor

ASCR reactor

GS nuclear reactors

. liquid cooled reactors

. . liquid metal cooled reactors

advanced sodium cooled

reactor

Advanced Solid Rocket Motor (STS)

(added October 1989) ASRM (STS)

engines

. rocket engines

. . booster rocket engines

. . . Space Shuttle Boosters

.... Advanced Solid Rocket Motor (STS)

. . solid propellant rocket engines

... Space Shuttle Boosters

. . . . Advanced Solid Rocket Motor (STS)

Space Shuttle Ascent Stage space transportation system

advanced tactical fighter

USE F-22 aircraft

#### Advanced Technology Laboratory

An all-pallet payload utilizing the Space Shuttle and the European Spacelab and designed to accommodate 8 to 15 experiments per mission.

GS laboratories

. space laboratories

Advanced Technology Laboratory

. Space Shuttle payloads

Advanced Technology Laboratory

Spacelab

Advanced Technology Light Twin aircraft

USE ATLIT project

advanced test reactors

UF ATR reactor

nuclear reactors

. nuclear research and test reactors

. . advanced test reactors

## **Advanced Very High Resolution Radiometer**

(added July 1988)

DEF A five channel scanning instrument that quantitatively measures electromagnetic radiation.

**AVHRR** 

measuring instruments

. radiation measuring instruments

. . actinometers

. . . radiometers

. . . . infrared detectors

. . . . . infrared radiometers

.... Advanced Very High **Resolution Radiometer** 

. . infrared instruments

. . . infrared detectors

. . . . infrared radiometers . . . . . Advanced Very High

Resolution Radiometer

. satellite-borne instruments

#### . Advanced Very High Resolution Radiometer

infrared instruments RT

NOAA 6 satellite NOAA 7 satellite

NOAA 8 satellite

NOAA 11 satellite

NOAA 12 satellite

remote sensors

TIROS N series satellites

## Advanced Vidicon Camera System (AVCS)

**AVCS** 

GS communication equipment

. Advanced Vidicon Camera System (AVCS)

television systems . Advanced Vidicon Camera System (AVCS)

RT ∞ systems video equipment

Advanced X Ray Astrophysics Facility USE X Ray Astrophysics Facility

advancing glaciers

USE glaciers

advancing shorelines USE beaches

#### advection

DEF The process of transport of an atmospheric property solely by the mass motion of the atmosphere; also, the rate of change of the value of the advected property at a given point.

RT atmospheric circulation convection heat transfer mixing layers (fluids) Peclet number

## **Advent Project**

GS programs

. projects

. Advent Project

active satellites communication satellites Courier satellite Relay satellites

AE-A satellite

USE Explorer 17 satellite

AE-B satellite

USE Explorer 32 satellite

AE-C satellite

USE Explorer 51 satellite

AE-D satellite

USE Explorer 54 satellite

AE-E satellite

USE Explorer 55 satellite

aeolian tones

RT elastic waves frequencies Karman vortex street noise (sound) sound waves

wind (meteorology)

## aeolotropism

GS tropism

aeolotropism

anisotropy RT

**AEPS** 

UF Advanced EVA Protection Systems

GS support systems

. life support systems

... emergency life sustaining systems

... AEPS

. . portable life support systems AEPS

Columbus space station

extravehicular activity lunar bases

Mars landing

oxygen supply equipment space shuttles

space stations survival equipment

aeration RT agitation beneficiation blowing

bubbles

corrosion prevention degassing dissolved gases dissolving entrainment

mixers mixing oxygenation purification

∞ separation spraying stirring

suspending (mixing)

water treatment

aerial acrobatics

USE aerobatics

aerial explosions

(LIMITED TO EXPLOSIONS OCCURRING AT HEIGHTS LESS THAN 50 KM) air blasts SN

UF

GS explosions

aerial explosions RT blast loads

chemical explosions

|                | nuclear explosions                                   | U                    | , aerocapture, or aeromaneuvering.                |          | leading edge slats   |
|----------------|--|----------------------|---|----------|--|
|                | thermonuclear explosions                             | RT                   | aerobraking<br>aerocapture                        |          | trailing edge flaps vortex flaps   |
| aerial in      | magery   |                      | aeromaneuvering                                   |          | drag devices   |
|                | aerial photography                                   |                      | atmospheric entry                                 |          | . aerodynamic brakes   |
|                |  |                      | interplanetary transfer orbits                    |          | ballutes   |
|                | photography  |                      | transfer orbits                                   |          | drag chutes  |
| UF<br>GS       | aerial imagery                                       |                      | 4iaa  |          | split flaps  |
| GS             | imagery . photography                                | <b>aerob</b> a<br>UF | acrobatics (aircraft)                             |          | wing flaps leading edge flaps  |
|                | aerial photography                                   | OI.                  | aerial acrobatics                                 |          | leading edge flaps   |
| RT             | astronomical photography                             |                      | stunt flying                                      |          | trailing edge flaps  |
|                | change detection                                     | RT                   | flight control                                    |          | vortex flaps   |
|                | cloud photographs                                    |                      | formation flying                                  | RT       | aircraft brakes  |
|                | cloud photography                                    |                      | maneuvers   |          | control surfaces   |
|                | color photography Earth observations (from space)    | Aoroba               | ee rocket vehicle                                 |          | flaperons  |
|                | Earth Resources Survey aircraft                      | GS                   |   |          | flaps (control surfaces) parachutes  |
|                | forest fire detection                                | 00                   | . sounding rockets                                |          | parafoils  |
|                | geographic information systems                       |                      | Aerobee rocket vehicle                            |          | retractable equipment  |
|                | gray scale   |                      |   |          | spoilers   |
|                | ground truth   | aerobe               |   |          |  |
|                | ice mapping  | RT                   | anaerobes<br>bacteria                             |          | namic buzz<br>flutter  |
|                | image motion compensation infrared photography       |                      | microorganisms                                    | USE      | nutter   |
|                | orthophotography                                     |                      | sewage treatment                                  | aerodyr  | namic center   |
|                | photogeology   |                      | oomaga maammam                                    |          | aerodynamic balance  |
|                | photogrammetry                                       | aerobio              |   |          |  |
|                | photointerpretation                                  | DEF                  | The study of the distribution of living           |          | namic characteristics  |
|                | photomapping   |                      | ms freely suspended in the atmosphere.            | GS       | aerodynamic characteristics  |
|                | photomaps  | RT                   | air pollution                                     |          | . aerodynamic balance  |
|                | pixels   |                      | airborne infection                                |          | . aerodynamic drag supersonic drag   |
|                | plant stress   | ,                    | biology     environment pollution                 |          | . aerodynamic stability  |
|                | rocket-borne photography satellite-borne photography |                      | pollen  |          | interference drag  |
|                | sea truth  |                      | policii   |          | . lift   |
|                | spaceborne photography                               | aerobr               | aking   |          | interference lift  |
|                | stereophotography                                    | DEF                  | Changing orbit size by using the upper            |          | jet lift   |
|                | timber inventory                                     |                      | here to create drag.                              |          | rotor lift   |
|                | ultraviolet photography                              | RT                   | aeroassist  |          | zero lift  |
|                |  |                      | aerocapture                                       | DT       | <ul> <li>static aerodynamic characteristics<br/>aerodynamic noise</li> </ul> |
| aeriai r<br>GS | econnaissance<br>reconnaissance                      |                      | aeromaneuvering interplanetary transfer orbits    | IXI      | angle of attack  |
| GS             | . aerial reconnaissance                              |                      | transfer orbits                                   |          | aspect ratio   |
|                | Airborne Integrated                                  |                      |   | c        | ∞ characteristics  |
|                | Reconnaissance System                                | aeroca               |   |          | cross flow   |
| RT             | aeromagnetism  | DEF                  | Making use of the atmosphere of a                 |          | dynamic characteristics  |
|                | change detection                                     |                      | or planetary satellite by capturing the           |          | engine airframe integration  |
|                | Earth Resources Survey aircraft                      |                      | and reducing the orbit size so that it            |          | flight envelopes   |
|                | ground truth   |                      | s in orbit or lands on the body. aeroassist       |          | induced drag   |
|                | HS-801 aircraft                                      | KI                   | aerobraking                                       |          | rotor body interactions under surface blowing                                |
|                | infrared radiometers<br>meteorological flight        |                      | aeromaneuvering                                   |          | unsteady aerodynamics  |
|                | photoreconnaissance                                  |                      | atmospheric entry                                 |          | upper surface blowing  |
|                | reconnaissance aircraft                              |                      | interplanetary transfer orbits                    |          | wind tunnel tests  |
|                | reconnaissance spacecraft                            |                      | transfer orbits                                   |          |  |
|                | thermal mapping '                                    |                      |   |          | namic chords   |
|                | unmanned aircraft systems                            | aerodo               |   | USE      | airfoil profiles   |
|                | T. L.  | USE                  | tooth diseases                                    |          | chords (geometry)  |
|                | udders airfoils                                      | aerody               | namic axis  | aerody   | namic coefficients   |
| GS             | airiolis<br>. aerial rudders                         |                      | aerodynamic balance                               |          | Any nondimensional coefficients rela   |
|                | control surfaces                                     | 002                  | acroaynamic balance                               | ing to a | erodynamic forces or moments, such a   |
|                | . rudders  | aerody               | namic balance                                     |          | icient of drag, a coefficient of lift, etc                                   |
|                | aerial rudders                                       | UF                   | aerodynamic axis                                  |          | or lift coefficients.  |
| RT             | fins   |                      | aerodynamic center                                |          | lift coefficients  |
|                | horizontal tail surfaces                             |                      | drag balance                                      | GS       | coefficients . aerodynamic coefficients                                      |
|                | marine rudders                                       | 00                   | trim (balance)                                    | RT a     | ∞ drag coefficients  |
|                | stabilizers (fluid dynamics)                         | GS                   | aerodynamic characteristics                       | IXI s    | flow coefficients  |
|                | tabs (control surfaces)                              |                      | . aerodynamic balance<br>balance                  |          | flow distortion  |
|                | tail assemblies                                      |                      | . aerodynamic balance                             |          | force distribution   |
| aeroac         | oustics  | RT                   | aircraft stability                                |          | lift   |
|                | acoustics  |                      | dynamic characteristics                           |          | lift drag ratio  |
|                | . aeroacoustics                                      |                      | horizontal flight                                 |          | pitching moments   |
| RT             | aerodynamics   |                      | lift drag ratio                                   |          | pressure distribution  |
| 0              | ∞ aeronautics  |                      | mass distribution                                 |          | rolling moments yawing moments   |
|                | aircraft noise                                       |                      | spacecraft motion                                 |          | yawing moments   |
|                | Ffowcs Williams-Hawkings equation                    |                      | spacecraft stability                              | aerody   | namic configurations   |
|                | flow noise grazing flow                              |                      | static aerodynamic characteristics turning flight | SN       | (LIMITED TO AFRODYNAMIC VEHICLE  |
|                | noise prediction (aircraft)                          |                      | tarning mgmt                                      |          | SHAPESFOR LIFTING OR THRUSTING SURFACES USE AIRFOILS)                        |
|                | propeller noise                                      | aerody               | namic brakes                                      | GS       | aerodynamic configurations   |
| 0              | ∞ science  | GS                   | brakes (for arresting motion)                     |          | . body-wing and tail configurations  |
|                | screech tones  |                      | . aerodynamic brakes                              |          | . body-wing configurations   |
|                | space-time CE/SE method                              |                      | ballutes  |          | blended-wing-body configurations   |
|                | surface noise interactions                           |                      | drag chutes                                       |          | . aeroshells   |
|                | aia4   |                      | split flaps                                       |          | . canard configurations  |
| aeroas         |  |                      | wing flaps  |          | . drooped airfoils   |
| DEF            | Changing orbit size by utilizing aero-               |                      | leading edge flaps                                |          | . waveriders   |

## aerodynamic drag

|          | . wing nacelle configurations          | UF Glauert coefficient                          | loading moments                  |         |
|----------|--|---|----------------------------------|---------|
| RT       | aircraft configurations                | GS aerodynamic forces                           | pressure distribution            |         |
|          | aircraft design                        | . aerodynamic drag                              | shock loads                      |         |
|          | airfoils                               | supersonic drag                                 | static loads                     |         |
|          | blunt bodies                           | . aerodynamic interference                      | structural design criteria       |         |
|          | bodies of revolution                   | . aerodynamic loads                             | thrust loads                     |         |
|          | channel wings                          | blast loads                                     | transient loads                  |         |
|          | cones                                  | gust loads                                      | vibratory loads                  |         |
| c        | ∞ configurations                       | . hypersonic forces                             | wing loading                     |         |
|          | control surfaces                       | . lift  |                                  |         |
| c        | ∞ design                               | interference lift                               | aerodynamic moments              |         |
|          | disks (shapes)                         | jet lift  | USE stability derivatives        |         |
|          | drag                                   | rotor lift                                      |                                  |         |
|          | engine airframe integration            | zero lift                                       | aerodynamic noise                |         |
|          | fairings                               | . wing loading                                  | UF boundary layer noise          |         |
|          | finned bodies                          | RT ∞ force                                      | GS elastic waves                 |         |
|          | half cones                             | leading edge thrust                             | . sound waves                    |         |
|          | ∞ hemispheres                          | thrust distribution                             | noise (sound)                    |         |
|          | intake systems                         | unsteady aerodynamics                           | flow noise                       |         |
|          | launch vehicle configurations          | unsteady acrodynamics                           | aerodynamic noise                |         |
|          | lift                                   | aerodynamic heat transfer                       | blade slap noise                 |         |
|          |  | GS transmission                                 | propeller noise                  |         |
|          | lifting bodies                         | . heat transmission                             | screech tones                    |         |
|          | missile configurations                 |   | RT acoustic retrofitting         |         |
|          | monoplanes                             | heat transfer                                   | aerodynamic characteristics      |         |
|          | nacelles                               | aerodynamic heat transfer                       |                                  |         |
|          | nose tips                              | hypersonic heat transfer                        | aeroelasticity                   |         |
|          | oblique wings                          | supersonic heat transfer                        | aircraft noise                   | . 4.i - |
|          | propulsion system configurations       | RT ablation                                     | Ffowcs Williams-Hawkings equa    | ation   |
|          | protuberances                          | aerothermodynamics                              | flutter                          |         |
|          | pylon mounting                         | turbulent heat transfer                         | jet aircraft noise               |         |
|          | Reynolds equation                      |   | noise measurement                |         |
|          | ring structures                        | aerodynamic heating                             | noise reduction                  |         |
|          | rotor body interactions                | DEF The heating of a body produced by the       | panel flutter                    |         |
|          | satellite configurations               | passage of air or other gases over its surface. | shock waves                      |         |
|          | scale models                           | GS heating                                      | sonic booms                      |         |
|          |  | . kinetic heating                               | surface noise interactions       |         |
|          | semispan models                        | aerodynamic heating                             | canade nelles interactions       |         |
|          | slender bodies                         |   | aerodynamic stability            |         |
|          | slender cones                          | shock heating                                   | UF flying platform stability     |         |
|          | spacecraft configurations              | RT ablation                                     |                                  |         |
|          | spheres                                | aerodynamics                                    | GS aerodynamic characteristics   |         |
|          | strakes                                | aerothermochemistry                             | aerodynamic stability            |         |
|          | streamlined bodies                     | aerothermodynamics                              | dynamic characteristics          |         |
|          | three dimensional bodies               | atmospheric entry                               | . dynamic stability              |         |
|          | wedges                                 | boundary layer plasmas                          | motion stability                 |         |
|          | wind tunnel models                     | compressible fluids                             | aerodynamic stability            |         |
|          | wing roots                             | convective heat transfer                        | stability                        |         |
|          | Willig 100t3                           | hypersonic reentry                              | . dynamic stability              |         |
|          |  | reentry   | motion stability                 |         |
| aerody   | namic drag                             | reentry effects                                 | aerodynamic stability            |         |
| GS       | aerodynamic characteristics            | reentry shielding                               | RT aeroelasticity                |         |
|          | . aerodynamic drag                     |   | aircraft stability               |         |
|          | supersonic drag                        | skin friction                                   | airfoil oscillations             |         |
|          | aerodynamic forces                     | skin temperature (non-biological)               |                                  |         |
|          | . aerodynamic drag                     | temperature sensitive paints                    | attitude stability               |         |
|          | supersonic drag                        | transient heating                               | ballast (mass)                   |         |
|          | dynamic characteristics                | uncontrolled reentry (spacecraft)               | boundary layer stability         |         |
|          | . drag                                 |   | buffeting                        |         |
|          | friction drag                          | aerodynamic interference                        | directional stability            |         |
|          | aerodynamic drag                       | GS aerodynamic forces                           | dynamic tests                    |         |
|          |  | . aerodynamic interference                      | flight envelopes                 |         |
|          | supersonic drag                        | RT aerodynamics                                 | flight stability tests           |         |
|          | friction                               | air flow  | flow stability                   |         |
|          | . flow resistance                      | aircraft configurations                         | flutter                          |         |
|          | friction drag                          | aircraft structures                             | ground resonance                 |         |
|          | aerodynamic drag                       | airfoil profiles                                | helicopter performance           |         |
|          | supersonic drag                        | control surfaces                                | hovering                         |         |
|          | . skin friction                        | ∞ interference                                  | lateral stability                |         |
|          | friction drag                          | protuberances                                   | liquid sloshing                  |         |
|          | aerodynamic drag                       | rotor stator interactions                       | longitudinal stability           |         |
|          | supersonic drag                        |   |                                  |         |
| RT       | ballistics                             | turbulent flow                                  | low speed stability              |         |
|          | base pressure                          | wing profiles                                   | mass distribution                |         |
|          | ∞ drag coefficients                    |   | pilot induced oscillation        |         |
| -        | drag measurement                       | aerodynamic lift                                | pressure distribution            |         |
|          | drag reduction                         | USE lift  | reentry                          |         |
|          | ground effect (aerodynamics)           |   | Richardson number                |         |
|          |  | aerodynamic loads                               | spacecraft motion                |         |
|          | hypersonic forces                      | GS aerodynamic forces                           | spacecraft stability             |         |
|          | induced drag                           | aerodynamic loads                               | stability augmentation           |         |
|          | lift                                   | blast loads                                     | static aerodynamic characteristi | cs      |
|          | lift drag ratio                        | gust loads                                      | turbulence effects               |         |
|          | orbit decay                            | loads (forces)                                  | unsteady aerodynamics            |         |
|          | pressure drag                          | . dynamic loads                                 | vortex avoidance                 |         |
| c        | ∞ resistance                           | aerodynamic loads                               | wind tunnel stability tests      |         |
|          | satellite drag                         | blast loads                                     |                                  |         |
|          | turbulence                             |   | wing oscillations                |         |
|          | vortex flaps                           | gust loads                                      | wing rock                        |         |
|          | vortox napo                            | RT axial compression loads                      | yaw                              |         |
|          |  | axial loads                                     |                                  |         |
|          | namic forces                           | compression loads                               | aerodynamic stalling             |         |
|          | The force exerted by a moving gas-     | critical loading                                | RT aircraft performance          |         |
| eous flu | uid upon a body completely immersed in | edge loading                                    | aircraft spin                    |         |
| it. Used | I for Glauert coefficient.             | force distribution                              | airspeed                         |         |

|                | angle of attack<br>boundary layer separation<br>lift drag ratio | GS        | mechanical properties . elastic properties . aeroelasticity                  | RT            | Orbit Maneuvering Engine (Space<br>Shuttle)<br>orbital mechanics  |
|----------------|---|-----------|--|---------------|---|
|                | low speed stability rotating stalls                             |           | aeroservoelasticity aerothermoelasticity                                     |               | reusable launch vehicles space shuttles                           |
| c              | ∞ stalling  | RT        | aerodynamic noise  |               | space shalles   |
|                | sweep angle   |           | aerodynamic stability  |               | utical engineering  |
|                | zero lift   |           | aerodynamics   | GS            | aerospace engineering   |
| aerodvi        | namic vehicles  |           | aerothermodynamics aircraft structures                                       | RT            | . aeronautical engineering<br>aerodynamics                        |
| -              | aircraft  |           | airfoil oscillations   |               | ∘ aeronautics   |
|                |   |           | DAST program   | 0             | o aircraft  |
|                | namics The science that deals with the motion                   |           | flutter  |               | aircraft design   |
|                | nd other gaseous fluids, and the forces                         |           | influence coefficient panel flutter  |               | aircraft industry auxiliary propulsion                            |
|                | on bodies when the bodies move through                          |           | rigid wings  |               | compound helicopters  |
|                | lids, or when such fluids move against or                       |           | thermoelasticity   | 0             | o engineering   |
| ics.           | the bodies. Used for hydroaeromechan-                           |           | unsteady aerodynamics  |               | functional design specifications                                  |
| UF             | hydroaeromechanics  |           | wing loading   |               | mechanical engineering propulsion                                 |
| GS             | fluid mechanics   | aeroen    | nbolism  |               | structural engineering  |
|                | . fluid dynamics  |           | The formation or liberation of gases in                                      |               | otical antallitan   |
|                | gas dynamics<br>aerodynamics                                    |           | od vessels of the body, as brought on by                                     | aeronai<br>GS | utical satellites<br>artificial satellites                        |
|                | aerothermodynamics  |           | apid change from a high, or relatively mospheric pressure to a lower one.    | 00            | . communication satellites  |
|                | hypersonics   | GS        | embolisms  |               | aeronautical satellites   |
|                | rotor aerodynamics  |           | . aeroembolism   |               | Aerosat satellites  |
|                | supersonics   | RT        | altitude sickness  | RT •          | <ul> <li>aeronautics</li> <li>air traffic control</li> </ul>      |
| RT             | unsteady aerodynamics aeroacoustics                             |           | decompression sickness fat embolisms   |               | aircraft approach spacing   |
| 111            | aerodynamic heating   |           | stress (physiology)  |               | aircraft communication  |
|                | aerodynamic interference  |           | Stress (physiology)  |               | ground-air-ground communication                                   |
|                | aeroelasticity  | aeroge    |  |               | rescue operations   |
|                | aeronautical engineering  |           | led June 1990)   |               | satellite networks  |
|                | ∞ aeronautics<br>∞ aerospace sciences                           | RT        | foams  | ∞ aerona      | utics   |
|                | ∞ aircraft  |           | gels<br>porous materials   | SN            | (USE OF A MORE SPECIFIC TERM IS                                   |
|                | airfoils  |           | silica gel   |               | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                        |
|                | blunt bodies  |           | xerogels   | UF            | aviation  |
|                | bodies of revolution  |           |  | RT            | aeroacoustics   |
|                | boundary layer control compressible flow                        |           | ro helicopters<br>XH-51 helicopter   |               | aerodynamics  |
|                | control surfaces  | USE       | An-51 Helicopter   |               | aeronautical engineering aeronautical satellites                  |
|                | drag  | aerolo    | ау   |               | aerospace engineering   |
|                | ∞ dynamics  |           | The study of the free atmosphere   | 0             | aerospace sciences  |
| c              | ∞ flight  |           | nout its vertical extent, as distinguished                                   |               | air law   |
|                | flight characteristics<br>flight mechanics                      |           | udies confined to the layer of the atmo-<br>adjacent to the Earth's surface. | 0             | o aircraft  |
| c              | of flow   | GS        | meteorology  |               | airports  |
|                | flow theory   |           | . aerology   |               | avionics<br>civil aviation  |
|                | free wing aircraft  | RT        | Atmospheric & Oceanographic Inform   | ۰             | o flight  |
|                | ground effect (aerodynamics)                                    |           | Sys  |               | general aviation aircraft   |
|                | hypersonic flow   |           | Global Atmospheric Research  |               | human factors engineering   |
|                | hypersonic flow incompressible flow                             |           | Program meteorological parameters  |               | ∘ military aviation<br>∘ science                                  |
|                | inviscid flow   |           | polar meteorology  | ٥             | Science TACT program  |
|                | laminar flow  |           | sea breeze   |               | nto i program   |
|                | lift  |           | wind (meteorology)   | aerono        |   |
|                | Mach number Mach-Zehnder interferometers                        | aerom:    | agnetism   |               | The study of the upper regions of the                             |
|                | reentry   | RT        | aerial reconnaissance  |               | here where ionization, dissociation, and al reactions take place. |
| c              | ∞ science   |           | geomagnetism   | RT            | airglow   |
|                | slender bodies  |           | magnetic anomalies   |               | Alpine meteorology  |
|                | subsonic flow   |           | magnetic surveys   |               | atmospheric composition   |
|                | supersonic flow thermodynamics                                  |           | magnetic variations remote sensing   |               | atmospheric physics   |
|                | transonic flow  |           | remote concarg   |               | auroras<br>DIAL satellite   |
|                | turbulent flow  |           | agneto flutter   |               | field aligned currents  |
|                | uniform flow  | USE       | flutter  |               | flux transfer events  |
|                | unsteady flow   | corom     | aneuvering   |               | geophysics  |
|                | viscous flow wind measurement                                   |           | Changing orbit size or plane or both by                                      |               | magnetosphere-ionosphere coupling                                 |
|                | wind theasurement<br>wind tunnels                               |           | g the upper atmosphere to create drag or                                     |               | mesometeorology<br>meteorology                                    |
|                |   | lift or b | oth.   |               | Nozomi Mars Orbiter   |
|                | stic research wings   | RT        | aeroassist   |               | polar cusps   |
| DEF            | Wings that are designed with less than                          |           | aerobraking<br>aerocapture   |               | upper atmosphere  |
| flutter.       | stiffness to test devices that suppress                         |           | aeroshells   | aerophy       | veice   |
| GS             | airfoils  |           | atmospheric entry  | USE           | atmospheric physics   |
|                | . wings   |           | interplanetary transfer orbits   |               |   |
|                | aeroelastic research wings                                      |           | transfer orbits  |               | atic vehicles   |
| RT             | aircraft design   | Aerom     | aneuvering Orbit to Orbit Shuttle  | RT            | aircraft design<br>attack aircraft                                |
|                | flutter<br>flutter analysis                                     | DEF       | Proposed reusable upper stage for the  | ~             | attack aircraπ<br>∘ military vehicles                             |
|                | structural design   |           | Shuttle superseded by the orbit transfer                                     | Ÿ             | underwater propulsion   |
|                | wing oscillations   | vehicle   | Used for AMOOS.  |               | underwater vehicles   |
|                | and alder   |           | AMOOS  | 4555          | antallita   |
| aeroela<br>DEF | The study of the response of structur-                          | GS        | orbit transfer vehicles . Aeromaneuvering Orbit to Orbit                     | AEROS<br>GS   | satellite<br>artificial satellites                                |
|                | stic bodies to aerodynamic loads.                               |           | Shuttle  |               | . meteorological satellites                                       |
|                |   |           |  |               |   |

AEROS satellite
GS artificial satellites
. meteorological satellites

... AEROS satellite gas atomization vention or cure of physiological or psychological . synchronous satellites Glory Mission satellite malfunctions arising from these effects. ... AEROS satellite MISR (radiometry) space medicine mist medical science Aerosat satellites . aerospace medicine mixers GS artificial satellites particulates . . aviation psychology . communication satellites photophoresis . . space psychology . . aeronautical satellites pollution transport RT acceleration stresses (physiology) . Aerosat satellites SAGE satellite aerosinusitis . ESA satellites ∞ aerospace sciences smoke . . Aerosat satellites smoke abatement altitude sickness spraying thermophoresis . navigation satellites bioastronautics . . Aerosat satellites biofeedback ⇒ biologybiomedical data . synchronous satellites Aerosat satellites aerospace engineering ESA spacecraft space systems engineering Chlorella closed ecological systems . ESA satellites GS aerospace engineering . Aerosat satellites . aeronautical engineering electrolyte metabolism fasting flight fatigue fluid shifts (biology) European space programs RT ∞ aeronautics satellite networks ∞ aerospace sciences
 ∞ aircraft gravitational physiology gravity perception head down tilt aeroservoelasticity ∞ engineering mechanical engineering (added September 1993) UF ASE (aerodynamics) missile design mechanical properties head movement structural engineering . elastic properties head up tilt . . aeroelasticity aerospace environments hindlimb suspension . . aeroservoelasticity (EXCLUDES SPACECRAFT INTRAVEHICULAR ENVIRONMENTS) ∞ medicine SN RT active control mobile quarantine facility actuators space environment motion sickness airfoil oscillations environments radiology . aerospace environments dynamic control ∞ science dynamic response . . cislunar space space adaptation syndrome dynamic structural analysis . . deep space spacecraft environments ... interplanetary space flutter sports medicine interstellar space servocontrol telemedicine unsteady aerodynamics . Earth orbital environments tilt-table test RT ∞ aerospace sciences weightlessness argon-oxygen atmospheres aeroshells ∞ astronautics (added May 1999) DEF Aerodynamic structural shells that atbioastronautics aerospace planes tach to, or comprise a portion of, the exterior of an aerospace vehicle or space probe; especially bioprocessing GS aerospace vehicles biosatellites . aerospace planes such structures that support atmospheric entry, aerobraking, aeroassist, or hypersonic flight. . . HOPE aerospace plane . . HOTOL launch vehicle cosmic rays Earth atmosphere aerodynamic configurations electromagnetic radiation VentureStar launch vehicle GS . aeroshells exobiology extraterrestrial environments . . X-30 vehicle aeromaneuvering nose cones X-37 vehicle extraterrestrial life . . X-40A vehicle extraterrestrial radiation maneuverable spacecraft reentry vehicles spacecraft design spacecraft shielding extravehicular activity . aerospace planes geophysical fluid flow cells HOPE aerospace plane hazardous material disposal (in . . HOTOL launch vehicle spacecraft structures space) VentureStar launch vehicle helium-oxygen atmospheres . . X-30 vehicle aerosinusitis Jupiter atmosphere life support systems lunar environment . . X-37 vehicle GS diseases . . X-40A vehicle . respiratory diseases . X-40A vehicle
reentry vehicles
. recoverable spacecraft
. reusable spacecraft
. aerospace planes
. . HOPE aerospace plane
. HOTOL launch vehicle
. VentureStar launch vehicle
. X-30 vehicle
. X-37 vehicle aerosinusitis manned space flight Mars atmosphere Neptune atmosphere aerospace medicine altitude sickness aerosols panspermia planetary environments radiation belts solar radiation DEF Dispersions of solid or liquid particles in gaseous media. GS mixtures .... X-37 vehicle .... X-40A vehicle soft landing spacecraft space exploration . dispersions space flight .. colloids ... aerosols space habitats . fog space manufacturing aerospace planes . . liquid-gas mixtures space weather . . HOPE aerospace plane ... aerosols space weathering HOTOL launch vehicle . . . . fog spaceborne experiments VentureStar launch vehicle particles spacecraft cabin simulators . . X-30 vehicle . aerosols thermal environments X-37 vehicle . fog Uranus atmosphere . X-40A vehicle air pollution vacuum  $RT \, \infty \, aircraft$ Aitken nuclei Venus atmosphere Astro vehicle atmospheric effects boostglide vehicles atomizing
CALIPSO (Pathfinder satellite) aerospace industry Buran space shuttle Delta Clipper industries CloudSat aerospace industry gliders condensation nuclei hypersonic aircraft . . aircraft industry hypersonic gliders crop dusting RT ∞ aircraft launch vehicles dust commercial spacecraft lifting reentry vehicles liquid air cycle engines entrainment space commercialization environment pollution environmental surveys aerospace medicine military spacecraft DEF That branch of medicine dealing with the effects of flight through the atmosphere or in space upon the human body and with the pre-National Aerospace Plane Program exhaust clouds research aircraft fog dispersal

rocket planes

fumes

Saenger space transportation system transatmospheric vehicles X-20 aircraft

#### aerospace safety

The engineering assessment and analysis of systems, subsystems, and functions of spacecraft, missiles, advanced aircraft and ground support in order to identify hazards associated with such systems and to design procedures that eliminate those hazards or determine tolerable safety levels.

GS safety

aerospace safety

accident prevention aircraft safety flight safety range safety runway incursions safety factors safety management space weather

∞ aerospace sciences

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) space sciences

RT aerodynamics ∞ aeronautics

aerospace engineering aerospace environments aerospace medicine aerospace systems

astronomy Committee on Space Research environmental engineering extraterrestrial radiation International Space Year space laboratories

#### aerospace systems

RT ∞ aerospace sciences control systems design missile systems ∞ systems systems engineering

#### aerospace technology transfer

DEF Technology transfer germane to aircraft and space vehicles, their propulsion, guidance, etc.

GS technology transfer

aerospace technology transfer

Canadian space program information flow reports technological forecasting technology utilization

#### aerospace vehicles

DEF Vehicles capable of flight within and outside the sensible atmosphere.

GS aerospace vehicles

. aerospace planes

. . HOPE aerospace plane . . HOTOL launch vehicle

. . VentureStar launch vehicle .. X-30 vehicle

. . X-37 vehicle . . X-40A vehicle . flexible spacecraft

X-43 vehicle

RT ∞ aircraft

commercial spacecraft

spacecraft

transatmospheric vehicles

#### aerospike engines

(added July 1997)

DEF Rocket engines incorporating a radial in-flow (aerospike) nozzle for altitude compensation. Since the nozzle is open to the ambient atmosphere, the plume compensates for decreasing atmospheric pressure as the vehicle ascends.

GS engines

. rocket engines

. aerospike engines

nozzle design plug nozzles

propulsion system configurations

rocket engine design rocket exhaust rocket nozzles spike nozzles

VentureStar launch vehicle

#### aerostatics

GS statics

aerostatics

buoyancy ∞ dynamics ∞ equilibrium fluid mechanics hydrostatics

#### aerostats

USE airships

#### aerothermochemistry

environmental chemistry aerothermochemistry thermochemistry

aerothermochemistry

ablation

aerodynamic heating aerothermodynamics atmospheric chemistry chemical engineering

∞ chemistry nozzle flow physical chemistry pyrometallurgy reentry physics reentry shielding reentry vehicles

#### aerothermodynamics

DEF The study of aerodynamic phenomena at sufficiently high gas velocities that thermodynamic properties of the gas are important.

fluid mechanics

. fluid dynamics . . gas dynamics . . . aerodynamics

. aerothermodynamics

thermodynamics

aerothermodynamics aerodynamic heat transfer

aerodynamic heating aeroelasticity aerothermochemistry ASSET project
boundary layer plasmas

∞ chemistry

combustion physics

∞ dynamics

hypersonic heat transfer hypersonic reentry hypersonics

Rankine-Hugoniot relation

reentry reentry physics science

skin temperature (non-biological)

supersonics thermoelasticity

#### aerothermoelasticity

The study of the response of elastic structures to the combined effects of aerodynamic heating and loading.

GS mechanical properties . elastic properties . . aeroelasticity . . . aerothermoelasticity

. . thermoelasticity . . . aerothermoelasticity

#### aerozine

DEF A rocket fuel consisting of a mixture of hydrazine and unsymmetrical dimethylhydrazine (UDMH). ĠŚ propellants

. rocket propellants
. . liquid rocket propellants

. aerozine RT dimethylhydrazines hydrazines

AFC (control)

USE automatic frequency control

AFCS (control system)

USE automatic flight control

affects

USE effects

#### afferent nervous systems

GS anatomy

. nervous system

. afferent nervous systems RT sensorimotor performance

∞ systems

#### affinity

GS affinity

electron affinity negative electron affinity

attraction

chemical compatibility compatibility

Afghanistan

GS nations

Afghanistan

Asia

AFM (microscopy)

USE atomic force microscopy

#### Africa

GS continents

Africa

RT African rift system

Algeria Angola Arcomsat Benin Botswana Burkina Burundi Cameroon Cape Verde

Central African Republic

Chad

Congo (Brazzaville)

Cote d'Ivoire

Democratic Republic of Congo

Djibouti Egypt Ethiopia Gabon Gambia Ghana

Guinea

Kalahari Basin (Africa) Kenya Lesotho Liberia Libya Libyan desert Madagascar Malawi Mali Mauritania Mauritius Middle East Morocco Mozambique Namibia nations

Red Sea Republic of South Africa

Rwanda

Sahara Desert (Africa) Senegal Seychelles Sierra Leone Somalia

Niger

Nigeria

Spanish Sahara Sudan Swaziland Tanzania Togo

|                | Tunisia   |          | gerontology                                     |               | surfactants  |
|----------------|---|----------|---|---------------|--|
|                | Uganda  |          | life span                                       |               |  |
|                | Zambia  |          |   | agglom        | eration  |
|                | Zimbabwe  | age hard | dening  | RT            | accumulations  |
| African        | rift system   | USE      | precipitation hardening                         |               | atomic clusters  |
|                | geological faults   |          |   |               | cementation  |
|                | . African rift system   |          | A rocket vehicle                                |               | clumps   |
| RT             | Africa  | GS       | rocket vehicles                                 |               | coagulation coalescing                                       |
| ∞              | systems   |          | . single stage rocket vehicles                  |               | compacting   |
| afterboo       | dies  |          | Agena rocket vehicles                           |               | concentrating  |
|                | Companion bodies that trail satellites.   | RT       | Agena A rocket vehicle Discoverer satellites    |               | crystallization  |
|                | or pieces of rockets or spacecraft that   | IXI      | Thor Agena launch vehicle                       |               | densification  |
| enter the      | e atmosphere unprotected behind nose  |          | The Agena launen vernere                        |               | flocculating   |
|                | or other bodies that are protected for  | Agena F  | 3 Ranger Program                                |               | galactic clusters  |
|                | terparts of vehicles. Used for cylindrical                                      |          | programs  |               | lumping  |
| atterbod<br>UF | ies and sterns.   |          | . NASA programs                                 |               | metal clusters<br>micelles                                   |
| UF             | cylindrical afterbodies<br>sterns   |          | NASA space programs                             |               | molecular clusters   |
| RT             | aircraft structures   |          | Ranger project                                  |               | plugging   |
|                | base heating  |          | Agena B Ranger Program                          |               | precipitation (chemistry)                                    |
|                | boattails   |          | . projects                                      | ~             | separation   |
| ∞              | bodies  |          | Ranger project Agena B Ranger Program           |               | settling   |
|                | centerbodies  |          | Agena B Kanger Frogram                          |               | sintering  |
|                | conical bodies  |          | NASA space programs                             |               | Virgo galactic cluster                                       |
|                | cylindrical bodies  |          | Ranger project                                  |               |  |
|                | flared bodies<br>forebodies   |          | Agena B Ranger Program                          | agglutir      |  |
|                | skirts  | RT       | Thor Agena launch vehicle                       | GS            | bonding . agglutination                                      |
|                | swing tail assemblies   |          |   | RT            | adhesion   |
|                | tail assemblies   |          | 3 rocket vehicle                                | 101           | adhesive bonding   |
| afta shaas     | n a ra  | GS       | rocket vehicles                                 |               | adhesives  |
| afterburi      | afterburning  |          | . single stage rocket vehicles                  |               | cementation  |
|                | •   |          | Agena rocket vehicles Agena B rocket vehicle    |               | chemical bonds   |
| afterbur       |   | RT       | Discoverer satellites                           |               | cohesion   |
|                | Irregular burning of fuel left in the firing                                    | IXI      | Echo satellites                                 |               |  |
|                | r of a rocket after cutoff. The function of burner, a device for augmenting the |          | EGO   | aggrega       |  |
|                | a jet engine by burning additional fuel in                                      |          | Gemini project                                  | RT            | concrete structures  |
|                | ombined oxygen in the gases from the  |          | Mariner program                                 | ~             | concretes<br>construction materials                          |
|                | Used for afterburners.  |          | OAO   |               | dolomite (mineral)   |
|                | afterburners  |          | POGO  |               | gravels  |
| GS             | combustion  |          | Ranger project                                  |               | lava   |
|                | afterburning  |          |   |               | limestone  |
| RT             | burners   | -        | rocket vehicle                                  |               | micelles   |
|                | exhaust systems infrared suppression  | GS       | rocket vehicles . single stage rocket vehicles  |               | rocks  |
|                | internal combustion engines   |          | . Agena rocket vehicles                         |               | sands  |
|                | J-57 engine   |          | Agena C rocket vehicle                          |               | slags  |
|                | jet engines   |          |   | ∞ aging       |  |
|                | thrust augmentation   | Agena [  | O rocket vehicle                                | ∞ aging<br>SN | (LISE OF A MORE SPECIFIC TERM IS                             |
| afterglo       | we  |          | rocket vehicles                                 | OIV           | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|                | Broad, high arches of radiance or glow  |          | . single stage rocket vehicles                  | RT            | LISTED BELOW) aging (biology)                                |
|                | casionally in the western sky above the   |          | Agena rocket vehicles                           | IXI           | aging (biology) aging (materials)                            |
|                | clouds in deepening twilight, caused by   |          | Agena D rocket vehicle                          |               | aging (metallurgy)   |
|                | tering effect of very fine particles of dust                                    |          |   |               | radioactive age determination                                |
|                | led in the upper atmosphere. Also, the  |          | ocket vehicles                                  |               | · ·  |
|                | t decay of a plasma after the power has   | GS       | rocket vehicles                                 | aging (I      | biology)   |
| been tur       | afterglows  |          | . single stage rocket vehicles                  |               | age factor   |
| 00             | . helium afterglow  |          | Agena rocket vehicles<br>Agena A rocket vehicle |               | ∘ aging  |
|                | . oxygen afterglow  |          | Agena B rocket vehicle                          | ~             | o biology  |
| RT             | atmospheric ionization  |          | Agena C rocket vehicle                          |               | geriatrics<br>gerontology                                    |
|                | gas discharges  |          | Agena D rocket vehicle                          |               | life sciences  |
|                | gas ionization  | RT       | Atlas Agena B launch vehicle                    |               | life span  |
|                | light scattering  |          | Atlas Agena launch vehicles                     |               | mortality  |
|                | luminescence  |          | Discoverer satellites                           |               | physiology   |
|                | phosphorescence<br>plasma decay   |          | Echo satellites<br>Gemini project               |               |  |
|                | Swift observatory   |          | Mariner program                                 |               | materials)   |
|                | •   |          | Ranger project                                  | GS            | aging (materials)  |
| afterima       |   |          | Thor Agena launch vehicle                       | рт            | . aging (metallurgy)   |
| GS             | images . afterimages  |          | · ·   | KI ×          | <ul><li>aging<br/>hardening (materials)</li></ul>            |
| RT             | critical flicker fusion   | ∞ agents |   | ~             | • materials  |
|                | illusions   | SN       | (USE OF A MORE SPECIFIC TERM IS                 |               | mechanical properties  |
|                | psychological effects   |          | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)      |               | microstructure   |
|                | sensory perception  | RT       | accelerating agents                             |               | strain hardening   |
|                | visual perception   |          | additives                                       |               |  |
| AGB sta        | ars   |          | anticoagulants                                  |               | metallurgy)  |
| USE            | asymptotic giant branch stars   |          | antifouling                                     | GS            | aging (materials)  |
| AGC (or        |   |          | antioxidants                                    | DT            | . aging (metallurgy)   |
| AGC (co        | automatic gain control  |          | diluents<br>neutralizers                        | KI ×          | ∘ aging<br>hardening (materials)                             |
|                | •   |          | opacifiers                                      |               | heat treatment   |
|                |   |          |   |               | wowwo.it   |
|                | ermination  |          | oxidizers                                       |               | microstructure   |
|                | ermination<br>chronology  |          | •   |               | microstructure solid solutions                               |
|                | chronology  |          | oxidizers                                       |               |  |

|            | time temperature peremeter  |   | ural arosa   |   | rotory wing aircraft  |
|------------|---|---|--|---|---|
|            | time temperature parameter  |   | ural areas   |   | . rotary wing aircraft  |
| !4 4!      | _   |   | ural land use  |   | helicopters   |
| agitatio   |   | \$  | soil science   |   | military helicopters  |
| GS         | agitation   | 8   | sorghum  |   | AH-1S helicopter  |
|            | . ultrasonic agitation  | 5   | sugar beets  | RT 。  | ∘ aircraft  |
| RT         | aeration  | 5   | sugar cane   | ٥   | o military aircraft   |
|            | blowing   |   | sunflowers   |   | •   |
|            | chemical reaction control   |   | omatoes  | AH-1W   | helicopter  |
|            | coalescing  |   | ractors  |   | ed April 1997)  |
|            | colloiding  |   |  |   | SuperCobra  |
|            | •   |   | regetation growth  |   |   |
|            | dispersing  | \   | rineyards  | GS  | attack aircraft   |
|            | disposal  |   |  |   | . AH-1W helicopter  |
|            | homogenizing  | AgRISTA   | RS project   |   | Bell aircraft   |
|            | mixers  | DEF   | A multiagency program utilizing Land-  |   | . AH-1W helicopter  |
|            | mixing  |   | e sensing data to predict crop yields,   |   | V/STOL aircraft   |
| 000        | separation  |   | and detect pollution. Used for Crop  |   | . rotary wing aircraft  |
|            | settling  |   | s by Remote Sensing.   |   | . helicopters   |
|            | •   |   | , ,  |   | •   |
|            | shaking   |   | Crop Inventories by Remote Sensing   |   | military helicopters  |
|            | sizing screens  |   | programs   |   | AH-1W helicopter  |
|            | splashing   |   | projects   |   | ∘ aircraft  |
|            | suspending (mixing)   |   | . AgRISTARS project  | ٥   | ∘ military aircraft   |
|            | swirling  |   | agriculture  |   |   |
|            | turbulent mixing  |   | agrophysical units   | AH-63 I   | nelicopter  |
|            | vortices  |   | crop inventories   |   | attack aircraft   |
|            |   |   |  | 00  | . AH-63 helicopter  |
|            | water treatment   |   | arm crops  |   |   |
|            |   | f   | resh water   |   | Bell aircraft   |
| agreeme    | ents  | l:  | and use  |   | . AH-63 helicopter  |
| RT         | contracts   | L   | andsat satellites  |   | V/STOL aircraft   |
|            | conventions   |   | neteorological satellites  |   | . rotary wing aircraft  |
|            | insurance (contracts)   |   | 9  |   | helicopters   |
|            |   |   | NASA programs  |   | •   |
|            | subcontracts  |   | emote sensors  |   | military helicopters  |
|            |   | \   | regetative index   |   | AH-63 helicopter  |
| agricult   | ural aircraft   |   |  | RT 。  | <ul> <li>military aircraft</li> </ul>   |
| DEF        | Light aircraft specially equipped for ag-   | agroclima   | atology  |   | •   |
| ricultural | applications such as crop dusting.  |   | climatology  | AH-64 I   | nelicopter  |
|            | Snow aerial applicator aircraft S-2B  |   |  | GS  | attack aircraft   |
| 0.         | Snow S-2 aircraft   |   | agroclimatology  | 00  |   |
| 00         |   |   | agriculture  |   | AH-64 helicopter  |
| GS         | general aviation aircraft   | a   | agrometeorology  |   | Hughes aircraft   |
|            | . agricultural aircraft   | ŀ   | nydroclimatology   |   | . AH-64 helicopter  |
| RT         | agriculture   | r   | neteorological parameters  |   | V/STOL aircraft   |
| ∞          | aircraft  |   | neteorology  |   | . rotary wing aircraft  |
|            | AN-2 aircraft   |   |  |   | . helicopters   |
|            |   | ı   | nicroclimatology   |   |   |
|            | crop dusting  |   |  |   | military helicopters  |
|            | light aircraft  | agromete  | eorology   |   | AH-64 helicopter  |
|            | swath width   | GS r  | neteorology  | RT 。  | military aircraft   |
|            |   |   | agrometeorology  |   |   |
| agricult   | ure   |   | agriculture  | ∞ aids  |   |
|            | agriculture   |   |  | SN  | (USE OF A MORE SPECIFIC TERM IS   |
| 00         | •   |   | agroclimatology  | OIN   | RECOMMENDEDCONSULT THE TERMS  |
|            | . aquiculture   |   | nydrometeorology   |   | LISTED BELOW)   |
|            | . silviculture  | r   | nicrometeorology   | RT  |   |
| RT         | agricultural aircraft   | t   | hermal resources   |   | navigation aids   |
|            | AgRISTARS project   | t   | ropical meteorology  |   | visual aids   |
|            | agroclimatology   | _   |  |   | visuai aius   |
|            | agrometeorology   | ographys  | ical unita   |   |   |
|            |   |   | sical units  | AIDS (c   |   |
|            | agrophysical units  |   | Geographic areas defined for statisti-   | USE   | acquired immunodeficiency   |
|            | alfalfa   | cal purpo   | ses by AgRISTARS personnel whose   |   | syndrome  |
|            | barley  | boundarie   | s are based on natural rather than   |   |   |
| ∞          | biology   | political lin   | nes for the purpose of comparing simi-   | aileron   | \$  |
|            | botany  |   | tural regions.   | GS  | airfoils  |
|            | citrus trees  |   | agriculture  | 00  |   |
|            | conservation  |   |  |   | . ailerons  |
|            |   |   | AgRISTARS project  |   | flaperons   |
|            | corn  |   | armlands   |   | spoiler slot ailerons   |
|            | crop dusting  | L   | arge Area Crop Inventory   |   | control surfaces  |
|            | crop growth   |   | Experiment   |   | . ailerons  |
|            | crop identification   |   | ·  |   | flaperons   |
|            | crop inventories  | AGT   |  |   |   |
|            | crop vigor  |   | automated guideway transit   | БТ  | spoiler slot ailerons   |
|            | crops   | 001   | vehicles   | RT  | elevators (control surfaces)  |
| •          |   |   | venicies   |   | elevons   |
|            | farm crops  |   |  |   | lateral control   |
|            | farmlands   | AH-1G he  |  |   | tabs (control surfaces)   |
|            | fruits  | DEF   | JS Army designation for the Bell   |   | ,   |
|            | genetically modified plants   | Model 20  | 9 Hueycobra attack helicopter pow-   | AIMP-1  |   |
|            |   | ered by a   | single Avco Lycoming T53-L-13 tur-   | USE   | Explorer 33 satellite   |
|            | grassiangs  |   |  | UUL   | Explorer 33 Satellite   |
|            | grasslands Great Plains Corridor (North America)  | hoshaft ei  | naine  |   |   |
|            | Great Plains Corridor (North America)   | boshaft e   |  | 4.44D 0   |   |
|            | Great Plains Corridor (North America) halophiles  | GS a  | attack aircraft  | AIMP-2  |   |
|            | Great Plains Corridor (North America)<br>halophiles<br>hay  | GS a  | attack aircraft<br>AH-1G helicopter  | AIMP-2<br>USE                                       | Explorer 35 satellite   |
|            | Great Plains Corridor (North America)<br>halophiles<br>hay<br>hydrocarbon fuel production   | GS a<br>\   | uttack aircraft  AH-1G helicopter //STOL aircraft  | USE   | Explorer 35 satellite   |
|            | Ğreat Plains Corridor (North America)<br>halophiles<br>hay<br>hydrocarbon fuel production<br>hydroponics  | GS a  | attack aircraft  AH-1G helicopter //STOL aircraft rotary wing aircraft   |   | Explorer 35 satellite   |
|            | Great Plains Corridor (North America)<br>halophiles<br>hay<br>hydrocarbon fuel production   | GS a  | attack aircraft  AH-1G helicopter //STOL aircraft rotary wing aircraft   | USE<br>AIMP-D                                       | Explorer 35 satellite   |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation   | GS &  | attack aircraft AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters  | USE   | Explorer 35 satellite   |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory   | GS &  | Mack aircraft  AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters military helicopters  | USE<br><i>AIMP-D</i><br>USE                         | Explorer 35 satellite  Explorer 33 satellite  |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment  | GS a  | AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopters . AH-1G helicopter  | USE  AIMP-D  USE  AIMP-E                            | Explorer 35 satellite  Explorer 33 satellite  |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants  | GS a  | Mack aircraft  AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters military helicopters  | USE  AIMP-D  USE  AIMP-E                            | Explorer 35 satellite  Explorer 33 satellite  |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats   | GS a  | Attack aircraft AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopters AH-1G helicopter military aircraft  | USE<br>AIMP-D<br>USE<br>AIMP-E<br>USE               | Explorer 35 satellite  Explorer 33 satellite  |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants  | GS a  | Attack aircraft AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopters AH-1G helicopter military aircraft  | USE  AIMP-D  USE  AIMP-E                            | Explorer 35 satellite  Explorer 33 satellite  |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats   | GS a  | Attack aircraft AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopters AH-1G helicopter military aircraft  | USE<br>AIMP-D<br>USE<br>AIMP-E<br>USE<br><b>air</b> | Explorer 35 satellite  Explorer 33 satellite  Explorer 35 satellite   |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats orchards plant diseases                                       | GS a  | AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters military helicopters AH-1G helicopter military aircraft  | USE  AIMP-D  USE  AIMP-E  USE  air  DEF             | Explorer 35 satellite  Explorer 33 satellite  Explorer 35 satellite  The mixture of gases comprising the                                  |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats orchards plant diseases plant stress                          | GS a  | AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters military helicopter military aircraft elicopter //April 1997) attack aircraft  | USE  AIMP-D  USE  AIMP-E  USE  air  DEF  Earth's    | Explorer 35 satellite  Explorer 33 satellite  Explorer 35 satellite  The mixture of gases comprising the atmosphere.                      |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats orchards plant diseases plant stress planting                 | GS a RT ∞ r AH-1S he  | AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopter military aircraft helicopter //AFOL aircraft helicopter //AFOL aircraft helicopter //AFOL aircraft helicopter //AFOL aircraft AH-1S helicopter | USE  AIMP-D  USE  AIMP-E  USE  air  DEF             | Explorer 35 satellite  Explorer 33 satellite  Explorer 35 satellite  The mixture of gases comprising the atmosphere. gases                |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats orchards plant diseases plant stress planting plants (botany) | GS a<br>RT ∞ r<br>AH-1S he<br>(added<br>GS a                      | AH-16 helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopters . AH-1G helicopter military aircraft  Plicopter / April 1997) mttack aircraft AH-15 helicopter Bell aircraft                                  | USE  AIMP-D  USE  AIMP-E  USE  air  DEF  Earth's    | Explorer 35 satellite  Explorer 33 satellite  Explorer 35 satellite  The mixture of gases comprising the atmosphere. gases . gas mixtures |
|            | Great Plains Corridor (North America) halophiles hay hydrocarbon fuel production hydroponics irrigation Large Area Crop Inventory Experiment leguminous plants oats orchards plant diseases plant stress planting                 | GS a  \ \ \ \ \ RT \omega r  AH-1S he \(\)(added c) \(\)GS a \(\) | AH-1G helicopter //STOL aircraft rotary wing aircraft . helicopters . military helicopter military aircraft helicopter //AFOL aircraft helicopter //AFOL aircraft helicopter //AFOL aircraft helicopter //AFOL aircraft AH-1S helicopter | USE  AIMP-D  USE  AIMP-E  USE  air  DEF  Earth's    | Explorer 35 satellite  Explorer 33 satellite  Explorer 35 satellite  The mixture of gases comprising the atmosphere. gases                |

|          | 1 .                                      |         | D: ( 10:111                                     |           |   |
|----------|--|---------|---|-----------|---|
|          | compressed air                           |         | Bristol-Siddeley BS 53 engine                   |           | refrigerating machinery                           |
|          | expired air                              |         | CF-700 engine                                   |           |   |
|          | high temperature air                     |         | convertible fan-shaft engines                   |           | ductivity   |
|          | liquid air                               |         | J-97 engine                                     | RT        | atmospheric conductivity                          |
|          | mixtures                                 |         | TF-30 engine                                    |           | electrical resistivity                            |
|          | . solutions                              |         | TF-34 engine                                    |           | thermal conductivity                              |
|          | gas mixtures                             |         | TF-41 engine                                    |           |   |
|          | air                                      |         | turboprop engines                               | air cool  |   |
|          | alveolar air                             |         | T-34 engine                                     | SN        | (COOLING WITH AIR)                                |
|          | compressed air                           |         | T-38 engine                                     | GS        | cooling   |
|          | expired air                              |         | T-53 engine                                     |           | air cooling                                       |
|          | high temperature air                     |         | T-55 engine                                     | RT        | coolants  |
|          | liquid air                               |         | T-56 engine                                     |           | coolers   |
| RT       | air data systems                         |         | T-63 engine                                     |           | cooling systems                                   |
| ۰        | o atmospheres                            |         | T-64 engine                                     |           | liquid cooling                                    |
|          | atmospheric composition                  |         | T-74 engine                                     |           | refrigerating                                     |
|          | Earth atmosphere                         |         | T-76 engine                                     |           | ventilation                                       |
|          | environments                             |         | T-78 engine                                     |           |   |
|          | middle atmosphere                        |         | turboramjet engines                             | air curr  | ents  |
|          |  | RT      | air breathing boosters                          | GS        | fluid flow  |
|          | restraint devices                        |         | pulse detonation engines                        |           | . gas flow  |
| GS       | bags                                     |         | rocket-based combined-cycle engines             |           | air flow  |
|          | . air bag restraint devices              |         |   |           | air currents                                      |
|          | expandable structures                    | oir oor |   |           | jet streams (meteorology)                         |
|          | . inflatable structures                  |         | air cargo<br>UF air freight                     |           | meridional flow                                   |
|          | air bag restraint devices                |         | •   |           | vertical air currents                             |
|          | safety devices                           | GS      | cargo   | RT        | atmospheric circulation                           |
|          | . air bag restraint devices              |         | air cargo                                       | 17.1      | barotropic flow                                   |
| RT       | accident prevention                      | DT      | air mail  |           | boundary layer flow                               |
|          | accidents                                | RT      | airdrops  |           |   |
|          | automobiles                              |         | airfield surface movements                      |           | boundary layer transition Brunt-Vaisala frequency |
|          | collisions                               |         | airline operations                              |           | . ,   |
|          | crashes                                  |         | baggage   |           | convection clouds<br>convection currents          |
| ۰        | • devices                                |         | cargo aircraft                                  |           |   |
|          | highways                                 |         | ground handling                                 | ۰         | o currents  |
|          | pneumatic equipment                      |         | heavy lift helicopters                          |           | ground wind                                       |
|          | safety                                   |         |   |           | lee waves   |
|          | calcty                                   | oir oon | ditioning                                       |           | sea breeze  |
| air bear | inas                                     |         | ditioning The simultaneous control of all or at |           | upstream  |
|          | gas bearings                             |         | The simultaneous control of all, or at          |           | wind (meteorology)                                |
| OOL      | gas bearings                             |         | ree, of those factors affecting both the        |           | windpower utilization                             |
| air blas | ts                                       |         | I and chemical conditions of the atmo-          |           | zonal flow (meteorology)                          |
|          | aerial explosions                        |         | within any structure. These factors in-         |           |   |
| OOL      | derial explosions                        |         | emperature, humidity, motion, distribu-         | air cusl  | nion landing systems                              |
| air bros | athing boosters                          |         | st, bacteria, odor, and toxic gases.            | DEF       | Landing systems based on the ground               |
|          | Boosters which are possible substi-      | RT      | blowers   |           | rinciple whereby a stratum of air is uti          |
|          |  |         | comfort   |           | the aircraft ground contacting mediun             |
|          | r rocket engines and which have inlets   |         | condensers (liquefiers)                         |           | e of landing gear).                               |
|          | en sources for their engines rather than |         | controlled atmospheres                          | RT        | aircraft landing                                  |
|          | their own oxygen as in a conventional    |         | coolants  | 111       | cushions  |
| rocket.  |  |         | coolers   |           |   |
| RT       | air breathing engines                    |         | cooling   |           | ground effect (aerodynamics)                      |
|          | booster rocket engines                   |         | cooling systems                                 |           | skid landings                                     |
| ۰        | o boosters                               |         | ∞ diffusers                                     | ۰         | o systems   |
|          | rocket-based combined-cycle engines      |         | exhaust systems                                 |           |   |
|          |  |         | freon   |           | ion vehicles                                      |
|          | thing engines                            |         | heat pumps                                      | USE       | ground effect machines                            |
| GS       | engines                                  |         | heating   |           |   |
|          | . air breathing engines                  |         | heating heating equipment                       | air data  | systems   |
|          | gas turbine engines                      |         | humidity  | SN        | (LIMITED TO FLIGHT DATA SYSTEMS)                  |
|          | hydrogen engines                         |         | infiltration                                    |           | Sets of aerodynamic and thermody                  |
|          | jet engines                              |         |   | namic s   | ensors, and a computer which provid               |
|          | T-58 engine                              |         | life support systems                            | flight ch | naracteristics such as airspeed, stati-           |
|          | ramjet engines                           |         | Modular Integrated Utility System               | pressure  | e, air temperature and Mach number.               |
|          | integral rocket ramjets                  |         | refrigerants                                    | GS        | data systems                                      |
|          | low volume ramjet engines                |         | refrigerating                                   |           | . air data systems                                |
|          | pulsejet engines                         |         | refrigerating machinery                         | RT        | air   |
|          | supersonic combustion ramjet             |         | space heating (buildings)                       |           | ∘ aircraft  |
|          | engines                                  |         | temperature                                     |           | spacecraft  |
|          | turboramjet engines                      |         | temperature control                             |           | tables (data)                                     |
|          | turbojet engines                         |         | temperature distribution                        |           | wind tunnel tests                                 |
|          | Bristol-Siddeley Olympus 593             |         | thermal insulation                              |           | Wild tallior toolo                                |
|          | engine                                   |         | ∞ treatment                                     | air defe  | neo   |
|          | •  |         | ventilation                                     | GS        |   |
|          | Bristol-Siddeley Viper engine            |         |   | GS        | air defense                                       |
|          | ducted fan engines                       | al ·    | ditioning oquin                                 |           | . antimissile defense                             |
|          | J-33 engine                              |         | ditioning equipment                             | D.T.      | . SAGE air defense system                         |
|          | J-34 engine                              | RT      | absorbents                                      | RT        | antiradiation missiles                            |
|          | J-47 engine                              |         | absorbers (equipment)                           |           | Ballistic Missile Early Warning Systen            |
|          | J-52 engine                              |         | adsorbents                                      |           | camouflage  |
|          | J-57 engine                              |         | blowers   |           | civil defense                                     |
|          | J-58 engine                              |         | compressors                                     |           | deception   |
|          | J-65 engine                              |         | condensers (liquefiers)                         | 0         | o defense   |
|          | J-69-T-25 engine                         |         | coolers   |           | defense program                                   |
|          | J-71 engine                              |         | cooling systems                                 |           | DMSP satellites                                   |
|          | J-73 engine                              |         | ∞ diffusers                                     |           | early warning systems                             |
|          | J-75 engine                              |         | ∞ equipment                                     |           | electronic warfare                                |
|          | J-79 engine                              |         | evaporators                                     |           | jammers   |
|          | J-85 engine                              |         | evaporators<br>∞ fans                           |           | optical countermeasures                           |
|          |  | •       |   |           |   |
|          | J-93 engine                              |         | heat pumps                                      |           | sabotage  |
|          | RA-28 engine                             |         | heating equipment                               |           | space surveillance (ground based)                 |
|          | turbofan engines                         |         | oxygen supply equipment                         |           | space surveillance (spaceborne)                   |

|            | weapons delivery                          | ~          | water intakes   |           | synoptic meteorology   |
|------------|---|------------|---|-----------|--|
| Air Don    | sity Explorer A                           | air jets   |   |           | warm fronts  |
|            | Explorer 19 satellite                     | GS         | fluid flow  |           | weather forecasting windpower utilization                                      |
| 002        |   |            | . jet flow  |           | Windpower dunzation  |
|            | sity/Injun Explorer B                     |            | . air jets  | air navi  |  |
| USE        | Explorer 25 satellite                     |            | fluid jets  |           | The art, science, or action of plotting  |
| oir dron   | anarations                                | DT         | . air jets  |           | ecting the course of an aircraft through                                       |
|            | operations<br>bailout                     | RT         | gas flow  |           | rom one place to another. navigation   |
|            | ballutes                                  |            | gas jets<br>jet streams (meteorology)   | 00        | . air navigation   |
|            | cargo                                     | ~          | e jets  |           | all-weather air navigation   |
|            | delivery                                  |            | vapor jets  |           | area navigation  |
|            | free fall                                 |            |   |           | nap-of-the-earth navigation  |
| ~          | operations                                |            | interactions  | DT        | terrain following  |
|            | parachutes parawings                      | RT         | atmospheric boundary layer atmospheric circulation                                  | RT        | astronavigation boresight error  |
|            | parawings                                 |            | Earth cryosphere  |           | celestial navigation   |
| air duct   | s   |            | gas-solid interactions  |           | celestial reference systems  |
| GS         | ducts                                     | ~          | interactions  |           | collision avoidance  |
| DT         | . air ducts                               |            | land surface temperature  | ~         | o control  |
| RT         | annular ducts<br>blowers                  |            | meteorology   |           | dead reckoning   |
|            | exhaust nozzles                           | air laun   | china   |           | digital navigation  Doppler navigation   |
| ~          | fans                                      |            | launching   |           | flight instruments   |
|            | gas flow                                  |            | . air launching   |           | flight management systems  |
|            | ventilators                               | RT         | multistage rocket vehicles  |           | flight paths   |
|            |   |            | Pegasus air-launched booster  |           | flight plans   |
| air filter |   |            | piggyback systems   |           | flight rules   |
| GS         | cleaners . air filters                    |            | X-34 reusable launch vehicle  |           | formation flying   |
|            | separators                                | air law    |   |           | guidance (motion) hyperbolic navigation  |
|            | . fluid filters                           | DEF        | The body of domestic and/or interna-  |           | inertial navigation  |
|            | air filters                               | tional lav | ws dealing with regulations and liabilities   |           | instrument flight rules  |
| RT         | cooling systems                           |            | r military aviation.  |           | loran  |
|            | dust collectors                           | GS         | law (jurisprudence)   |           | loran C  |
| ~          | filters                                   |            | . international law   |           | loran D  |
|            | precipitators<br>ventilation              | PT ~       | <b>air law</b><br>∍ aeronautics   |           | National Airspace Utilization System   |
|            | Vollation                                 | 1(1 %      | airspace  |           | navigation aids Omega Navigation System  |
| air flow   |   |            | civil aviation  |           | polar navigation   |
| GS         | fluid flow                                |            | conventions   |           | radar navigation   |
|            | . gas flow                                |            | insurance (contracts)   |           | radio navigation   |
|            | air flow                                  |            | legal liability   |           | Shoran   |
|            | jet streams (meteorology)                 |            | liabilities   |           | solar compasses  |
|            | meridional flow                           | ~          | <ul> <li>military aviation</li> <li>National Airspace Utilization System</li> </ul> |           | space navigation<br>Tacan  |
|            | vertical air currents                     |            | penalties   |           | VHF omnirange navigation   |
| RT         | aerodynamic interference                  |            | politics  |           | visual flight  |
|            | atmospheric boundary layer                |            | public law  |           |  |
|            | barotropic flow                           |            | regulations   | air pira  |  |
|            | Brunt-Vaisala frequency compressible flow |            | space law   | UF        | hijacking  |
| 00         | currents                                  | air lock   | s   | GS        | crime<br>. air piracy  |
|            | duct geometry                             | DEF        | A stoppage or diminution of flow in a   | RT        | aircraft safety  |
|            | ducted flow                               |            | stem, hydraulic system, or the like,  | 111       | airport security   |
|            | streamlining                              |            | by pockets of air or vapor. Also cham-  |           | flight hazards   |
|            | streams                                   |            | pable of being hermetically sealed that   |           | flight safety  |
|            | ventilation                               |            | for passage between two places of   |           | operational hazards  |
| air freigi | ht.                                       |            | pressure as between an altitude cham-<br>the outside atmosphere.                    |           | terrorism  |
|            | air cargo                                 |            | compartments  | air pollu | ution  |
| 002        | ca.go                                     | 00         | . air locks   | DEF       | The presence of unwanted material in   |
| air inlets | 3   |            | airlock modules   | the air.  | The term "unwanted material" here  |
| USE        | air intakes                               | RT         | doors   |           | o material in sufficient concentrations  |
|            |   |            | egress  |           | for a sufficient time, and under circum  |
| air intal  |   |            | enclosures  |           | to interfere significantly with comfort  |
|            | air inlets intake systems                 |            | hatches   |           | or welfare of persons, or with the full use joyment of property. Used for atmo |
| 00         | . air intakes                             | ~          | ingress (spacecraft passageway)<br>locks  |           | impurities.  |
|            | engine inlets                             |            | pressure chambers   | UF        | atmospheric impurities   |
|            | hypersonic inlets                         |            | seals (stoppers)  | GS        | pollution  |
|            | inlet airframe configurations             |            |   |           | . environment pollution  |
|            | supersonic inlets                         | air mail   |   |           | air pollution  |
| RT         | bypass ratio                              | GS         | cargo   |           | global air pollution   |
|            | conical inlets cowlings                   |            | . air cargo<br>air mail   | RT        | indoor air pollution acid rain   |
|            | inlet nozzles                             |            | ali Iliali  | IXI       | aerobiology  |
|            | inlet temperature                         | air mas    | ses   |           | aerosols   |
|            | internal compression inlets               |            | Large widespread volumes of air hav-  |           | ashes  |
|            | manifolds                                 | ing parti  | cular characteristics of temperature and  |           | atmospheric chemistry  |
|            | nacelles                                  |            | e content that were acquired at its   |           | atmospheric composition  |
|            | nose inlets                               |            | region and are modified as they move  |           | atmospheric density  |
|            | plenum chambers                           |            | om their source.  |           | atmospheric effects  |
|            | scoops<br>side inlets                     | RT         | anticyclones atmospheric circulation  |           | biomass burning chlorofluorocarbons  |
|            | superchargers                             |            | Brunt-Vaisala frequency   |           | chlorofluoromethane  |
|            | supersonic diffusers                      |            | cold fronts   |           | clean energy   |
|            | ventilation                               |            | fronts (meteorology)  |           | climate change   |
|            | ventilators                               |            | meteorology   |           | combustion products  |
|            |   |            |   |           |  |

contamination sea ice . air traffic control diffusion . . automated en route ATC air sea interactions drops (liquids) . radar approach control USE air water interactions dust traffic control Earth atmosphere . air traffic control air showers Earth environment . . automated en route ATC (added August 1997) effluents . . radar approach control USE cosmic ray showers environment effects aeronautical satellites environment protection airborne radar approach air sickness environmental chemistry aircraft approach spacing USE motion sickness environmental quality aircraft communication environmental surveys aircraft guidance air slew missiles environments aircraft safety DEF Solid propellant rockets utilizing thrust exhaust gases airport surface detection equipment vector control. exhaust systems airport towers GS missiles airports fallout air slew missiles flue gases airspace RT maneuverability approach flv ash ∞ rockets approach control forest fires solid propellant rocket engines approach indicators attitude control Global Air Sampling Program thrust vector control haze automated pilot advisory system automated radar terminal system Beacon Collision Avoidance System human wastes air start metabolic wastes engine relight (in-flight) UF middle atmosphere mixing height in-flight starting collision avoidance GS starting collisions mutagens air start nitrous acid control RT aircraft control discrete address beacon system odors aircraft engines organic peroxides flight altitude engine control oxidizers flight control flight tests ozone depletion flight management systems particles flight paths air to air missiles particulates flight plans air to air rockets missiles UF photochemical oxidants flight rules GS pollen flight safety . air to air missiles pollution monitoring flight time . . Falcon missile pollution transport ground support equipment . . Matra missile polynuclear organic compounds ground-air-ground communication . . Sidewinder missiles heliports . . Sparrow missiles smoke instrument flight rules . Sparrow 2 missile smoke abatement instrument landing systems Sparrow 3 missile landing antiaircraft missiles landing aids temperature inversions ramjet missiles volatile organic compounds landing instruments SIAM missiles landing radar waste disposal space weapons LOCATES system wastes surface to air missiles wind (meteorology) microwave landing systems midair collisions air to air refueling air purification military air facilities GS refueling purification National Airspace System GS air to air refueling air purification National Airspace Utilization System RT tanker aircraft National Aviation System carbon dioxide concentration navigation aids ∞ operations carbon dioxide removal air to air rockets decontamination USE air to air missiles electrostatic precipitators radar navigation Hopcalite (trademark) air to surface missiles radio navigation rebreathing GS missiles routes sterilization . air to surface missiles situational awareness . . Bullpup missiles ventilation solar compasses surveillance radar . . Condor missile Harpoon missile air quality takeoff quality . . Hound Dog missile taxiing environmental quality . . Maverick missiles towers . air quality . . quail missile tracking (position) Earth atmosphere Shrike missile transponders miss distance environments vortex advisory system indoor air pollution ordnance vortex avoidance particulates surface to air missiles pollution control surface to surface missiles air traffic controllers (personnel) pollution monitoring surfaces GS personnel volatile organic compounds weapon systems air traffic controllers (personnel) airport towers air sampling air traffic ground based control GS sampling GS traffic landing aids air sampling air traffic traffic control electrostatic precipitators aircraft hazards environment pollution airline operations gas analysis air transportation airspace Global Air Sampling Program collision avoidance The conveyance of cargo and passenindoor air pollution flight hazards gers by means of airplanes, helicopters, and other airborne vehicles. ozonesondes flight paths GS transportation particulates flight plans . air transportation National Airspace Utilization System smoa airline operations National Aviation System air sea ice interactions commercial aircraft GS gas-liquid interactions air traffic control commuter aircraft DEF A service operated by approriate aucompound helicopters . air water interactions air sea ice interactions thority to promote the safe, orderly and expegeneral aviation aircraft dious flow of air traffic. RT ∞ interactions marine transportation

GS ground based control

National Aviation System

polynyas

|          | passenger aircraft  |            | . airborne radar   |   | A-9 aircraft                                     |
|----------|---|------------|--|---|--|
|          | rapid transit systems                                       |            | airborne surveillance radar  |   | A-10 aircraft                                    |
|          | short haul aircraft   | RT         | airborne equipment   |   | A-37 aircraft                                    |
|          | transport aircraft  |            | clutter<br>digital radar systems   |   | A-300 aircraft                                   |
| air wate | er interactions   |            | Doppler radar  |   | A-330 aircraft                                   |
| UF       | air sea interactions  |            | radar echoes   |   | A-340 aircraft Advanced Range Instrumentation    |
| GS       | gas-liquid interactions                                     |            | radar equipment  |   | Aircraft   |
|          | . air water interactions                                    |            | radar imagery  |   | aerodynamics                                     |
| RT       | air sea ice interactions Atmospheric & Oceanographic Inform |            | radar maps<br>radar receivers  |   | aeronautical engineering                         |
| 17.1     | Sys   |            | radar targets  | ∞ | aeronautics                                      |
|          | Earth cryosphere  |            | remote sensing   |   | aerospace engineering                            |
|          | el Nino   |            | remote sensors   |   | aerospace industry aerospace planes              |
|          | gyres   |            | side-looking radar   |   | aerospace vehicles                               |
| ~        | hydrological cycle<br>interactions                          |            | space based radar space-time adaptive processing                               |   | agricultural aircraft                            |
|          | liquid-gas mixtures   |            | synthetic aperture radar   |   | AH-1S helicopter                                 |
|          | liquid-vapor interfaces                                     |            | .,   |   | AH-1W helicopter                                 |
|          | Madden-Julian Oscillation                                   |            | e radar approach   |   | air data systems aircraft accident investigation |
|          | ocean dynamics  |            | The use of airborne radar for helicopter h control the radar cursor technique. |   | aircraft accidents                               |
|          | ocean models sea surface temperature                        |            | approach   |   | aircraft antennas                                |
|          | water tunnel tests  |            | . airborne radar approach  |   | aircraft approach spacing                        |
|          |   | RT         | air traffic control  |   | aircraft brakes                                  |
|          | e equipment   |            | aircraft approach spacing  |   | aircraft carriers aircraft communication         |
| GS       | onboard equipment . airborne equipment                      |            | helicopter control<br>helicopters  |   | aircraft communication                           |
|          | . airborne equipment . airborne/spaceborne computers        |            | landing aids   |   | aircraft configurations                          |
|          | . Light Airborne Multipurpose                               |            | radar approach control   |   | aircraft construction materials                  |
|          | System  |            |  |   | aircraft control                                 |
|          | TERCOM  |            | e range and orbit determination  |   | aircraft design aircraft detection               |
| RT       | Advanced Range Instrumentation Aircraft                     | UF<br>GS   | AROD (range-orbit determination) orbit determination                           |   | aircraft engines                                 |
|          | airborne radar  | 00         | . airborne range and orbit   |   | aircraft equipment                               |
|          | aircraft communication                                      |            | determination  |   | aircraft fuel systems                            |
|          | aircraft equipment  |            | rangefinding   |   | aircraft fuels                                   |
|          | Astroplane  |            | . airborne range and orbit   |   | aircraft guidance<br>aircraft hazards            |
|          | automatic landing control avionics                          | RT ~       | determination<br>measurement   |   | aircraft hydraulic systems                       |
|          | balloon-borne instruments                                   | 1(1 %      | orbits   |   | aircraft industry                                |
|          | cockpit weather information systems                         |            |  |   | aircraft instruments                             |
|          | electric equipment  |            | e surveillance radar   |   | aircraft lights                                  |
| ~        | equipment   | GS         | radar<br>. airborne radar  |   | aircraft maintenance aircraft maneuvers          |
|          | flight instruments hydraulic equipment                      |            | airborne surveillance radar  |   | aircraft noise                                   |
|          | Kuiper Airborne Observatory                                 |            | . surveillance radar   |   | aircraft parts                                   |
|          | map matching guidance                                       |            | airborne surveillance radar  |   | aircraft performance                             |
|          | MATTS (systems)   | RT         | aircraft instruments   |   | aircraft pilots                                  |
|          | radar equipment   |            | display devices onboard equipment  |   | aircraft production aircraft production costs    |
|          | radio equipment<br>SOFIA (airborne observatory)             |            | onboard equipment  |   | aircraft reliability                             |
|          | vacuum arc switches   |            | Warning and Control System   |   | aircraft runup                                   |
|          |   | USE        | AWACS aircraft   |   | aircraft safety                                  |
|          | e infection   | airborn    | e/spaceborne computers   |   | aircraft specifications aircraft spin            |
| GS       | diseases . infectious diseases                              |            | flight computers   |   | aircraft stability                               |
|          | airborne infection  |            | onboard computers  |   | aircraft structures                              |
| RT       | aerobiology   | 00         | spacecraft computers   |   | aircraft survivability                           |
|          | parasitic diseases  | GS         | data processing equipment . computers  |   | aircraft tires                                   |
| A !!     | - Internated Beauty sincerna                                |            | embedded computer systems  |   | aircraft wakes airships                          |
| System   | e Integrated Reconnaissance                                 |            | airborne/spaceborne  |   | Aladin 2 aircraft                                |
|          | Aerial reconnaissance system incorpo-                       |            | computers  |   | Alouette helicopters                             |
|          | arious modes of detection. Used for                         |            | onboard equipment . airborne equipment   |   | Alpha jet aircraft                               |
|          | econnaissance sys).   |            | airborne/spaceborne computers  |   | amphibious aircraft                              |
| UF<br>GS | AIRS (reconnaissance sys) reconnaissance                    | RT         | data processing  |   | AN-2 aircraft<br>AN-22 aircraft                  |
| GS       | . aerial reconnaissance                                     |            | flight management systems  |   | AN-24 aircraft                                   |
|          | Airborne Integrated   |            | highly maneuverable aircraft   |   | antisubmarine warfare aircraft                   |
|          | Reconnaissance System                                       |            | minicomputers onboard data processing  |   | Antonov aircraft                                 |
| RT       | ground truth  |            | spacecraft components  |   | Argosy MK-1 aircraft ASSET gliders               |
| ~        | photoreconnaissance<br>systems                              |            | spacecraft electronic equipment  |   | ATLIT project                                    |
|          | targets   |            | systems integration  |   | ATR-72 aircraft                                  |
|          | -   | Airbus     |  |   | attack aircraft                                  |
| airborn  |   | USE        | European Airbus  |   | AVRO 707 aircraft AWACS aircraft                 |
| GS       | onboard equipment . airborne lasers                         |            |  |   | B-1 aircraft                                     |
|          | stimulated emission devices                                 | ∞ aircraft |  |   | B-2 aircraft                                     |
|          | . lasers  | SN         | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                   |   | B-26 aircraft                                    |
|          | airborne lasers   |            | LISTED BELOW)  |   | B-47 aircraft                                    |
| RT       | laser applications laser ranger/tracker                     | UF<br>RT   | aerodynamic vehicles<br>A-1 aircraft   |   | B-50 aircraft<br>B-52 aircraft                   |
|          | remote sensors  | IXI        | A-1 aircraft A-2 aircraft  |   | B-52 aircraft                                    |
|          | spaceborne lasers   |            | A-3 aircraft   |   | B-58 aircraft                                    |
|          |   |            | A-4 aircraft   |   | B-66 aircraft                                    |
| airborn  |   |            | A-5 aircraft   |   | B-70 aircraft                                    |
|          | ed August 1992)<br>radar                                    |            | A-6 aircraft A-7 aircraft  |   | BAC 111 aircraft BAC aircraft                    |
| -        |   |            | anoran   |   | z J anoran                                       |

balloons DH 115 aircraft HH-65 helicopter Beagle aircraft DH 121 aircraft highly maneuverable aircraft Beech 99 aircraft DH 125 aircraft Hiller aircraft hovercraft ground effect machines Beechcraft 18 aircraft DHC 2 aircraft Beechcraft aircraft DHC 4 aircraft HP-115 aircraft Bell 214A helicopter DHC 5 aircraft HS-748 aircraft Bell aircraft DO-27 aircraft HS-801 aircraft DO-28 aircraft Hughes aircraft biplanes bird-aircraft collisions DO-31 aircraft hypersonic aircraft Boeing 707 aircraft DO-328 aircraft hypersonic gliders Boeing 717 aircraft Dornier aircraft IL-14 aircraft Boeing 720 aircraft Douglas aircraft IL-62 aircraft Boeing 727 aircraft drone aircraft IL-76 aircraft Boeing 733 aircraft E-2 aircraft IL-86 aircraft Boeing 737 aircraft E-3A aircraft IL-96 aircraft Boeing 747 aircraft Ilyushin aircraft E-4A aircraft Boeing 757 aircraft Earth Resources Survey aircraft inflatable gliders Boeing 767 aircraft EH-101 helicopter Jaguar aircraft Boeing 777 aircraft JAS-39 aircraft Electra aircraft Boeing 2707 aircraft electronic aircraft jet aircraft European Airbus Boeing aircraft iet aircraft noise Bolkow aircraft F-2 aircraft jet provost aircraft bomber aircraft F-4 aircraft Jetstream aircraft boostglide vehicles F-5 aircraft Jindivik target aircraft Brequet 940 aircraft Kaman aircraft F-8 aircraft Breguet 941 aircraft Kawasaki aircraft F-9 aircraft Brequet 1150 aircraft F-14 aircraft L-1011 aircraft L-2000 aircraft Lear jet aircraft lifting reentry vehicles Breguet aircraft F-15 aircraft Buccaneer aircraft F-16 aircraft C-1A aircraft F-17 aircraft C-2 aircraft F-18 aircraft light aircraft light helicopters C-5 aircraft F-22 aircraft F-27 aircraft C-8A augmentor wing aircraft light intratheater transport F-28 transport aircraft C-9 aircraft light transport aircraft C-15 aircraft F-84 aircraft Ling-Temco-Vought aircraft C-17 aircraft F-86 aircraft Lockheed aircraft C-33 aircraft F-89 aircraft Lockheed model 18 aircraft C-35 aircraft F-94 aircraft ∞ low wing aircraft C-46 aircraft F-100 aircraft man powered aircraft C-47 aircraft F-101 aircraft Martin aircraft C-54 aircraft F-102 aircraft Mcdonnell aircraft C-118 aircraft F-104 aircraft McDonnell Douglas aircraft C-119 aircraft F-105 aircraft MD 11 aircraft C-121 aircraft F-106 aircraft MD 80 aircraft C-123 aircraft F-111 aircraft Mercure aircraft C-124 aircraft F-117A aircraft meteorological research aircraft C-130 aircraft Fairchild-Hiller aircraft MH-262 aircraft C-131 aircraft Fairey aircraft MiG aircraft fan in wing aircraft FD 2 aircraft Mil aircraft C-133 aircraft C-135 aircraft military air facilities ∞ military aircraft military helicopters C-140 aircraft Fiat aircraft C-141 aircraft fighter aircraft Firebee 2 target drone aircraft flight test vehicles C-160 aircraft monoplanes Canadair aircraft MRCA aircraft flying platforms multiengine vehicles Mystere 50 aircraft Canberra aircraft cargo aircraft Fokker aircraft ceiling (aircraft capability)
Cessna 172 aircraft Folding Fin aircraft rocket vehicle Navion aircraft free wing aircraft FV-12A aircraft night flights (aircraft) Cessna 205 aircraft Cessna 402B aircraft Nihon aircraft noise prediction (aircraft) Nord 1500 aircraft Nord aircraft G-1 aircraft G-91 aircraft Cessna aircraft G-95/4 aircraft G-222 aircraft Cessna L-19 aircraft Chance-Vought aircraft North American aircraft Chinese aircraft GA-5 aircraft Northrop aircraft general aviation aircraft CL-41 aircraft nuclear propelled aircraft CL-44 aircraft General Dynamics aircraft observation aircraft CL-84 aircraft **GETOL** aircraft onboard equipment CL-600 challenger aircraft gliders OV-1 aircraft CL-823 aircraft ground effect machines OV-10 aircraft COIN aircraft Grumman aircraft P-3 aircraft P-51 aircraft Comet 4 aircraft Gyrodyne aircraft commercial aircraft H-17 helicopter P-160 aircraft commuter aircraft H-19 helicopter P-166 aircraft compound helicopters H-43 helicopter P-308 aircraft Concorde aircraft H-53 helicopter P-1127 aircraft Curtiss-Wright aircraft H-54 helicopter P-1154 aircraft CV-340 aircraft H-56 helicopter PA-34 Seneca aircraft CV-440 aircraft H-60 Helicopter passenger aircraft CV-880 aircraft H-126 aircraft PD-808 aircraft CV-990 aircraft Hamburger aircraft Piaggio aircraft D-558 aircraft Handley Page aircraft Piasecki aircraft Dassault aircraft hang gliders pilotless aircraft Harrier aircraft DC 3 aircraft Piper aircraft planetary aerial vehicles Potez aircraft DC 7 aircraft Hawker Siddeley aircraft DC 8 aircraft heavy lift helicopters DC 9 aircraft Heinkel aircraft powered lift aircraft DC 10 aircraft helicopters propulsion de Havilland aircraft Helio aircraft Questol aircraft HFB-320 aircraft DH 112 aircraft reconnaissance aircraft

### aircraft configurations

|  | 144   | ALC: A.C.   |
|--|---|---|
| remotely piloted vehicles  | Weser aircraft  | flight safety   |
| Republic aircraft  | Westland aircraft   | glide paths   |
| research aircraft  | Westland ground effect machines   | ground based control  |
|  | Westland Whirlwind helicopter   | instrument approach   |
| rigid rotor helicopters  | ·   |   |
| rocket planes  | wing nacelle configurations   | National Airspace Utilization System  |
| rotary wing aircraft   | ∞ winged vehicles   | National Aviation System  |
| rotor systems research aircraft  | X-1 aircraft  | vortex advisory system  |
|  | X-2 aircraft  | vortex avoidance  |
| Ryan aircraft  | X-3 aircraft  | vortex avoidantee   |
| S-2 aircraft   |   |   |
| S-3 aircraft   | X-5 aircraft  | aircraft bases  |
|  | X-13 aircraft   | USE military air facilities   |
| S-61 helicopter  | X-14 aircraft   | -   |
| S-67 helicopter  |   | aircraft brakes   |
| SA-321 helicopter  | X-15 aircraft   |   |
|  | X-19 aircraft   | GS brakes (for arresting motion)  |
| SA-330 helicopter  | X-20 aircraft   | . aircraft brakes   |
| Saab 37 aircraft   | X-21 aircraft   | split flaps   |
| Saab 105 aircraft  | X-21A aircraft  | wing flaps  |
| Saab aircraft  |   |   |
| SC-1 aircraft  | X-22 aircraft   | leading edge flaps  |
|  | X-22A aircraft  | leading edge slats  |
| SC-5 aircraft  | X-24 aircraft   | trailing edge flaps   |
| SC-7 aircraft  | X-29 aircraft   | vortex flaps  |
| Schleicher aircraft  |   |   |
|  | X-31 aircraft   | RT aerodynamic brakes   |
| Scimitar aircraft  | X-36 aircraft   | ∞ aircraft  |
| SE-210 aircraft  | XC-142 aircraft   | antiskid devices  |
| short haul aircraft  |   | ballutes  |
| short takeoff aircraft   | XV-3 aircraft   |   |
|  | XV-4 aircraft   | drag chutes   |
| Siebel aircraft  | XV-5 aircraft   | drag devices  |
| Sikorsky aircraft  | XV-8A aircraft  | thrust reversal   |
| Sikorsky Whirlwind helicopter  |   | towed bodies  |
| single engine aircraft   | XV-9A aircraft  |   |
|  | XV-11A aircraft   | wheel brakes  |
| solar powered aircraft   | XV-15 aircraft  |   |
| spanloader aircraft  |   | aircraft cabins   |
| SR-71 aircraft   | Yak 40 aircraft   |   |
|  | Yakovlev aircraft   | USE aircraft compartments   |
| submersible aircraft   | YC-14 aircraft  |   |
| ∞ subsonic aircraft  | YF-12 aircraft  | aircraft carriers   |
| Sud Aviation aircraft  | 11-12 diloran   | GS surface vehicles   |
| Sukhoi aircraft  |   |   |
|  | aircraft accident investigation   | . aircraft carriers   |
| supersonic aircraft  | GS investigation  | water vehicles  |
| supersonic cruise aircraft research  | accident investigation  | . ships   |
| T-2 aircraft   |   | aircraft carriers   |
| T-28 aircraft  | aircraft accident investigation   |   |
|  | RT ∞ aircraft   | RT ∞ aircraft   |
| T-33 aircraft  | aviation meteorology  | arresting gear  |
| T-37 aircraft  | insurance (contracts)   | ∞ carriers  |
| T-38 aircraft  | modiance (contracts)  |   |
|  |   | military air facilities   |
| T-39 aircraft  | aircraft accidents  | ∞ military aircraft   |
| TACT program   | GS accidents  | military vehicles   |
| tailless aircraft  | . aircraft accidents  | navy  |
|  |   |   |
| tandem rotor helicopters   | bird-aircraft collisions  | nuclear powered ships   |
| tandem wing aircraft   | RT ∞ aircraft   |   |
| tanker aircraft  | aircraft safety   | aircraft communication  |
| target drone aircraft  |   | DEF The conveyance of information to or   |
| 3  | aviation meteorology  |   |
| test vehicles  | collisions  | from aircraft by radio or other signals.  |
| tilt rotor aircraft  | crash landing   | GS communicating  |
| Tilt Rotor Research Aircraft Program   | crashes   | . aircraft communication  |
|  |   |   |
| tilt wing aircraft   | crashworthiness   | telecommunication   |
| training aircraft  | ditching (landing)  | . aircraft communication  |
| transatmospheric vehicles  | emergency landing   | RT aeronautical satellites  |
| transport aircraft   | flight hazards  |   |
| TS-11 aircraft   | night hazards   |   |
| 15-11 aliciali   |   | air traffic control   |
|  | flight safety   | air traffic control<br>airborne equipment   |
| TSR-2 aircraft   |   |   |
|  | human factors engineering   | airborne equipment<br>∞ aircraft  |
| TSR-2 aircraft<br>TU-104 aircraft  | human factors engineering insurance (contracts)   | airborne equipment<br>∞ aircraft<br>approach control  |
| TSR-2 aircraft<br>TU-104 aircraft<br>TU-124 aircraft   | human factors engineering insurance (contracts) malfunctions  | airborne equipment<br>∞ aircraft<br>approach control<br>avionics  |
| TSR-2 aircraft<br>TU-104 aircraft<br>TU-124 aircraft<br>TU-134 aircraft  | human factors engineering insurance (contracts)   | airborne equipment<br>∞ aircraft<br>approach control<br>avionics<br>ground-air-ground communication   |
| TSR-2 aircraft<br>TU-104 aircraft<br>TU-124 aircraft   | human factors engineering insurance (contracts) malfunctions  | airborne equipment<br>∞ aircraft<br>approach control<br>avionics  |
| TSR-2 aircraft<br>TU-104 aircraft<br>TU-124 aircraft<br>TU-134 aircraft  | human factors engineering<br>insurance (contracts)<br>malfunctions<br>midair collisions<br>pilot error  | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons  |
| TSR-2 aircraft<br>TU-104 aircraft<br>TU-124 aircraft<br>TU-134 aircraft<br>TU-144 aircraft<br>TU-154 aircraft  | human factors engineering<br>insurance (contracts)<br>malfunctions<br>midair collisions<br>pilot error<br>runway incursions   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication  |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft   | human factors engineering<br>insurance (contracts)<br>malfunctions<br>midair collisions<br>pilot error  | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons  |
| TSR-2 aircraft<br>TU-104 aircraft<br>TU-124 aircraft<br>TU-134 aircraft<br>TU-144 aircraft<br>TU-154 aircraft  | human factors engineering<br>insurance (contracts)<br>malfunctions<br>midair collisions<br>pilot error<br>runway incursions   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication  |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-54 aircraft TU-204 aircraft Tu-bolev aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-144 aircraft TU-144 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication aircraft compartments   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turbofan aircraft turboprop aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments UF aircraft cabins   |
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| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turboprop aircraft U-2 aircraft U-10 aircraft ultralight aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments UF aircraft cabins aircraft interiors GS compartments . aircraft compartments  |
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| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turbofrop aircraft U-2 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V/STOL aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VATOL aircraft VC-10 aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas missile antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing  | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments  . aircraft compartments  RT ∞ aircraft bays (structural units) cabin atmospheres  ∞ cabins cockpits gondolas   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-904 aircraft Tu-204 aircraft turbofan aircraft turbofrop aircraft U-2 aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V/STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas missile antennas protuberances radar antennas radio antennas aircraft approach spacing   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors  GS compartments  . aircraft compartments  RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins  |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turbofan aircraft turboprop aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VC-10 aircraft vertical takeoff aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas  GS antennas  Aircraft antennas  RT  aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas  aircraft approach spacing  GS spacing  aircraft approach spacing  aircraft approach spacing  | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments  RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turboprop aircraft turboprop aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VC-10 aircraft VC-10 aircraft Vertical takeoff aircraft Victor MK-1 aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres  ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft turbofan aircraft turboprop aircraft turboprop aircraft U-10 aircraft ultralight aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VC-10 aircraft VC-10 aircraft VC-11 aircraft Victor MK-1 aircraft Viscount aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments  . aircraft compartments  RT ∞ aircraft bays (structural units) cabin atmospheres  ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft  |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turboprop aircraft turboprop aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VC-10 aircraft VC-10 aircraft Vertical takeoff aircraft Victor MK-1 aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres  ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turbofan aircraft U-2 aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-35TOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VC-10 aircraft vertical takeoff aircraft Victor MK-1 aircraft Viscount aircraft Viscount aircraft VJ-101 aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control airborne radar approach   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft GS aircraft configurations   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft turbofan aircraft turbofan aircraft turboprop aircraft U-2 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-3TOL aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VC-10 aircraft vertical takeoff aircraft Victor MK-1 aircraft Viscount aircraft Viscount aircraft Viscount aircraft Vidcan aircraft Vulcan aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas missile antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing air traffic control airborne radar approach ∞ aircraft   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft GS aircraft configurations . drooped airfoils   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turbofan aircraft turboprop aircraft U-2 aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V/STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VC-10 aircraft VC-10 aircraft Vertical takeoff aircraft Viscount aircraft Viscount aircraft Viscount aircraft VJ-101 aircraft VUclan aircraft VJ-2 aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas missile antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control airborne radar approach ∞ aircraft aircraft approach aircraft aircraft approach ∞ aircraft aircraft | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft GS aircraft configurations . drooped airfoils RT aerodynamic configurations   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft turbofan aircraft turbofan aircraft turboprop aircraft U-2 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-3TOL aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VC-10 aircraft vertical takeoff aircraft Victor MK-1 aircraft Viscount aircraft Viscount aircraft Viscount aircraft Vidcan aircraft Vulcan aircraft   | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas missile antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing air traffic control airborne radar approach ∞ aircraft   | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft GS aircraft configurations . drooped airfoils   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft turbofan aircraft turboprop aircraft turboprop aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VC-10 aircraft Vertical takeoff aircraft Victor MK-1 aircraft Viscount aircraft VJ-101 aircraft VJ-101 aircraft VJ-2 aircraft VJ-2 aircraft VJ-8 aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control airborne radar approach ∞ aircraft aircraft safety airspace                                       | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft GS aircraft configurations . drooped airfoils RT aerodynamic configurations   |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft Tupolev aircraft turbofan aircraft turbofan aircraft turboprop aircraft U-2 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-22 aircraft V-35 Aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VC-10 aircraft vertical takeoff aircraft Victor MK-1 aircraft Victor MK-1 aircraft Vican aircraft VJ-101 aircraft VJ-2 aircraft VZ-8 aircraft VZ-8 aircraft VZ-8 aircraft | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control airborne radar approach ∞ aircraft aircraft safety airspace approach                              | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations UF fixed-wing aircraft GS aircraft configurations . drooped airfoils RT aerodynamic onfigurations aerodynamic interference ∞ aircraft control |
| TSR-2 aircraft TU-104 aircraft TU-124 aircraft TU-134 aircraft TU-134 aircraft TU-144 aircraft TU-154 aircraft TU-154 aircraft TU-204 aircraft turbofan aircraft turboprop aircraft turboprop aircraft U-10 aircraft U-10 aircraft ultralight aircraft unidentified flying objects utility aircraft V-22 aircraft V-STOL aircraft Valiant aircraft Vampire MK 35 aircraft VATOL aircraft VATOL aircraft VC-10 aircraft Vertical takeoff aircraft Victor MK-1 aircraft Viscount aircraft VJ-101 aircraft VJ-101 aircraft VJ-2 aircraft VJ-2 aircraft VJ-8 aircraft  | human factors engineering insurance (contracts) malfunctions midair collisions pilot error runway incursions weather  aircraft antennas GS antennas . aircraft antennas RT ∞ aircraft loop antennas microwave antennas microwave antennas protuberances radar antennas radio antennas aircraft approach spacing GS spacing . aircraft approach spacing RT aeronautical satellites air traffic control airborne radar approach ∞ aircraft aircraft safety airspace                                       | airborne equipment  ∞ aircraft approach control avionics ground-air-ground communication radar beacons radio communication wireless communication  aircraft compartments  UF aircraft cabins aircraft interiors GS compartments . aircraft compartments RT ∞ aircraft bays (structural units) cabin atmospheres  ∞ cabins cockpits gondolas pressurized cabins windshields  aircraft configurations  UF fixed-wing aircraft GS aircraft configurations . drooped airfoils RT aerodynamic configurations aerodynamic interference                |

 $\infty$  configurations aerodynamic configurations Wankel engines control configured vehicles aeroelastic research wings flared bodies aeronautical engineering aircraft equipment ∞ flight vehicles aeroquatic vehicles GS onboard equipment joined wings ∞ aircraft aircraft equipment low wing aircraft airfoils . . bombing equipment missile configurations blended-wing-body configurations . . ejection seats propulsion system configurations channel wings . flying ejection seats spacecraft configurations compound helicopters . . TERCOM under surface blowing computer aided design airborne equipment upper surface blowing control configured vehicles ∞ aircraft DAST program aircraft hydraulic systems wing roots aircraft lights design aircraft construction aircraft power supplies design optimization USE aircraft structures engine airframe integration aircraft tires engine design automatic landing control aircraft construction materials flight tests automatic pilots DEF A general term designating the materifree wing aircraft avionics als used in manufacturing an aircraft. induced drag commonality GS aircraft construction materials lofting missile design display devices ∞ equipment . airframe materials RT ∞ aircraft multidisciplinary design optimization product development rotor systems research aircraft flight instruments landing aids landing instruments Light Airborne Multipurpose System airframes aluminum-lithium alloys shape optimization ceramic matrix composites composite materials navigation aids short haul aircraft ∞ construction materials streamlining structural design navigation instruments functionally gradient materials radio direction finders fuselages systems engineering lithium alloys Terminal Configured Vehicle Program aircraft fuel systems GS fuel systems
. aircraft fuel systems ∞ materials transatmospheric vehicles materials selection vortex sheets plastic aircraft structures RT ∞ aircraft weight reduction skin (structural member) fuel pumps YF-12 aircraft structural members fuel tank pressurization wings fuel tanks aircraft detection fuel valves detection GS aircraft control ∞ systems aircraft detection To direct the movements of an aircraft RT ∞ aircraft with particular reference to changes in attitude aircraft fuels ∞ detectors and speed. GS fuels F-117A aircraft flap control . aircraft fuels IFF systems (identification) infrared suppression GS aircraft control RT ∞ aircraft antimisting fuels automobile fuels . helicopter control tracking (position) active control air start hydrocarbon fuels ∞ aircraft jet engine fuels Aircraft Energy Efficiency program attitude control USE ACEE program liquid fuels automatic control liquid rocket propellants automatic flight control monopropellants ∞ control aircraft engines slurry propellants control equipment control simulation aircraft power sources solid propellants GS engines tanker aircraft control stability . aircraft engines . . convertible fan-shaft engines control sticks aircraft guidance control sticks controllability DAST program . . helicopter engines GS guidance (motion) . . J-52 engine aircraft guidance . J-52 engine . J-58 engine . J-97 engine . T-34 engine directional control air traffic control engine control ∞ aircraft flight control approach control . . T-34 engine . . T-38 engine . . T-55 engine flight envelopes automated en route ATC flight instruments collision avoidance T-63 engine T-76 engine T-78 engine fly by light control ∞ indicators fly by tube control instrument landing systems fly by wire control radar approach control . TF-30 engine . TF-34 engine . TF-41 engine ground based control radar navigation in-flight simulation radarscopes lateral control radio navigation longitudinal control . . variable cycle engines maneuverability variable stream control engines aircraft hangars ACEE program manual control USE hangars minor circle turning flight air start pilot induced oscillation ∞ aircraft aircraft hazards radio control engine airframe integration GS hazards gas turbine engines . aircraft hazards remote control stability augmentation hydrogen engines . runway incursions turbojet engine control infrared suppression RT air traffic visual control internal combustion engines ∞ aircraft jet engines aircraft icing jet propulsion aviation meteorology The act of conceiving and planning the laser propulsion bird-aircraft collisions structure, systems, and performance characternuclear propulsion birds istics of an aircraft vehicle or any other apparacollisions piston engines tus, machine or contrivance intended to be power supplies crash landing quiet engine program borne up either by dynamic action of the air upon crashes the object's surfaces, or by the object's own rocket engines flight hazards rotary engines flight safety buovancy. T-58 engine foreign bodies aircraft design ĠS

topping cycle engines

turbine engines

human factors engineering

malfunctions

RT

helicopter design acoustic retrofitting

midair collisions tachometers . . . . jet aircraft noise noise (sound) . . . . propeller noise operational hazards aircraft interiors . . . sonic booms refueling USE aircraft compartments RT acoustic retrofitting threat evaluation aeroacoustics aircraft landing toxic hazards aerodynamic noise weather GS landing ∞ aircraft aircraft landing coaxial nozzles aircraft hydraulic systems air cushion landing systems engine noise hydraulic equipment all-weather landing systems Ffowcs Williams-Hawkings equation aircraft hydraulic systems blind landing footprints RT actuators ceilings (meteorology) iet aircraft ∞ aircraft crashworthiness mufflers aircraft equipment emergency landing noise intensity servocontrol enhanced vision noise measurement servomechanisms glide landings noise prediction (aircraft) ∞ systems hard landing noise reduction instrument landing systems synchrophasing aircraft icing landing aids (added August 1991) landing mats aircraft noise prediction DEF Accumulation of ice on aircraft external surfaces, propellers and engine inlets from USE noise prediction (aircraft) landing radar low visibility freezing rain or flight through inclement weather. microwave landing systems aircraft parts wing icing runway alignment RT ∞ aircraft GS ice formation soft landing airfoils aircraft icing spacecraft landing airframes aircraft hazards touchdown channel wings aircraft safety vertical landing control surfaces aviation meteorology fuselages vortex avoidance landing gear deicers water landing oblique wings deicing flight conditions aircraft launching devices protuberances flight hazards takeoff systems swing tail assemblies flight safety GS launchers swing wings ice prevention . aircraft launching devices tail assemblies . JATO engines wings aircraft industry catapults industries aircraft performance . aerospace industry aircraft lights The manner or effectiveness with which an aircraft vehicle or any airborne structure, machine, or contrivance functions while in . . aircraft industry lighting equipment . luminaires GS RT aeronautical engineering ∞ aircraft . aircraft lights operation. aircraft production costs  $RT \, \infty \, aircraft$ aircraft performance GS aircraft equipment . helicopter performance aircraft instruments beacons RT aerodynamic stalling DEF Any electronic or mechanically-based ∞ aircraft instrument or instrument system designed for aircraft maintenance aircraft spin detecting, measuring, displaying, recording, maintenance GS airspeed telemetering, processing, or analyzing different . aircraft maintenance controllability values or quantities encountered in the flight of RT ∞ aircraft Cooper-Harper ratings an aircraft; often supporting the general control checkout distance of the aircraft. flight operations flight characteristics GS aircraft instruments ground support equipment flight envelopes . approach indicators logistics maneuverability . automatic pilots preventive maintenance minimum drag . flight recorders payloads . . flight load recorders aircraft maneuvers ∞ performance . rate of climb indicators maneuvers GS pilot performance RT airborne surveillance radar . aircraft maneuvers pilot ratings RT ∞ aircraft ∞ aircraft specifications approach control flight characteristics altimeters takeoff runs anemometers attitude indicators automatic flight control flight envelopes aircraft pilots flight paths aviators formation flying avionics copilots compasses highly maneuverable aircraft jet pilots display devices maneuverability personnel flight control obstacle avoidance . flying personnel flight instruments trajectory optimization . . pilots (personnel) flight paths transition flight ... aircraft pilots flight test instruments turning flight . . . . test pilots I2S cameras X-31 aircraft . operators (personnel) indicating instruments . . pilots (personnel) instrument approach aircraft models ... aircraft pilots instrument landing systems GS models . . . test pilots ∞ instruments . aircraft models RT ∞ aircraft landing aids dynamic models aviation psychology landing instruments mathematical models flight crews laser altimeters powered models ∞ pilots light emitting diodes scale models ∞ measurement semispan models aircraft power sources measuring instruments spacecraft models USE aircraft engines monitors wind tunnel models aircraft power supplies navigation aids navigation instruments aircraft noise DEF Electric power sources for the normal position indicators GS elastic waves operation of aircraft. radar GS electric power supplies . sound waves . . noise (sound) . aircraft power supplies radio altimeters recording instruments ... aircraft noise aircraft equipment

. . . . blade slap noise

speed indicators

auxiliary power sources

| electric generators                            | solar compasses  | forebodies                                   |
|--|--|--|
| ∞ power supplies                               | terrorism  | hulls (structures)                           |
| 1  | threat evaluation  | interference fit                             |
| aircraft production                            | weather  | leading edge flaps                           |
| UF fuselage mounting                           | wheel brakes   | noses (forebodies)                           |
| RT ∞ aircraft                                  |  | oblique wings                                |
| costs  | aircraft specifications  | pylon mounting                               |
| equipment specifications                       | GS specifications  | shells (structural forms)                    |
| product development                            | . aircraft specifications  | spacecraft structures                        |
| ∞ production                                   | RT ∞ aircraft  | streamlining                                 |
| production engineering                         | airspeed<br>ceiling (aircraft capability)  | ∞ structures                                 |
| aircraft production costs                      | controllability  | swing tail assemblies                        |
| GS costs                                       | distance   | swing wings                                  |
| . production costs                             | flight characteristics   | tail assemblies                              |
| aircraft production costs                      | payloads   | wings  |
| RT ∞ aircraft                                  | payloads   | aircraft aurwiyability                       |
| aircraft industry                              | aircraft spin  | aircraft survivability<br>RT ∞ aircraft      |
| cost estimates                                 | DEF A prolonged stall in fixed-wing aircraft   | combat                                       |
| efficiency                                     | characterized by a sustained spiral descent,   | ∞ construction materials                     |
| ∞ engineering                                  | usually with the nose down.  | durability                                   |
| financial management                           | RT aerodynamic stalling  | flight control                               |
| industries                                     | ∞ aircraft   | helicopters                                  |
| manufacturing                                  | aircraft performance   | life (durability)                            |
| production engineering                         | aircraft safety  | ∞ military aircraft                          |
| production management                          | control stability  | plastic aircraft structures                  |
| productivity                                   | controllability  | reinforced plastics                          |
|  | crash landing  | reliability                                  |
| aircraft reliability                           | flight hazards   | spacecraft survivability                     |
| UF airworthiness                               | flight safety  | survival                                     |
| airworthiness requirements                     | hazards  | survival equipment                           |
| GS reliability                                 | maneuvers  | vulnerability                                |
| aircraft reliability                           | spin dynamics  |  |
| RT ∞ aircraft                                  | -i   | aircraft tires                               |
| certification                                  | aircraft stability  DEF The property of an aircraft to maintain                          | GS tires                                     |
| circuit reliability                            |  | . aircraft tires                             |
| component reliability                          | its attitude or to resist displacement, and if   | RT ∞ aircraft                                |
| helicopter performance                         | displaced, to develop forces and moments tend-<br>ing to restore the original condition. | aircraft equipment                           |
| quality control                                | GS dynamic characteristics   | landing gear                                 |
| structural reliability                         | . dynamic stability  | vehicle wheels                               |
| total quality management vulnerability         | motion stability   |  |
| vullerability                                  | aircraft stability   | aircraft wakes                               |
| aircraft runup                                 | hovering stability   | GS wakes                                     |
| DEF Final engine check prior to takeoff.       | stability  | . aircraft wakes                             |
| GS preflight operations                        | . dynamic stability  | helicopter wakes                             |
| . aircraft runup                               | motion stability   | slipstreams                                  |
| RT ∞ aircraft                                  | aircraft stability   | propeller slipstreams                        |
| engine noise                                   | hovering stability   | RT ∞ aircraft                                |
| engine tests                                   | RT aerodynamic balance   | hypersonic wakes                             |
| ground tests                                   | aerodynamic stability  | laminar wakes                                |
| jet aircraft noise                             | ∞ aircraft   | supersonic wakes                             |
| ,  | attitude stability   | turbulent wakes                              |
| aircraft safety                                | buffeting  | vortex advisory system<br>vortex alleviation |
| DEF Techniques used to prevent aircraft        | control stability  | vortex alleviation                           |
| failures or accidents; the degree to which an  | controllability  | o irorowa                                    |
| aircraft is free of the risk of malfunction or | counterbalances  | aircrews<br>USE <b>flight crews</b>          |
| accidents.                                     | directional stability  | USE Hight crews                              |
| GS safety                                      | flight envelopes   | airdrana                                     |
| . aircraft safety                              | horizontal flight  | airdrops<br>RT air cargo                     |
| RT abort apparatus                             | lateral stability  | cargo  |
| aerospace safety                               | liquid sloshing  | delivery                                     |
| air piracy                                     | longitudinal stability   | drag chutes                                  |
| air traffic control                            | low speed stability  | parachutes                                   |
| ∞ aircraft                                     | pilot induced oscillation  | parafoils                                    |
| aircraft accidents                             | static stability   | paraiono                                     |
| aircraft approach spacing                      | structural stability   | airfield surface movements                   |
| aircraft icing<br>aircraft spin                | turning flight   | RT air cargo                                 |
|  | upper surface blown flaps  | airports                                     |
| all-weather landing systems<br>arresting gear  | wind tunnel stability tests  | hangars                                      |
| Beacon Collision Avoidance System              | wing rock  | materials handling                           |
| collision avoidance                            | aircraft structures  | mobile lounges                               |
| collisions                                     | UF aircraft construction   | runway incursions                            |
| crash landing                                  | GS aircraft structures   | runways                                      |
| crashes  | . airframes  | ∞ surfaces                                   |
| crashworthiness                                | . fuselages  | taxiing                                      |
| ejection seats                                 | . plastic aircraft structures  | •  |
| emergency landing                              | RT aerodynamic interference  | airfields                                    |
| flight hazards                                 | aeroelasticity   | USE airports                                 |
| flight safety                                  | afterbodies  |  |
| flying ejection seats                          | ∞ aircraft   | airfoil characteristics                      |
| landing aids                                   | airfoils   | USE airfoils                                 |
| landing radar                                  | boron-epoxy composites   |  |
| microwave landing systems                      | canard configurations  | airfoil fences                               |
| midair collisions                              | canopies   | GS airfoils                                  |
| National Airspace System                       | centerbodies   | . airfoil fences                             |
| navigation aids                                | channel wings  | RT boundary layer control                    |
| runway incursions                              | control surfaces   | ∞ fences                                     |
| safety devices                                 | fairings   | vortex generators                            |

|                 | wings   |    | supercritical wings                                |          | tail assemblies                              |
|-----------------|---|----|--|----------|--|
|                 | winge   |    | . supersonic airfoils                              |          | thickness ratio                              |
|                 | scillations                                       |    | . tabs (control surfaces)                          |          | trailing edges                               |
| DEF             | Periodic motions experienced by air-              |    | thin airfoils                                      |          | turbomachine blades                          |
| GS IN 8         | aerodynamic conditions. oscillations              |    | thin wings   |          | vanes  |
| 00              | . airfoil oscillations                            |    | infinite span wings                                |          | waveriders<br>wedges                         |
|                 | wing oscillations                                 |    | . wings  |          | wougoo                                       |
|                 | wing rock   |    | aeroelastic research wings cambered wings          |          | e materials                                  |
| RT              | aerodynamic stability                             |    | caret wings  | GS       | aircraft construction materials              |
|                 | aeroelasticity aeroservoelasticity                |    | channel wings                                      | RT       | . airframe materials airframes               |
|                 | flapping  |    | cruciform wings                                    | IXI      | aluminum-lithium alloys                      |
|                 | flutter   |    | fixed wings  |          | composite materials                          |
|                 | flutter analysis                                  |    | flexible wings                                     | ~        | construction materials                       |
|                 | rotary stability                                  |    | parawings<br>GAW-1 airfoil                         |          | functionally gradient materials              |
|                 | structural vibration undamped oscillations        |    | GAW-2 airfoil                                      | ~        | glass fiber reinforced plastics<br>materials |
|                 | vibration   |    | joined wings                                       | ~        | materials selection                          |
|                 | vibration mode                                    |    | low aspect ratio wings                             |          | structural design                            |
|                 |   |    | delta wings  |          | structural members                           |
| airfoil p       |   |    | trapezoidal wings mission adaptive wings           | airframe | 20   |
| UF              | aerodynamic chords<br>airfoil sections            |    | oblique wings                                      | DEF      | The assembled structural and aerody-         |
|                 | airfoil thickness                                 |    | rigid wings  |          | components of an aircraft or rocket ve-      |
|                 | Clark Y airfoil                                   |    | rotary wings                                       |          | at support the different systems and         |
| GS              | airfoil profiles                                  |    | circulation control rotors                         |          | ems integral to the vehicle.                 |
|                 | . wing profiles                                   |    | lifting rotors bearingless rotors                  | GS       | aircraft structures . airframes              |
| RT              | wing span aerodynamic interference                |    | rigid rotors                                       |          | frames                                       |
|                 | airfoils  |    | tilting rotors                                     |          | . airframes                                  |
|                 | blade tips  |    | tip driven rotors                                  | RT       | aircraft construction materials              |
| ~               | cross sections                                    |    | x wing rotors                                      |          | aircraft parts                               |
|                 | Joukowski transformation                          |    | slender wings<br>infinite span wings               |          | airframe materials                           |
|                 | Kutta-Joukowski condition Lighthill method        |    | supercritical wings                                |          | bays (structural units) canopies             |
|                 | nose tips   |    | swept wings  |          | control surfaces                             |
| ~               | profiles  |    | swept forward wings                                |          | engine airframe integration                  |
|                 | shape optimization                                |    | trapezoidal wings                                  |          | fins   |
|                 | streamlining                                      |    | sweptback wings arrow wings                        |          | fuselages                                    |
|                 | supercritical airfoils Theodorsen transformation  |    | delta wings  |          | landing gear<br>missile bodies               |
|                 | thickness   |    | trapezoidal wings                                  |          | missile structures                           |
|                 | thickness ratio                                   |    | swing wings  |          | nacelles                                     |
|                 | thin airfoils                                     |    | thin wings   |          | protuberances                                |
|                 | thin wings  |    | infinite span wings twisted wings                  |          | tail assemblies                              |
|                 | tips<br>wedges                                    |    | uncambered wings                                   |          | wing nacelle configurations wings            |
|                 | wing tips   |    | ring wings   |          | Willigs                                      |
|                 | 9   |    | unswept wings                                      | Airgeep  | aircraft                                     |
| airfoil se      |   |    | infinite span wings                                | USE      | VZ-8 aircraft                                |
| USE             | airfoil profiles                                  |    | rectangular wings ring wings                       | airglow  |  |
| airfoil th      | ickness   |    | variable sweep wings                               | DEF      | The quasi-steady radiant emission            |
| USE             |   | RT | aerodynamic configurations                         |          | e upper atmosphere as distinguished          |
|                 |   |    | aerodynamics                                       |          | sporadic emission of the auroras. Used       |
| airfoils<br>DEF | Structures, pieces, or bodies, originally         |    | aircraft design                                    |          | espheric emission.                           |
|                 | to foils or leaves in being wide and thin,        |    | aircraft parts aircraft structures                 | UF<br>GS | atmospheric emission atmospheric radiation   |
|                 | d to obtain a useful reaction on them-            |    | airfoil profiles                                   | 00       | . sky radiation                              |
|                 | n their motion through the air. Used for          |    | aspect ratio                                       |          | airglow                                      |
|                 | naracteristics.                                   |    | ∞ blades   |          | geocoronal emissions                         |
| UF<br>GS        | airfoil characteristics airfoils                  |    | blade-vortex interaction blunt leading edges       |          | nightglow twilight glow                      |
| 00              | . aerial rudders                                  |    | blunt trailing edges                               |          | electromagnetic radiation                    |
|                 | . ailerons  |    | body-wing configurations                           |          | . light (visible radiation)                  |
|                 | flaperons   |    | camber   |          | sky radiation                                |
|                 | spoiler slot ailerons                             |    | control surfaces                                   |          | airglow                                      |
|                 | . airfoil fences . circulation control airfoils   |    | deicers<br>deicing                                 |          | geocoronal emissions                         |
|                 | circulation control rotors                        |    | fins   |          | nightglow<br>twilight glow                   |
|                 | . drooped airfoils                                |    | ∞ foils  | RT       | aeronomy                                     |
|                 | . elevators (control surfaces)                    |    | foils (materials)                                  |          | atmospheric ionization                       |
|                 | . elevons   |    | guide vanes  |          | auroras                                      |
|                 | . flaps (control surfaces) externally blown flaps |    | hydrofoils   |          | chemiluminescence                            |
|                 | upper surface blown flaps                         |    | interactional aerodynamics jet vanes               |          | Earth atmosphere emission                    |
|                 | flaperons   |    | leading edge thrust                                |          | Fabry-Perot spectrometers                    |
|                 | jet flaps   |    | leading edges                                      |          | light emission                               |
|                 | split flaps                                       |    | lift   |          | night sky                                    |
|                 | wing flaps  |    | lifting bodies                                     |          | oxygen spectra                               |
|                 | leading edge flaps leading edge slats             |    | Lighthill method monoplanes                        |          | radiative recombination Rayleigh scattering  |
|                 | trailing edge flaps                               |    | rotor blades (turbomachinery)                      |          | sky brightness                               |
|                 | vortex flaps                                      |    | rotors   |          |  |
|                 | horizontal tail surfaces                          |    | rudders  |          | pperations                                   |
|                 | . laminar flow airfoils                           |    | sharp leading edges                                | RT       | air cargo                                    |
|                 | . propeller blades<br>. spoilers                  |    | stabilizers (fluid dynamics)<br>streamlined bodies |          | air traffic air transportation               |
|                 |   |    | streamlining                                       |          | civil aviation                               |
|                 | . supercritical airfoils                          |    | Streamining  |          |  |

|   | commercial aircraft  | . airport towers   | wind velocity   |
|---|--|--|---|
|   | operating costs  | RT air traffic control   |   |
|   | operational problems   | air traffic controllers (personnel)  | airworthiness   |
| 00  | operations   | airports   | USE aircraft reliability  |
|   | passengers   | ground based control   |   |
|   | short haul aircraft  | heliports  | airworthiness requirements  |
|   |  | landing aids   | USE aircraft reliability  |
|   | modules  | traffic control  | Almo formation  |
|   | Modular chambers capable of being  |  | Airy function   |
|   | cally sealed that provide for passage  |  | GS analysis (mathematics)   |
|   | two places of different pressure as  | airports   | . complex variables   |
|   | an altitude chamber and the outside  | DEF An area of land or water that is used, or  | Airy function functions (mathematics)   |
| atmosph   |  | intended to be used, for the landing and takoff of   | . Airy function   |
| GS  | •  | aircraft, including buildings and facilities, if any.  | RT cylindrical bodies   |
|   | . air locks  | UF airfields   | differential equations  |
|   | airlock modules<br>modules   | GS airports  | elastic properties  |
|   | . airlock modules  | . heliports  | harmonic functions  |
| RT  | Apollo applications program  | RT ∞ aeronautics   | Poisson ratio   |
| 111   | multiple docking adapters  | air traffic control  | stress analysis   |
|   | Saturn 1 workshop  | airfield surface movements   | ,   |
|   | Saturn 5 workshop  | airport security   | Aitken nuclei   |
|   | Saturn workshops   | airport towers   | DEF Microscopic particles in the atmo-  |
|   | Skylab 1   | ∞ facilities   | sphere which serve as condensation nuclei for   |
|   | Skylab 2   | hangars  | droplet growth during the rapid adiabatic expan-  |
|   | Skylab 3   | instrument landing systems   | sion produced by an Aitken dust counter.  |
|   | Skylab 4   | landing aids   | GS condensation nuclei  |
|   | Skylab program   | landing mats   | . Aitken nuclei   |
|   | space station modules  | military air facilities<br>mobile lounges  | RT aerosols   |
|   | spacecraft docking modules   | mooring  | atmospheric chemistry   |
|   | •  | National Airspace System   | atmospheric composition   |
| airport   | beacons  | navigation aids  | cloud physics   |
| GS  | landing aids   | ∞ ports  | coagulation   |
|   | . airport beacons  | runways  | condensates   |
|   | discrete address beacon system   | site selection   | crystal growth  |
|   | navigation aids  | ∞ strip  | dust  |
|   | . beacons  | oo strip   | ice nuclei  |
|   | airport beacons  |  | nucleation  |
|   | discrete address beacon system   | AIDC (   | ∞ nuclei<br>  |
| RT  | radio beacons  | AIRS (reconnaissance sys)  | supercooling  |
|   | solar compasses  | USE Airborne Integrated  | A L 40 ampina   |
|   |  | Reconnaissance System  | AJ-10 engine  |
| airport   |  |  | GS engines<br>. rocket engines  |
| GS  | landing aids   |  | . Tocket engines  |
|   |  |  | hooster rocket engines  |
|   | . airport lights   | airships   | booster rocket engines  |
|   | runway lights  | DEF Propelled and steerable dirigibles de-   | AJ-10 engine  |
|   | runway lights<br>lighting equipment  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aero-  | AJ-10 engine liquid propellant rocket engines   |
|   | runway lights<br>lighting equipment<br>. luminaires  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  | AJ-10 engine liquid propellant rocket engines AJ-10 engine  |
|   | runway lights<br>lighting equipment<br>. luminaires<br>airport lights  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats  | AJ-10 engine liquid propellant rocket engines   |
| RT  | runway lights<br>lighting equipment<br>. luminaires<br>airport lights<br>runway lights   | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles   | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  |
| RT  | runway lights<br>lighting equipment<br>. luminaires<br>airport lights  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles GS airships   | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine  |
|   | runway lights lighting equipment . luminaires airport lights runway lights searchlights  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  |
| airport   | runway lights lighting equipment . luminaires airport lights runway lights searchlights  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft   | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine  |
|   | runway lights lighting equipment . luminaires airport lights runway lights searchlights planning planning  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons  | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine   |
| airport   | . runway lights lighting equipment . luminaires . airport lights runway lights searchlights planning planning airport planning   | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas   | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite  |
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| airport<br>GS   | runway lights lighting equipment . luminaires airport lights runway lights searchlights  planning planning airport planning ground support equipment heliports land use  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft   | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds   |
| airport<br>GS<br>RT   | . runway lights lighting equipment . luminaires . airport lights runway lights searchlights  planning planning airport planning ground support equipment heliports land use sites  security  | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft  | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds . calcium carbonates  |
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| airport GS RT  airport DEF sonnel, procedu airline p ees, and unautho GS RT  airport UF RT  | . runway lights lighting equipment . luminaires . airport lights runway lights searchlights  planning planning planning ground support equipment heliports land use sites  security  Organization of trained security persurveillance and screening devices, and res used for the protection of airport and roperty, aircraft, passengers, employ- divisitors from injury, air piracy, and other rized acts. security airport security airport security air piracy airports explosives detection ion mobility spectroscopy protection terrorism vulnerability  surface detection equipment  ASDE air traffic control   | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft  airspace  DEF The atmosphere above a particular portion of the earth, usually defined by the boundaries of an area on the surface projected perpendicularly upward.  RT air law air traffic air traffic control aircraft approach spacing boundaries collision avoidance flight paths National Airspace System National Airspace Utilization System  airspeed  GS rates (per time) . airspeed velocity . airspeed RT aerodynamic stalling  | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds . calcium carbonates akermanite carbon compounds . calcium oxides akermanite carbon compounds . carbonates akermanite chalcogenides vides metal oxides alkaline earth oxides calcium oxides akermanite magnesium oxides akermanite magnesium compounds akermanite magnesium compounds akermanite magnesium compounds magnesium oxides akermanite magnesium oxides akermanite magnesium oxides akermanite magnesium oxides akermanite minerals   |
| airport GS RT  airport DEF sonnel, procedu airline p ees, and unautho GS RT  airport UF RT  | . runway lights lighting equipment . luminaires . airport lights runway lights searchlights  planning planning planning ground support equipment heliports land use sites  security  Organization of trained security persurveillance and screening devices, and res used for the protection of airport and property, aircraft, passengers, employ- divisitors from injury, air piracy, and other rized acts. security air piracy airports security air piracy airports explosives detection ion mobility spectroscopy protection terrorism vulnerability  surface detection equipment  ASDE air traffic control equipment   | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft  airspace  DEF The atmosphere above a particular portion of the earth, usually defined by the boundaries of an area on the surface projected perpendicularly upward.  RT air law air traffic air traffic air traffic control aircraft approach spacing boundaries collision avoidance flight paths National Airspace System National Airspace Utilization System  airspeed  GS rates (per time) . airspeed  RT aerodynamic stalling aircraft performance  | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds . calcium carbonates akermanite calcium oxides akermanite carbon compounds . calcium carbonates akermanite carbon compounds . calcium carbonates akermanite chalcogenides oxides metal oxides alkaline earth oxides akermanite magnesium oxides akermanite magnesium compounds magnesium oxides akermanite magnesium compounds akermanite magnesium compounds akermanite minerals akermanite RT silicates silicon compounds   |
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| airport GS RT  airport DEF Sonnel, procedu airline p ees, and unautho GS RT  airport UF RT  | . runway lights lighting equipment . luminaires . airport lights runway lights searchlights  planning planning planning planning ground support equipment heliports land use sites  security  Organization of trained security persurveillance and screening devices, and res used for the protection of airport and property, aircraft, passengers, employ- divisitors from injury, air piracy, and other rized acts. security air piracy air piracy air piracy airports explosives detection ion mobility spectroscopy protection terrorism vulnerability  surface detection equipment  ASDE air traffic control equipment ground based control radar equipment runway incursions search radar   | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft  airspace  DEF The atmosphere above a particular portion of the earth, usually defined by the boundaries of an area on the surface projected perpendicularly upward.  RT air law air traffic air traffic air traffic air traffic control aircraft approach spacing boundaries collision avoidance flight paths National Airspace System National Airspace Utilization System  airspeed  GS rates (per time) . airspeed  GS rates (per time) . airspeed  RT aerodynamic stalling aircraft specifications boundary layer separation flight characteristics ground speed | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds . calcium carbonates akermanite carbon compounds . calcium oxides akermanite carbon compounds . calcium carbonates akermanite chalcogenides oxides akermanite chalcogenides alkaline earth oxides alkaline earth oxides akermanite magnesium oxides akermanite magnesium compounds akermanite magnesium compounds akermanite magnesium compounds akermanite magnesium oxides akermanite minerals akermanite RT silicates silicon compounds silicon oxides  Alabama GS nations   |
| airport DEF sonnel, procedu airline pees, and unautho GS RT                                 | ighting equipment Iuminaires Iuminaires Iuminaires Iighting equipment Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iplanning Iplannin | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft  airspace  DEF The atmosphere above a particular portion of the earth, usually defined by the boundaries of an area on the surface projected perpendicularly upward.  RT air law air traffic air traffic air traffic control aircraft approach spacing boundaries collision avoidance flight paths National Airspace System National Airspace Utilization System  airspeed  GS rates (per time) . airspeed  RT aerodynamic stalling aircraft specifications boundary layer separation flight characteristics ground speed high speed  | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds . calcium carbonates akermanite carbon compounds . calcium oxides akermanite carbon compounds . calcium carbonates akermanite chalcogenides oxides metal oxides alkaline earth oxides alkaline earth oxides akermanite magnesium oxides akermanite magnesium compounds akermanite magnesium compounds akermanite magnesium compounds akermanite magnesium oxides akermanite minerals akermanite RT silicates silicon compounds silicon oxides  Alabama GS nations . United States   |
| airport GS RT  airport DEF sonnel, procedu airline p ees, and unautho GS RT  airport UF RT  | ighting equipment Iuminaires Iuminaires Iuminaires Iighting equipment Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iuminaires Iplanning Iplannin | DEF Propelled and steerable dirigibles dependent on gases for flotation. Used for aerostats and dirigibles.  UF aerostats dirigibles  GS airships . heavy lift airships  RT ∞ aircraft balloons gondolas inflatable structures ∞ military aircraft  airspace  DEF The atmosphere above a particular portion of the earth, usually defined by the boundaries of an area on the surface projected perpendicularly upward.  RT air law air traffic air traffic air traffic air traffic control aircraft approach spacing boundaries collision avoidance flight paths National Airspace System National Airspace Utilization System  airspeed  GS rates (per time) . airspeed  GS rates (per time) . airspeed  RT aerodynamic stalling aircraft specifications boundary layer separation flight characteristics ground speed | AJ-10 engine liquid propellant rocket engines AJ-10 engine RT tartar missile  AJ-1000 engine USE M-1 engine  Akebono satellite USE EXOS-D satellite  akermanite DEF A mineral of the melilite group. It is isomorphous with gehlenite. GS calcium compounds . calcium carbonates akermanite carbon compounds . calcium oxides akermanite carbon compounds . calcium carbonates akermanite chalcogenides oxides alkaline earth oxides alkaline earth oxides akermanite magnesium oxides akermanite magnesium compounds . magnesium oxides akermanite magnesium compounds akermanite magnesium compounds akermanite magnesium compounds akermanite minerals akermanite RT silicates silicon compounds silicon oxides  Alabama GS nations  |

landforms

. islands

Alaska

archipelagoes

island arcs

. Aleutian Islands (US)

GS

RT

. . Alberta

diseases

pigments

albinism

albinism

GS

RT

photosynthesis

phytoplankton

thermophiles

thermophilic plants

plankton plastids

|           | water pollution                    |                 | Scout launch vehicle   | alkynes                                     |
|-----------|------------------------------------|-----------------|--|---|
|           |                                    |                 |  | acetylene                                   |
| algal blo |                                    |                 | mic oriented language  | oxyacetylene                                |
| USE       | aigae                              | USE             | ALGOL  | dienes                                      |
| algebra   |                                    | .120            |  | butadiene                                   |
| GS        | algebra                            | algoritl        |  | heptadiene                                  |
| 00        | . binomial theorem                 | DEF             |  | hexadiene<br>polybutadiene                  |
|           | . current algebra                  | GS              | a particular type of problem. mathematical logic             | carotenoids                                 |
|           | . determinants                     | 00              | . algorithms   | RT ∞ aliphatic compounds                    |
|           | . group theory                     |                 | backpropagation (artificial                                  | terpenes                                    |
|           | homomorphisms                      |                 | intelligence)  |   |
|           | automorphisms                      |                 | genetic algorithms   | alkali halides                              |
|           | monoids                            |                 | greedy algorithms  | GS halogen compounds                        |
|           | subgroups                          |                 | parsing algorithms   | . halides                                   |
|           | . lie groups                       |                 | simplex method   | metal halides                               |
|           | spinor groups . linear equations   |                 | sorting algorithms   | alkali halides                              |
|           | Ffowcs Williams-Hawkings           | RT              | computer programming   | cesium halides                              |
|           | equation                           |                 | computer programs  | cesium bromides                             |
|           | linear evolution equations         |                 | computer systems programs                                    | cesium fluorides                            |
|           | Riccati equation                   |                 | computerized simulation conjugate gradient method            | cesium iodides<br>potassium iodides         |
|           | . linear transformations           |                 | data conversion routines                                     | sodium bromides                             |
|           | . nonlinear equations              |                 | differential analyzers                                       | sodium chlorides                            |
|           | cubic equations                    |                 | factorization  | sodium fluorides                            |
|           | Duffing differential equation      |                 | fuzzy sets   | sodium iodides                              |
|           | Monge-Ampere equation              |                 | fuzzy systems  |   |
|           | nonlinear evolution equations      |                 | Hessian matrices   |   |
|           | quadratic equations                |                 | mean square values   | SN (USE OF A MORE SPECIFIC TERM IS          |
|           | quartic equations                  |                 | numerical analysis   | RECOMMENDEDCONSULT THE TERMS                |
|           | . polynomials                      |                 | numerical differentiation                                    | LISTED BELOW) UF Group 1A compounds         |
|           | binomials                          |                 | parameterization   | RT cesium compounds                         |
|           | dyadics Hermitian polynomial       |                 | robustness (mathematics)                                     | ∞ chemical compounds                        |
|           | . tensors                          |                 | state estimation   | fullerides                                  |
|           | stress tensors                     |                 | systolic arrays  | lithium compounds                           |
|           | . vector spaces                    |                 |  | ∞ metal compounds                           |
|           | Banach space                       | alignm          |  | potassium compounds                         |
|           | Hilbert space                      | GS              | alignment . self alignment                                   | rubidium compounds                          |
|           | Sobolev space                      | RT              | adjusting  | sodium compounds                            |
|           | matrices (mathematics)             | IXI             | bearing (direction)  |   |
|           | adjoints                           |                 | clearances   | alkali metals                               |
|           | canonical forms                    |                 | collimation  | DEF Metals in group IA of the periodic sys  |
|           | eigenvalues                        |                 | correction   | tem; namely, lithium, sodium, potassium, ru |
|           | eigenvectors                       |                 | directivity  | bidium, cesium, and francium.               |
|           | Hessian matrices                   |                 | fitting  | GS chemical elements                        |
|           | Jordan form                        |                 | horizontal orientation                                       | . alkali metals<br>cesium                   |
|           | stiffness matrix                   |                 | instrument orientation                                       | cesium isotopes                             |
|           | Stokes theorem (vector calculus)   |                 | look angles (electronics)                                    | cesium 133                                  |
|           | U spin space vectors (mathematics) |                 | ∞ orientation  | cesium 134                                  |
|           | eigenvectors                       |                 | ply orientation  | cesium 137                                  |
|           | state vectors                      |                 | polarization (spin alignment)                                | cesium 144                                  |
|           | vorticity                          |                 | positioning  | cesium vapor                                |
| RT        | analysis (mathematics)             |                 | vertical orientation   | francium                                    |
|           | analyzing                          | alinhat         | io compoundo   | lithium                                     |
|           | Boolean algebra                    | ∞ aliphai<br>SN | tic compounds  | liquid lithium                              |
|           | coordinates                        | SIN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | lithium isotopes                            |
|           | functions (mathematics)            | 5.7             | LISTED BELOW)  | potassium                                   |
|           | homotropy                          | RT              | aliphatic hydrocarbons                                       | liquid potassium                            |
| ~         | mathematics                        |                 | amines   | potassium isotopes                          |
|           | Schwartz inequality                |                 | fatty acids  | potassium 38                                |
| ~         | science                            |                 | molecular chains organic compounds                           | potassium 39<br>potassium 40                |
|           | semiempirical equations            |                 | organic compounds  | rubidium                                    |
| ~         | space                              | alinhat         | ic hydrocarbons  | rubidium isotopes                           |
|           | sums<br>uniqueness theorem         | GS              | organic compounds  | rubidium 86                                 |
|           | uniqueness meorem                  | 00              | . hydrocarbons   | sodium                                      |
| Algeria   |                                    |                 | aliphatic hydrocarbons                                       | liquid sodium                               |
| GS        | nations                            |                 | alkanes  | sodium isotopes                             |
|           | . Algeria                          |                 | butanes  | sodium 22                                   |
| RT        | Africa                             |                 | cetane   | sodium 24                                   |
|           |                                    |                 | ethane   | sodium vapor                                |
| ALGOL     |                                    |                 | heptanes   | metals                                      |
| UF        | algorithmic oriented language      |                 | methane  | . alkali metals                             |
| GS        | languages                          |                 | nitropropane   | cesium                                      |
|           | . programming languages            |                 | nonanes  | cesium isotopes                             |
| D.T.      | ALGOL                              |                 | octanes  | cesium 133                                  |
| RT        | computer programming               |                 | paraffins  | cesium 134                                  |
|           | machine oriented languages         |                 | ceresin  | cesium 137<br>cesium 144                    |
| Algol ei  | naine                              |                 | pentanes neopentane  | cesium 144                                  |
| GS GS     | engines                            |                 | propane  | cesium vapor<br>francium                    |
| 00        | . rocket engines                   |                 | alkenes  | lithium                                     |
|           | booster rocket engines             |                 | butenes  | liquid lithium                              |
|           | Algol engine                       |                 | ethylene   | lithium isotopes                            |
|           | solid propellant rocket engines    |                 | vinylidene   | potassium                                   |
|           | Algol engine                       |                 | hexenes  | liquid potassium                            |
| RT        | Blue Scout rocket vehicle          |                 | propylene  | potassium isotopes                          |
|           | Little Joe 2 launch vehicle        |                 | trienes  | potassium 38                                |

|           | potassium 39                                 | RT       | alkalies                 |              | neopentane               |
|-----------|--|----------|--------------------------|--------------|--------------------------|
|           | potassium 40                                 |          | bases (chemical)         |              | propane                  |
|           | rubidium                                     |          | chemical analysis        | RT           | ,                        |
|           | rubidium isotopes                            |          | chemical composition     |              | waxes                    |
|           | rubidium 86                                  |          | pH                       |              |                          |
|           | sodium                                       |          | salinity                 | alkenes      | <b>.</b>                 |
|           | liquid sodium                                |          | soil sampling            | UF           | olefins                  |
|           | sodium isotopes                              |          | water pollution          | GS           | organic compounds        |
|           | sodium 22                                    |          | water quality            |              | . hydrocarbons           |
|           | sodium 24                                    |          |                          |              | aliphatic hydrocarbons   |
|           | sodium vapor                                 | alkaloid | S                        |              | alkenes                  |
| RT        | cesium alloys                                | GS       | bases (chemical)         |              | butenes                  |
|           | metal vapors                                 |          | . alkaloids              |              | ethylene                 |
|           |  |          | atropine                 |              | vinylidene               |
| alkali va | apor lamps                                   |          | betaines                 |              | hexenes                  |
| DEF       | Lamps in which light is produced by an       |          | caffeine                 |              | propylene                |
| electric  | discharge between electrodes in an al-       |          | colchicine               |              | trienes                  |
|           | or at low or high pressures.                 |          | ergotamine               | DT           |                          |
|           | lighting equipment                           |          | hyoscine                 | RT           | ,                        |
|           | . luminaires                                 |          | lysergine                |              | oxetane polymers         |
|           | flash lamps                                  |          | morphine                 |              | terpenes                 |
|           | alkali vapor lamps                           |          | nicotinamide             |              |                          |
| RT        | lasers                                       |          | nicotine                 | alkoxid      | es                       |
| IXI       |  |          |                          | (adde        | ed January 1995)         |
|           | luminescence                                 |          | pilocarpine              | ÙF           | alcoholates              |
|           | metal vapors                                 |          | reserpine                | GS           | chalcogenides            |
|           | rare earth elements                          |          | strychnine               |              | . oxides                 |
| -1111     |  |          | . tropyl compounds       |              | alkoxides                |
| alkalies  |  |          | nitrogen compounds       | RT           | alcohols                 |
| UF        | caustics                                     |          | . alkaloids              | 17.1         | organometallic compounds |
| GS        | bases (chemical)                             |          | atropine                 |              |                          |
|           | . alkalies                                   |          | betaines                 |              | sol-gel processes        |
|           | lithium hydroxides                           |          | caffeine                 |              |                          |
|           | potassium hydroxides                         |          | colchicine               | alkyd re     | esins                    |
|           | sodium hydroxides                            |          | ergotamine               | GS           | resins                   |
| RT        | alkalinity                                   |          | hyoscine                 |              | . alkyd resins           |
|           | carbonates                                   |          | lysergine                | RT           | adhesives                |
|           | hydroxides                                   |          | morphine                 |              | protective coatings      |
|           | Trydroxidoo                                  |          | nicotinamide             |              | protoctive coatings      |
| alkaline  | batteries                                    |          |                          |              |                          |
| GS        | electric generators                          |          | nicotine                 |              | ompounds                 |
| 00        | . direct power generators                    |          | pilocarpine              | GS           |                          |
|           |  |          | reserpine                |              | . alkylidene             |
|           | primary batteries                            |          | strychnine               |              | . cetyl compounds        |
|           | alkaline batteries                           |          | tropyl compounds         |              | . dibutyl compounds      |
|           | electrochemical cells                        |          | organic compounds        |              | . hexyl compounds        |
|           | electric batteries                           |          | . cyclic compounds       |              | . isopropyl nitrate      |
|           | primary batteries                            |          | . heterocyclic compounds |              | . methyl nitrate         |
|           | alkaline batteries                           |          | alkaloids                |              | . propyl nitrate         |
| RT        | storage batteries                            |          | atropine                 |              | . tetrabutyls            |
|           | thermal batteries                            |          | betaines                 |              | . triethyl compounds     |
|           |  |          | caffeine                 |              |                          |
| alkaline  | e earth compounds                            |          | colchicine               | DT           | . trimethyl compounds    |
| SN        | (USE OF A MORE SPECIFIC TERM IS              |          | ergotamine               | KI ×         | chemical compounds       |
|           | RECOMMENDEDCONSULT THE TERMS                 |          | hyoscine                 |              | organic compounds        |
| HE        | LISTED BELOW)                                |          | lysergine                |              |                          |
| UF        | Group 2A compounds                           |          | , 0                      | alkylate     | es                       |
| RT        | alkaline earth metals                        |          | morphine                 | ĞS           | esters                   |
|           | alkaline earth oxides                        |          | nicotinamide             |              | . alkylates              |
|           | barium compounds                             |          | nicotine                 | RT           | alkylation               |
|           | beryllium compounds                          |          | pilocarpine              |              |                          |
|           | calcium compounds                            |          | reserpine                | . 11 . 1 . 4 |                          |
| ~         | o chemical compounds                         |          | strychnine               | alkylatio    |                          |
|           | magnesium compounds                          |          | tropyl compounds         | UF           | oxyalkylation            |
|           | strontium compounds                          | RT       | curare                   | GS           | chemical reactions       |
|           | strontium oxides                             |          | drugs                    |              | . alkylation             |
|           |  |          | marijuana                | RT           | alkylates                |
| alkaline  | e earth metals                               |          | quinoline                |              | Friedel-Craft reaction   |
| GS        | chemical elements                            |          | 4                        |              | methylation              |
|           | . alkaline earth metals                      | alkalosi | s                        |              | refining                 |
|           | barium isotopes                              | RT       | acidosis                 |              | Ü                        |
|           | metals                                       | 111      | hyperventilation         | -1116        |                          |
|           | . alkaline earth metals                      |          | pH                       | alkylfer     |                          |
|           | barium isotopes                              |          | pH factor                | GS           | iron compounds           |
| DT.       |  |          |                          |              | . ferrocenes             |
| KI «      | ◦ alkaline earth compounds                   |          | toxicity                 |              | alkylferrocene           |
| ومالوبالو | searth evides                                | alkanes  |                          |              | organometallic compounds |
|           | e earth oxides                               |          |                          |              | . ferrocenes             |
| GS        | chalcogenides                                | UF       | saturated hydrocarbons   |              | alkylferrocene           |
|           | . oxides                                     | GS       | organic compounds        |              |                          |
|           | metal oxides                                 |          | . hydrocarbons           | alkylide     | ne                       |
|           | alkaline earth oxides                        |          | aliphatic hydrocarbons   | GS           |                          |
|           | barium oxides                                |          | alkanes                  | GS           | alkyl compounds          |
|           | beryllium oxides                             |          | butanes                  |              | . alkylidene             |
|           | alexandrite                                  |          | cetane                   |              |                          |
|           | calcium oxides                               |          | ethane                   | alkynes      | •                        |
|           | akermanite                                   |          | heptanes                 | ĞS           | organic compounds        |
|           | magnesium oxides                             |          | methane                  |              | . hydrocarbons           |
|           | akermanite                                   |          | nitropropane             |              | aliphatic hydrocarbons   |
|           | periclase                                    |          | nonanes                  |              | alkynes                  |
| pt .      |  |          | octanes                  |              | acetylene                |
| IXI ∞     | <ul> <li>alkaline earth compounds</li> </ul> |          | paraffins                |              | oxyacetylene             |
| alledia!  | hy   |          |                          | DT           |                          |
| alkalinit |  |          | ceresin                  | RT           |                          |
| DEF       | The state of being alkaline.                 |          | pentanes                 |              | cyclic AMP               |

|            | cyclic hydrocarbons                       |          | uric acid  |    | maraging steels                            |
|------------|---|----------|--|----|--|
| all sky i  | photography                               | alloying |  |    | nickel steels stainless steels             |
| GS         | imagery                                   | RT       | additives  |    | austenitic stainless steels                |
|            | . photography                             | 131      | alloys   |    | ferritic stainless steels                  |
|            | all sky photography                       |          | aluminum-lithium alloys  |    | martensitic stainless steels               |
| RT         | black and white photography               |          | bimetals   |    | . Kovar (trademark)                        |
|            | cloud photographs                         |          | binary alloys  |    | lead alloys                                |
|            | cloud photography<br>wide angle lenses    |          | eutectic alloys  |    | . light alloys                             |
|            | wide aligie lelises                       |          | eutectics  |    | aluminum alloys                            |
| Alleghe    | ny Plateau (US)                           | ~        | intermetallics<br>metallurgy   |    | aluminum-lithium alloys                    |
| GS         | land                                      | ~        | mischmetal   |    | beryllium alloys                           |
|            | . Allegheny Plateau (US)                  |          | powder metallurgy  |    | magnesium alloys<br>. liquid alloys        |
|            | landforms                                 |          | pyrometallurgy   |    | . lithium alloys                           |
|            | . terraces (landforms)                    |          | quaternary alloys  |    | aluminum-lithium alloys                    |
|            | plateaus<br>Allegheny Plateau (US)        |          | solid solutions  |    | . manganese alloys                         |
| RT         | Maryland                                  |          | ternary alloys   |    | Manganin (trademark)                       |
|            | Pennsylvania                              |          |  |    | . mercury alloys                           |
|            | Virginia                                  | alloys   | Substances having metallic properties  |    | mercury amalgams                           |
|            | West Virginia                             | DEF      | Substances having metallic properties<br>ng composed of two or more chemical |    | . monotectic alloys<br>. mulberry (alloy)  |
|            |   |          | s of which at least one is an elemental                                      |    | . nickel alloys                            |
|            | meteorite                                 | metal.   | o or milen at least one to air ciomental                                     |    | Astroloy (trademark)                       |
| GS         | celestial bodies . meteorites             | GS       | alloys   |    | Hastelloy (trademark)                      |
|            | stony meteorites                          |          | . antimony alloys  |    | Inconel (trademark)                        |
|            | carbonaceous meteorites                   |          | babbitt metal  |    | kamacite                                   |
|            | carbonaceous chondrites                   |          | . arsenic alloys   |    | Monel (trademark)                          |
|            | Allende meteorite                         |          | . barium alloys . bearing alloys   |    | Nichrome (trademark) nitinol alloys        |
|            | chondrites                                |          | . binary alloys  |    | Rene 41                                    |
|            | carbonaceous chondrites                   |          | . bismuth alloys   |    | Rene 63                                    |
|            | Allende meteorite                         |          | . boron alloys   |    | Rene 77                                    |
| allorgic   | diseases                                  |          | . cadmium alloys   |    | Rene 95                                    |
| RT         | anaphylaxis                               |          | . cast alloys  |    | Udimet alloys                              |
|            | contact dermatitis                        |          | . cesium alloys<br>. chromium alloys   |    | Waspaloy<br>. palladium alloys             |
|            | immunology                                |          | Astroloy (trademark)   |    | . Permalloys (trademark)                   |
|            |   |          | chromium steels  |    | . platinum alloys                          |
| allocation |   |          | Rene 41  |    | plutonium alloys                           |
| UF<br>GS   | assignment allocations                    |          | Rene 63  |    | . potassium alloys                         |
| 00         | . resource allocation                     |          | Rene 77<br>Rene 95   |    | . quaternary alloys<br>. rare earth alloys |
| RT         | allowances                                |          | . cobalt alloys  |    | erbium alloys                              |
|            | budgeting                                 |          | Astroloy (trademark)   |    | gadolinium alloys                          |
|            | commercial energy                         |          | Rene 41  |    | lanthanum alloys                           |
|            | cost effectiveness                        |          | Rene 63  |    | mischmetal                                 |
| 00         | distributing<br>distribution              |          | Rene 77  |    | neodymium alloys                           |
|            | domestic energy                           |          | Rene 95 . constantan   |    | . rhodium alloys<br>. ruthenium alloys     |
|            | economic analysis                         |          | . copper alloys  |    | . selenium alloys                          |
|            | economic factors                          |          | babbitt metal  |    | . shape memory alloys                      |
|            | engineering management                    |          | brasses  |    | nitinol alloys                             |
|            | estimates<br>federal budgets              |          | bronzes  |    | . silicon alloys                           |
|            | financial management                      |          | Manganin (trademark)   |    | . silver alloys                            |
|            | industrial energy                         |          | . eutectic alloys<br>. gallium alloys  |    | . sodium alloys<br>. solders               |
|            | matrix management                         |          | . germanium alloys   |    | . syntectic alloys                         |
|            | procurement management                    |          | . gold alloys  |    | . tellurium alloys                         |
|            | project planning                          |          | hafnium alloys   |    | ternary alloys                             |
|            | research management revenue               |          | . heat resistant alloys  |    | Astroloy (trademark)                       |
|            | transportation energy                     |          | nimonic alloys   |    | . thallium alloys                          |
|            | ,   |          | refractory metal alloys molybdenum alloys                                    |    | . thorium alloys . tin alloys              |
| allotrop   |   |          | Rene 41  |    | babbitt metal                              |
| RT         | austenite                                 |          | Rene 63  |    | . titanium alloys                          |
|            | crystal structure                         |          | Rene 77  |    | nitinol alloys                             |
|            | polymorphism                              |          | Rene 95  |    | . uranium alloys                           |
| allowan    | ces                                       |          | niobium alloys<br>osmium alloys  |    | . vanadium alloys . wrought alloys         |
| RT         | allocations                               |          | rhenium alloys   |    | . yttrium alloys                           |
|            | clearances                                |          | tantalum alloys  |    | . zinc alloys                              |
| ~          | compensation                              |          | tungsten alloys  |    | . zirconium alloys                         |
|            | precision                                 |          | Udimet alloys  |    | Zircaloys (trademark)                      |
|            | productivity regulations                  |          | Waspaloy   | DT | Zircaloy 2 (trademark)                     |
|            | reliability                               |          | . high strength alloys Astroloy (trademark)                                  | RT | alloying<br>bimetals                       |
|            | sampling                                  |          | high strength steels   |    | binary systems (materials)                 |
|            | tolerances (mechanics)                    |          | maraging steels  |    | dispersion strengthening                   |
|            |   |          | . indium alloys  |    | embedded atom method                       |
| alloxan    |   |          | . iridium alloys   |    | eutectic composites                        |
| GS         | organic compounds                         |          | . iron alloys  |    | eutectics                                  |
|            | . cyclic compounds heterocyclic compounds |          | steels bainitic steel  |    | ferrous metals<br>hardeners                |
|            | pyrimidines                               |          | carbon steels  |    | heat treatment                             |
|            | alloxan                                   |          | low carbon steels  |    | intermetallics                             |
| RT         | thymidine                                 |          | chromium steels  |    | Kondo effect                               |
|            | thymine                                   |          | Croloy   |    | Laves phases                               |
|            | uracil                                    |          | high strength steels   |    | liquid phases                              |

### alphanumeric characters

metallography random access selection rules (nuclear physics) metalloids satellite transmission ∞ metallurgy Alpha jet aircraft metals time division multiple access GS attack aircraft transmission efficiency . fighter aircraft mixtures oxide dispersion strengthening VSAT (network) Alpha jet aircraft jet aircraft phase diagrams powder metallurgy Alpha jet aircraft Alouette 1 satellite precipitates training aircraft S-27 satellite rheocasting . Alpha jet aircraft GS artificial satellites solid solutions RT ∞ aircraft . Alouette satellites ∞ military aircraft stress relieving Alouette 1 satellite ternary systems Canadian spacecraft **Alpha Magnetic Spectrometer** . Alouette satellites alluvium (added June 1998) . Alouette 1 satellite AMS (spectrometer) Soil, the constituents of which have ionospheric sounding been transported in suspension by flowing water GS measuring instruments and subsequently deposited by sedimentation. . spectrometers Alouette 2 satellite . Alpha Magnetic Spectrometer soils GS artificial satellites antimatter . alluvium . Alouette satellites Cerenkov counters RT clavs . Alouette 2 satellite deltas cosmic rays . ISIS satellites fans (landforms) dark matter Alouette 2 satellite International Space Station floods Canadian spacecraft aravels interstellar matter . Alouette satellites hydrology magnetic spectroscopy Alouette 2 satellite space station payloads mud RT ionospheric sounding spaceborne astronomy rivers sands Alouette 3 helicopter alpha particles sedimentary rocks USE SE-3160 helicopter (EMITTED BY NUCLEI)
Positively charged particles emitted SN DEF sediments streams from the nuclei of certain atoms during radioac-Alouette B satellite water flow artificial satellites tive disintegration. Used for alpha radiation. alpha radiation . Alouette satellites all-weather air navigation GS navigation . air navigation . Alouette B satellite ionizing radiation Canadian spacecraft . alpha particles particles . Alouette satellites . all-weather air navigation Alouette B satellite . charged particles Doppler navigation . . energetic particles RT ISIS-X inertial navigation . . . nuclei (nuclear physics) navigation aids .. alpha particles radar navigation Alouette helicopters . corpuscular radiation radio navigation Sud Aviation aircraft . . energetic particles solar compasses . Alouette helicopters ... nuclei (nuclear physics) Tacan SA-330 helicopter .. alpha particles SE-3160 helicopter elementary particles all-weather landing systems V/STOL aircraft . . bosons landing aids . rotary wing aircraft ... alpha particles . instrument landing systems . . helicopters . nuclear particles
. . bosons all-weather landing systems ... Alouette helicopters aircraft landing . . . SA-330 helicopter . . . alpha particles
RT alphatrons aircraft safety ... SE-3160 helicopter flight safety RT ∞ aircraft corpuscular radiation low visibility ∞ systems cosmic rays Alouette project deuteron irradiation GS programs deuterons allyl compounds . projects RT ∞ chemical compounds flux density . . Alouette project diallyl compounds helium . space programs helium ions . . Canadian space program almucantar ions . Alouette project USE elevation angle nuclear radiation cosmic noise nucleons data acquisition Aloha system protons ionospheric sounding DEF A multiple random access communica-tions scheme in which there is a nonfixed alloradioactivity cation of channel capacity, so that the channel is solar wind velocity Alouette satellites available to any terminal whenever it has a tritons GS artificial satellites packet ready for transmission. . Alouette satellites GS networks alpha plasma devices . . Alouette 1 satellite . communication networks plasma accelerators . . Alouette 2 satellite . Aloha system . alpha plasma devices . Alouette B satellite telecommunication RT ∞ devices Canadian spacecraft . multiple access Hall accelerators . Alouette satellites . Aloha system magnetohydrodynamics . . Alouette 1 satellite . packet transmission plasma physics . . Alouette 2 satellite . Aloha system plasmas (physics) Alouette B satellite transmission ISIS satellites . signal transmission alpha radiation . . data transmission USE alpha particles . . . multiple access alpha decay .... Aloha system DEF The radioactive transformation of a nualphabets ... packet transmission clide by alpha-particle emission. abbreviations ... Aloha system decay alphanumeric characters channel capacity . radioactive decay coding channel noise . alpha decay languages code division multiple access nuclear reactions symbols . radioactive decay computer networks

. alpha decay

fine structure

RT

frequency division multiple access

packets (communication)

alphanumeric characters

Characters in a set that contain both

letters and digits, but they usually also contain rhythm (biology) decompression sickness other characters such as punctuation symbols. alternatives altitude simulation alphanumeric characters options UF simulated altitude GS . . digits substitutes simulation . binary digits variations . environment simulation alphabets . altitude simulation instruction sets (computers) alternators (generators) computerized simulation light emitting diodes USE AC generators flight simulation high altitude environments altimeters hypobaric atmospheres DEF Instruments for measuring height alphatrons landing simulation GS measuring instruments above a reference datum. space environment simulation . pressure gages GS measuring instruments thermal simulation . . vacuum gages . distance measuring equipment training devices . . . ionization gages . . altimeters vacuum chambers . . . laser altimeters . . . . alphatrons vacuum apparatus . radio altimeters altitude tests RT aircraft instruments GS altitude tests . vacuum gages . . ionization gages altimetry . high altitude tests altitude engine tests . . alphatrons approach indicators RT alpha particles flight tests astrolabes full scale tests Alpine meteorology barometers high altitude environments DEF Wind, precipitation, atmospheric physflight instruments test vehicles ics, and other climatological phenomena pecuhypsometers liar to the Alps and/or other similar mountainous landing instruments areas navigation aids altitude tolerance GS meteorology navigation instruments GS tolerances (physiology) . Alpine meteorology position indicators altitude tolerance range finders aeronomy high altitude breathing clouds (meteorology) rate of climb indicators high altitude environments nephanalysis satellite altimetry high altitude pressure precipitation (meteorology) hypobaric atmospheres storms (meteorology) altimetry low pressure GS altimetry wind (meteorology) . satellite altimetry ALU (computer components) altimeters USÈ arithmetic and logic units Alps Mountains (Europe) altitude landforms elevation alum . mountains geodesy GS aluminum compounds . Alps Mountains (Europe) aeoids . alum Austria potassium compounds radar measurement Europe . alum topography Italy sulfur compounds Switzerland . sulfates altitude West Germany DEF In astronomy, angular displacement . . alum above the horizon. Also height, especially radial distance as measured above a given datum, as ALS (launch system) alumina USÈ Advanced Launch System (STS) USE aluminum oxides average sea level. GS altitude flight altitude ALSEP aluminates **Apollo Lunar Surface Experiments** USE high altitude GS aluminum compounds . low altitude . midaltitude Package aluminates aluminum oxides Altair engine sea level ∞ oxygen compounds USE X-248 engine RT altimeters spinel altimetry alteration apexes aluminides USE revisions Intermetallic compounds of aluminum azimuth and a transition metal. distance alternating current elevation GS aluminum compounds AC (current) . aluminides elevation angle GS electric current . . iron aluminides height alternating current position (location) . . nickel aluminides electricity . titanium aluminides . alternating current altitude acclimatization aluminum alloys RT current converters (AC to DC) DEF A physiological adaptation to reduced aluminum coatings direct current atmospheric and oxygen pressure. heat resistant alloys induction motors GS adaptation intermetallics inverted converters (DC to AC) . acclimatization nickel alloys voltage converters (AC to AC) . altitude acclimatization protective coatings mountain inhabitants titanium alloys RT alternating current generators USE AC generators altitude control aluminizing alternating direction implicit methods  $RT \, \infty \, control$ USE aluminum coatings laser altimeters ADI methods lateral control aluminum GS problem solving longitudinal control chemical elements alternating direction implicit spacing . aluminum methods differential equations . . aluminum isotopes altitude sickness ... aluminum 26 numerical analysis partial differential equations DEF In general, any sickness brought on by . . aluminum 27 exposure to reduced oxygen tension and barometals alternations . aluminum metric pressure. GS variations sicknesses . . aluminum isotopes GS . . . aluminum 26 . periodic variations . altitude sickness aeroembolism alternations . . aluminum 27 RT RT aerosinusitis aluminum alloys cvcles

aerospace medicine

**Boral** 

intervals

Borsic (tradename) cryolite dawsonite powdered aluminum reaction bonding sintered aluminum powder

### aluminum 26

chemical elements . aluminum . . aluminum isotopes

... aluminum 26

. nuclides

. . isotopes

... aluminum isotopes

. . . . aluminum 26 metals

. aluminum

. . aluminum isotopes

. . . aluminum 26

#### aluminum 27

GS chemical elements

. aluminum

. . aluminum isotopes

... aluminum 27

. nuclides

. . isotopes

. . . aluminum isotopes

. . . aluminum 27 metals

. aluminum

. . aluminum isotopes

. . . aluminum 27

### aluminum alloys

GS allovs

. light alloys

. . aluminum alloys

. . aluminum-lithium alloys

aluminides aluminum bearing alloys friction stir welding gallium alloys indium alloys iron aluminides

lamella (metallurgy) lithium alloys mischmetal silicon alloys vanadium alloys

### aluminum antimonides

aluminum compounds

aluminum antimonides

antimony compounds

. antimonides

. . aluminum antimonides

### aluminum arsenides

DEF Binary compounds of aluminum with negative, trivalent arsenic.

aluminum compounds

aluminum arsenides

aluminum gallium arsenides

. . indium aluminum arsenides

arsenic compounds

. arsenides

. . aluminum arsenides

. . . aluminum gallium arsenides

. . indium aluminum arsenides

semiconductors (materials)

### aluminum borohydrides

aluminum compounds

. aluminum hydrides

aluminum borohydrides

boron compounds

borohydrides

aluminum borohydrides

boron hydrides

. aluminum borohydrides hydrogen compounds

. hydrides

. . borohydrides

. aluminum borohydrides

. . boron hydrides

... aluminum borohydrides

. . metal hydrides

. . . aluminum hydrides

.... aluminum borohydrides

### aluminum boron composites

Structural materials composed of aluminum alloys reinforced with boron fibers (fila-

composite materials

. boron reinforced materials

. aluminum boron composites

. metal matrix composites

aluminum boron composites

boron fibers fiber composites

#### aluminum carbides

aluminum compounds

aluminum carbides

carbon compounds

. carbides . . aluminum carbides

#### aluminum chlorides

aluminum compounds

aluminum chlorides

halogen compounds . chlorine compounds

. . chlorides

. aluminum chlorides

. halides . . chlorides

. . . aluminum chlorides

.. metal halides

... aluminum chlorides

### aluminum coatings

aluminizing

GS coatings

metal coatings

aluminum coatings

RT aluminides

### aluminum compounds

#### aluminum compounds

alum

. aluminates

. aluminides . . iron aluminides

. . nickel aluminides

. . titanium aluminides

. aluminum antimonides

. aluminum arsenides

. . aluminum gallium arsenides

indium aluminum arsenides

. aluminum carbides

. aluminum chlorides

. aluminum fluorides . aluminum hydrides

. aluminum borohydrides

aluminum nitrides

. aluminum oxides . . alexandrite

. . sapphire

aluminum perchlorates

. aluminum silicates

. . andesite

. . feldspars

gehlenite

kaolinite

. . montmorillonite

. . pyrophyllite

. plagioclase beryl

. alexandrite

. cordierite

cryolite . lithium aluminum hydrides

muscovite . nepheline

nephelite

. organic aluminum compounds spodumene

tourmaline RT ∞ chemical compounds

∞ Group 3A compounds ∞ metal compounds

metal fuels

metal propellants

### aluminum fluorides

GS aluminum compounds

aluminum fluorides

halogen compounds

. fluorine compounds

. . fluorides

. . . metal fluorides

. aluminum fluorides

. halides

. . fluorides

. . . metal fluorides

.... aluminum fluorides

. . metal halides

. . . metal fluorides

. . . . aluminum fluorides

### aluminum gallium arsenide lasers

(added November 1991)

GS electronic equipment

. solid state devices

. . semiconductor devices

. . . semiconductor lasers

.... aluminum gallium arsenide lasers

. . solid state lasers

. . . aluminum gallium arsenide lasers

stimulated emission devices

. lasers

. . semiconductor lasers

... aluminum gallium arsenide lasers

. . solid state lasers

... aluminum gallium arsenide lasers gallium arsenide lasers

## aluminum gallium arsenides

injection lasers

waveguide lasers

Compounds exhibiting characteristics suitable for use in laser devices, light-emitting diodes, solar cells, etc. Used for AlGaAs.

UF

**AIGaAs** GS

aluminum compounds . aluminum arsenides

. aluminum gallium arsenides arsenic compounds

. arsenides . . aluminum arsenides

... aluminum gallium arsenides . . gallium arsenides

. aluminum gallium arsenides

gallium compounds gallium arsenides

aluminum gallium arsenides **MODFETS** 

negative resistance devices

aluminum graphite composites Structural materials composed of alu-

minum alloys reinforced with graphite. composite materials

. metal matrix composites

aluminum graphite composites fiber composites

### graphite

aluminum hydrides aluminum compounds

aluminum hydrides . . aluminum borohydrides

hydrogen compounds

. hydrides . . metal hydrides

... aluminum hydrides . . . . aluminum borohydrides

aluminum isotopes

GS chemical elements . aluminum

. . aluminum isotopes . . . aluminum 26

. . . aluminum 27 . nuclides

. . isotopes

. . . aluminum isotopes

. . . . aluminum 26

|         | aluminum 27   | sace) d  | eep within the lungs.                            |        | plasma diffusion                        |
|---------|---|----------|--|--------|---|
|         | metals  | GS       | gases  |        | piasina diliusion                       |
|         | . aluminum  | 00       | . gas mixtures                                   | ambit  |   |
|         | aluminum isotopes   |          | air  | USE    | field theory (physics)                  |
|         | aluminum 26   |          | alveolar air                                     | 002    | noid thooly (physico)                   |
|         | aluminum 27   |          | mixtures   | ambula | inces                                   |
|         |   |          | . solutions                                      | RT     | medical services                        |
| aluminu | um nitrides   |          | gas mixtures                                     | c      |   |
| GS      | aluminum compounds  |          | air  |        | safety devices                          |
|         | . aluminum nitrides                                       |          | alveolar air                                     |        | •                                       |
|         | nitrogen compounds  | RT       | exhalation                                       | Americ | an Indians                              |
|         | . nitrides  |          | expired air                                      | RT     | anthropology                            |
|         | metal nitrides  |          | lungs  |        | culture (social sciences)               |
|         | aluminum nitrides   |          |  |        | ethnic factors                          |
|         |   | alveoli  |  |        | minorities                              |
|         | um oxides   | DEF      | The terminal air sacs deep within the            |        | races (anthropology)                    |
| UF      | alumina   | lungs.   |  |        |   |
| 00      | corundum  | GS       | anatomy  | americ | ium                                     |
| GS      | aluminum compounds  |          | . respiratory system                             | GS     | chemical elements                       |
|         | . aluminum oxides   |          | lungs  |        | . actinide series                       |
|         | alexandrite   |          | alveoli  |        | transuranium elements                   |
|         | sapphire  | RT       | lung morphology                                  |        | americium                               |
|         | chalcogenides<br>. oxides                                 |          | pulmonary circulation                            |        | americium isotopes                      |
|         | . metal oxides  |          | pulmonary functions                              |        | americium 241                           |
|         | aluminum oxides   |          | respiration                                      |        | . nuclides                              |
|         | alexandrite   |          |  |        | isotopes                                |
|         | sapphire  |          | odulation)                                       |        | radioactive isotopes                    |
| RT      | abrasives   | USE      | amplitude modulation                             |        | transuranium elements                   |
| 111     | aluminates  |          |  |        | americium                               |
|         | bauxite   | AM-1 (E  | EOS) spacecraft                                  |        | americium isotopes                      |
|         | energy absorption films                                   | (add     | ed June 1999)                                    |        | americium 241                           |
|         | gehlenite   |          | Terra spacecraft                                 |        | metals                                  |
|         | kaolinite   |          | •  |        | actinide series                         |
|         | nanocomposites  | amalga   | ms   |        | transuranium elements                   |
|         | plagioclase   | USE      |  |        | americium                               |
|         | pyrophyllite  | 002      | moroary amargamo                                 |        | americium isotopes                      |
|         | ruby  | Amalth   |  |        | americium 241                           |
|         | thermites   | DEF      |  |        |   |
|         |   | GS       | Innermost satellite of Jupiter. celestial bodies |        | ium 241                                 |
| aluminu | ım perchlorates   | GS       | . natural satellites                             | GS     | chemical elements                       |
| GS      | aluminum compounds  |          | Jupiter satellites                               |        | actinide series                         |
|         | . aluminum perchlorates                                   |          | Amalthea   |        | transuranium elements                   |
|         | halogen compounds   | RT       | Jupiter (planet)                                 |        | americium                               |
|         | . chlorine compounds                                      | IXI      | solar system                                     |        | americium isotopes                      |
|         | perchlorates  |          | Solal System                                     |        | americium 241                           |
|         | aluminum perchlorates                                     |          |  |        | . nuclides                              |
|         | •   |          | n region (South America)                         |        | isotopes                                |
| aluminu | ım silicates  | GS       | regions  |        | radioactive isotopes                    |
| GS      | aluminum compounds  |          | . tropical regions                               |        | transuranium elements                   |
|         | . aluminum silicates                                      | БТ       | Amazon region (South America)                    |        | americium                               |
|         | andesite  | RT       | Brazil   |        | americium isotopes                      |
|         | feldspars   |          | forests  |        | americium 241                           |
|         | gehlenite   |          | river basins                                     |        | metals                                  |
|         | kaolinite   |          | rivers   |        | . actinide series                       |
|         | montmorillonite   |          |  |        | transuranium elements                   |
|         | pyrophyllite  |          | ite (trademark)                                  |        | americium                               |
|         | plagioclase   | RT       | asbestos   |        | americium isotopes americium 241        |
|         | silicon compounds   |          | thermal insulation                               |        | amencium 241                            |
|         | . silicates   |          |  |        | ······                                  |
|         | aluminum silicates  | ambien   | ce   |        | ium isotopes                            |
|         | andesite  | RT       | acoustic measurement                             | GS     | chemical elements                       |
|         | feldspars   |          | environmental monitoring                         |        | . actinide series transuranium elements |
|         | gehlenite   |          | environments                                     |        |   |
|         | kaolinite   |          | noise (sound)                                    |        | americium                               |
|         | montmorillonite   |          | pollution monitoring                             |        | americium isotopes americium 241        |
|         | pyrophyllite  |          |  |        | . nuclides                              |
|         | plagioclase   | ambien   | t temperature                                    |        | isotopes                                |
| RT      | minerals  | DEF      | Temperature of surrounding medium.               |        | radioactive isotopes                    |
|         | mullites  | Used for | r environmental temperature.                     |        | transuranium elements                   |
|         | P41.2   | UF       | environmental temperature                        |        | americium                               |
|         | um-lithium alloys   | GS       | temperature                                      |        | americium isotope                       |
| DEF     | ed August 1991) Light alloys consisting primarily of alu- |          | . ambient temperature                            |        | americium 241                           |
|         | and lithium.  | RT       | atmospheric temperature                          |        | metals                                  |
| GS      | alloys  |          | operating temperature                            |        | . actinide series                       |
| 00      | . light alloys  |          | room temperature                                 |        | transuranium elements                   |
|         | aluminum alloys   |          | satellite temperature                            |        | americium                               |
|         | aluminum-lithium alloys                                   |          |  |        | americium isotopes                      |
|         | . lithium alloys  | ambigu   | ity  |        | americium 241                           |
|         | aluminum-lithium alloys                                   | RT       | intelligibility                                  |        |   |
| RT      | aircraft construction materials                           |          | positioning                                      | amidas | se .                                    |
|         | airframe materials  |          |  | GS     | biopolymers                             |
|         | alloying  | ambipo   | lar diffusion                                    |        | . proteins                              |
|         | copper alloys   | GS       | diffusion  |        | enzymes                                 |
|         | high strength alloys                                      |          | . ambipolar diffusion                            |        | amidase                                 |
|         | magnesium alloys  | RT       | electron diffusion                               |        | organic compounds                       |
|         | ÷ , -   |          | electron mobility                                |        | . proteins                              |
| alveola | r air   |          | ionic diffusion                                  |        | enzymes                                 |
| DEF     | The respiratory air in the alveoli (air                   |          | ionic mobility                                   |        | amidase                                 |
|         |   |          |  |        |   |

| RT      | amino acids                           |               | histidine                            | 0     | ∞ metal compounds                            |
|---------|---------------------------------------|---------------|--------------------------------------|-------|--|
|         |                                       |               | leucine                              |       |  |
| amides  | -th                                   |               | norleucine                           | ammon |  |
| GS      | nitrogen compounds . amides           |               | lysine                               | GS    | gases  |
|         | . acetanilide                         |               | melanoidin methionine                |       | . ammonia<br>liquid ammonia                  |
|         | acetazolamide                         |               | thyroxine                            |       | inorganic compounds                          |
|         | carbamides                            |               | tryptophan                           |       | . ammonia                                    |
|         | cyanamides                            |               | tyrosine                             |       | liquid ammonia                               |
|         | formhydroxamic acid                   |               | organic compounds                    |       | nitrogen compounds                           |
|         | . nicotinamide . oxamic acids         |               | . amino acids alanine                |       | . ammonia<br>liquid ammonia                  |
|         | polyimides                            |               | phenylalanine                        | RT    | absorption cooling                           |
|         | bismaleimide                          |               | . aspartic acid                      |       | amino radical                                |
|         | Kapton (trademark)                    |               | cysteine                             |       | ammines                                      |
|         | succinimides                          |               | dopa                                 |       | ammonium compounds                           |
|         | difluorourea                          |               | folic acid<br>glutamic acid          |       | ammonolysis atmospheric energy sources       |
|         | thioureas                             |               | glutamine                            |       | cultivation                                  |
|         | thiuronium                            |               | . glycine                            |       | fertilizers                                  |
| RT      | imides                                |               | hippuric acid                        |       | Kjeldahl method                              |
|         | phthalimides                          |               | histidine                            |       | nitrogen hydrides                            |
| amines  |                                       |               | leucine norleucine                   |       | refrigerants                                 |
| GS      | organic compounds                     |               | lysine                               | ammon | nium bromides                                |
|         | . amines                              |               | melanoidin                           | GS    | ammonium compounds                           |
|         | aminophylline                         |               | methionine                           |       | ammonium bromides                            |
|         | amphetamines methamphetamine          |               | thyroxine                            |       | halogen compounds . bromine compounds        |
|         | aniline                               |               | tryptophan<br>tyrosine               |       | bromides                                     |
|         | catecholamine                         | RT            | adenosine triphosphate               |       | ammonium bromides                            |
|         | epinephrine                           |               | adrenocorticotropin (ACTH)           |       | . halides                                    |
|         | norepinephrine                        |               | amidase                              |       | bromides                                     |
|         | cysteamine<br>diamines                |               | aspartates                           |       | ammonium bromides                            |
|         | ethylenediamine                       |               | cyclic AMP cysteamine                | ammon | nium chlorides                               |
|         | guanidines                            |               | lipids                               | GS    | ammonium compounds                           |
|         | guanethidine                          |               | peptides                             |       | . ammonium chlorides                         |
|         | triaminoguanidinium azide             |               | polypeptides                         |       | halogen compounds                            |
|         | . difluorourea . dimenhydrinate       |               | protoproteins                        |       | . chlorine compounds chlorides               |
|         | dimethylhydrazines                    |               | synthetic food uridylic acid         |       | ammonium chlorides                           |
|         | diphenyl hydantoin                    |               | zwitterions                          |       | . halides                                    |
|         | ergotamine                            |               |                                      |       | chlorides                                    |
|         | fluoroamines                          | amino r       | adical                               |       | ammonium chlorides                           |
|         | nitrofluoramines trifluoroamine oxide |               | hydrogen compounds                   | ammon | nium compounds                               |
|         | gallamine triethiodide                |               | . hydrides                           | GS    | ammonium compounds                           |
|         | hexamethylenetetramine                |               | nitrogen hydrides                    |       | . ammonium bromides                          |
|         | histidine                             |               | amino radical nitrogen compounds     |       | . ammonium chlorides                         |
|         | hydroxylamine sulfate hyoscine        |               | . nitrogen hydrides                  |       | . ammonium nitrates . ammonium perchlorates  |
|         | mecamylamine                          |               | amino radical                        |       | . ammonium phosphates                        |
|         | melamine                              |               | radicals                             |       | . ammonium picrates                          |
|         | methylene diamine                     | RT            | . amino radical<br>ammonia           |       | . ammonium sulfates                          |
|         | monoethanolamine (MEA)                | IXI           | anions                               | DT    | . hydroxylammonium perchlorates              |
|         | . nitroamines . nitrosamine           |               | free radicals                        | RT    | ammonia<br>∞ chemical compounds              |
|         | promethazine                          |               | molecular ions                       | · ·   | hexamethonium                                |
|         | tetrafluorohydrazine                  |               | reaction kinetics                    |       |  |
|         | tetryl                                |               |                                      |       | nium nitrates                                |
|         | thiuronium trinitramine               | aminopl<br>GS | hylline<br>diuretics                 | GS    | ammonium compounds . ammonium nitrates       |
|         | tryptamines                           | 63            | . aminophylline                      |       | nitrogen compounds                           |
|         | melatonin                             |               | drugs                                |       | . nitrates                                   |
|         | serotonin                             |               | aminophylline                        |       | inorganic nitrates                           |
| DT      | acetylcholine                         |               | organic compounds                    | RT    | ammonium nitrates cultivation                |
| KI «    | aliphatic compounds<br>histamines     |               | . amines aminophylline               | KI    | fertilizers                                  |
|         | hydrazines                            | RT            | stimulants                           |       | TOTALIZETS                                   |
|         | hydrocarbon fuels                     |               |                                      |       | nium perchlorates                            |
|         | imines                                | ammete        | rs                                   | GS    | ammonium compounds                           |
|         | Lewis base                            | DEF           | An instrument for measuring the mag- |       | . ammonium perchlorates<br>halogen compounds |
|         | nitrosyls<br>phenolic epoxy resins    |               | f an electric current.               |       | . chlorine compounds                         |
|         | rhodamine                             | GS            | measuring instruments                |       | perchlorates                                 |
|         |                                       |               | . micromilliammeters                 |       | ammonium perchlorates                        |
| amino a |                                       |               | thermoelement ammeters               | RT    | solid rocket propellants                     |
| GS      | acids . amino acids                   | RT            | coulometers                          | ammon | nium phosphates                              |
|         | alanine                               |               | electric current                     | GS    | ammonium compounds                           |
|         | phenylalanine                         |               | electrical measurement               |       | . ammonium phosphates                        |
|         | aspartic acid                         |               | galvanometers<br>voltmeters          |       | phosphorus compounds                         |
|         | cysteine                              |               | voluncters                           |       | . phosphates                                 |
|         | dopa                                  | ammir-        | e                                    |       | ammonium phosphates                          |
|         | folic acid<br>glutamic acid           | ammine<br>RT  | ammonia                              | ammon | nium picrates                                |
|         | glutamine                             |               | chemical compounds                   | GS    | ammonium compounds                           |
|         | glycine                               |               | copper                               |       | ammonium picrates                            |
|         | hippuric acid                         |               | intermetallics                       |       | nitrogen compounds                           |

|   | . nitro compounds  | graphoepitaxy  |           | Galileo project  |
|---|--|--|-----------|--|
|   | picrates   | grout  |           | Cameo project  |
|   | ammonium picrates  | ∞ materials  | amplidy   | nes  |
| RT  | explosives   | spin glass   | GS        | electric generators  |
| 111   | CAPIOSIVOS   | Spiri gidos  | 00        | . rotating generators  |
| ammoni  | um sulfates  |  |           | amplidynes   |
|   | ammonium compounds   | amorphous semiconductors   | RT        | amplifiers   |
| 00  | . ammonium sulfates  | GS semiconductors (materials)  |           | electric motors  |
|   | sulfur compounds   | . amorphous semiconductors   |           | power amplifiers   |
|   | . sulfates   | amorphous silicon  |           | servomotors  |
|   | ammonium sulfates  | RT semiconducting films  |           | oor vornotoro  |
|   | animonium sunates  |  | amplific  | ation  |
| ammon   | olvsis   | amorphous silicon  | UF        | amplification factor   |
|   | chemical reactions   | GS amorphous materials   | 0.        | gain (amplification)   |
| 00  | . ammonolysis  | amorphous silicon  |           | intensification  |
|   | decomposition  | chemical elements  | GS        | amplification  |
|   | . ammonolysis  | . metalloids   | 00        | . antenna gain   |
| RT  | ammonia  | silicon  |           | . high gain  |
| KI  |  | amorphous silicon  |           | . power gain   |
|   | cracking (chemical engineering)  | semiconductors (materials)   |           | sound amplification  |
|   | hydrolysis   | . amorphous semiconductors   |           |  |
|   | 4:am   | amorphous silicon  | DT        | . wave amplification   |
| ammuni  |  | RT diamond films   | RT        | amplifiers   |
| GS  | ammunition   | photovoltaic cells   |           | amplitudes   |
| БТ  | . incendiary ammunition  | semiconducting films   |           | dynamic characteristics  |
| RT  | blanks   | silicon films  |           | dynamic range  |
|   | bombs (ordnance)   | silicon junctions  |           | dynamic response   |
|   | case bonded propellants  | solar cells  |           | fluid amplifiers   |
|   | explosive devices  | thin films   |           | fluidics   |
|   | explosives   |  |           | magnification  |
|   | fuses (ordnance)   | ama.int  |           | positive feedback  |
|   | grenades   | amount   |           | sensitivity  |
|   | guns (ordnance)  | UF quantity  |           | stability  |
|   | igniters   | RT addition  |           | transfer functions   |
|   | magazines (supply chambers)  | sums   |           | transient response   |
|   | mines (ordnance)   | value  |           | tianoloni roopenee   |
|   | missiles   |  | amplifica | ation factor   |
|   | ordnance   | AMP (biochemistry)   |           | amplification  |
|   |  | (added December 2004)  | USL       | amplification  |
|   | projectiles  | USE adenosine monophosphate  | amplific  | er design  |
|   | propellants  |  | RT        |  |
|   | pyrotechnics   | amporago   | KI        | amplifiers   |
| 000   | rockets  | amperage   |           | computer aided design  |
|   | shaped charges   | USE electric current   | ~         | design   |
| ∞   | shot   |  |           | logic design   |
|   | torpedoes  | amphetamines   |           | operational amplifiers   |
| 00  | tracers  | GS organic compounds   |           | product development  |
|   | warheads   | . amines   |           | traveling wave amplifiers  |
|   | weapons  | amphetamines   |           |  |
|   |  | methamphetamine  | amplifie  | ers  |
| amobarl   | oital  | RT central nervous system stimulants   | DEF       | Devices which enable an input signal   |
| GS  | acids  | ,  | to contro | ol a source of power whose output is an  |
|   | . amobarbital  | amphibia   |           | reproduction of the essential charac-  |
| RT  | central nervous system depressants   | GS animals   |           | of the signal. Used for electronic ampli-  |
| 111   | central hervous system depressants   |  | fiers.    | g  |
| amoeba  |  | . vertebrates  | UF        | electronic amplifiers  |
|   | animals  | amphibia   | GS        | amplifiers   |
| 00  |  | frogs  | 00        | . beam plasma amplifiers   |
|   | . protozoa   | RT poikilothermia  |           |  |
|   | amoeba   |  |           | . broadband amplifiers   |
|   | pelomyxa   | amphibious aircraft  |           | . carcinotrons   |
|   | microorganisms   | GS amphibious vehicles   |           | . current amplifiers   |
|   | . protozoa   | amphibious aircraft  |           | photomultiplier tubes  |
|   | amoeba   | RT ∞ aircraft  |           | frequency modulation   |
|   | nolomiyyo  |  |           |  |
| RT  | pelomyxa   | seaplanes  |           | photomultipliers   |
|   | parasitic diseases   | seaplanes water takeoff and landing aircraft   |           | differential amplifiers  |
|   | parasitic diseases   | seaplanes water takeoff and landing aircraft   |           | . differential amplifiers . distributed amplifiers   |
| AMOOS   | parasitic diseases   | water takeoff and landing aircraft   |           | . differential amplifiers<br>. distributed amplifiers<br>. feedback amplifiers   |
| AMOOS   | parasitic diseases   | water takeoff and landing aircraft amphibious vehicles   |           | <ul> <li>differential amplifiers</li> <li>distributed amplifiers</li> <li>feedback amplifiers</li> <li>fluid amplifiers</li> </ul>   |
| AMOOS   | parasitic diseases   | water takeoff and landing aircraft  amphibious vehicles  GS amphibious vehicles  |           | . differential amplifiers<br>. distributed amplifiers<br>. feedback amplifiers   |
| AMOOS   | parasitic diseases  Aeromaneuvering Orbit to Orbit   | water takeoff and landing aircraft  amphibious vehicles  GS amphibious vehicles . amphibious aircraft  |           | <ul> <li>differential amplifiers</li> <li>distributed amplifiers</li> <li>feedback amplifiers</li> <li>fluid amplifiers</li> </ul>   |
| AMOOS   | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers   |
| <i>AM</i> OOS<br>USE  | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers  |
| AMOOS<br>USE<br>Amor as<br>DEF                                  | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid One group of Earth-approaching aster-  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers   |
| AMOOS USE  Amor as DEF oids with                                | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorists between the planets Mars and   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers   |
| AMOOS USE  Amor as DEF oids with Jupiter.                       | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid One group of Earth-approaching asteraorbits between the planets Mars and Used for Minor Planet 1221.   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers linear amplifiers magnetic amplifiers  |
| AMOOS USE  Amor as DEF oids with Jupiter.                       | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers linear amplifiers magnetic amplifiers magnetostatic amplifiers  |
| AMOOS USE  Amor as DEF oids with Jupiter.                       | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid  One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers linear amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers   |
| AMOOS USE  Amor as DEF oids with Jupiter.                       | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies . asteroids  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers linear amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers crossed field amplifiers  |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorbits between the planets Mars and Jsed for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids . Amor asteroid   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers fluid amplifiers jluid amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers limiter amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers crossed field amplifiers cyclotron resonance devices  |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratoris between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids . Amor asteroid asteroid belts  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles amphiboles   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jluid amplifiers jluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers limiter amplifiers magnetic amplifiers magnetic amplifiers microwave amplifiers crossed field amplifiers cyclotron resonance devices planotrons   |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221 celestial bodies . asteroids . Amor asteroid asteroid belts astronomy   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles DEF A group of dark, rock-forming, ferro-   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jluid amplifiers jet amplifiers intermediate frequency amplifiers light amplifiers limiter amplifiers limear amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers crossed field amplifiers cyclotron resonance devices planotrons cascode devices  |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221 celestial bodies asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet)  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers i jet amplifiers intermediate frequency amplifiers limiter amplifiers limiter amplifiers linear amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers crossed field amplifiers cyclotron resonance devices planotrons cascode devices operational amplifiers  |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorbits between the planets Mars and Jsed for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet)   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition.   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers jet amplifiers light amplifiers light amplifiers limiter amplifiers limiter amplifiers liniear amplifiers magnetic amplifiers magnetic amplifiers moreowave amplifiers crossed field amplifiers planotrons cascode devices operational amplifiers parametric amplifiers   |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  steroid One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221 celestial bodies asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet)  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft PT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers i jet amplifiers intermediate frequency amplifiers limiter amplifiers limiter amplifiers linear amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers crossed field amplifiers cyclotron resonance devices planotrons cascode devices operational amplifiers  |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorbits between the planets Mars and Jsed for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet)   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jet amplifiers jet amplifiers light amplifiers light amplifiers limiter amplifiers limiter amplifiers liniear amplifiers magnetic amplifiers magnetic amplifiers moreowave amplifiers crossed field amplifiers planotrons cascode devices operational amplifiers parametric amplifiers   |
| AMOOS USE  Amor as DEF oids with Jupiter. UF GS                 | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorists between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids  . Amor asteroid asteroid asteroid belts astronomy Unpiter (planet)  Mars (planet) planetary orbits   | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft PT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals   |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers Jiet amplifiers Jiet amplifiers Jiet amplifiers Jiet amplifiers Jimiter amplifier |
| AMOOS<br>USE<br>Amor as<br>DEF<br>oids with<br>Jupiter. U<br>GS | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid One group of Earth-approaching asterorbits between the planets Mars and Used for Minor Planet 1221 Celestial bodies . asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jluid amplifiers jet amplifiers intermediate frequency amplifiers limiter amplifiers limiter amplifiers limear amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers crossed field amplifiers cyclotron resonance devices planotrons cascode devices operational amplifiers parametric amplifiers postamplifiers postamplifiers power amplifiers preamplifiers preamplifiers  |
| AMOOS<br>USE  Amor as DEF oids with Jupiter. I UF GS RT         | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies . asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  bus materials  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles RT calcium silicates  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers . jet amplifiers . jet amplifiers . light amplifiers limiter amplifiers limiter amplifiers limiter amplifiers magnetic amplifiers magnetostatic amplifiers microwave amplifiers . crossed field amplifiers . cyclotron resonance devices . planotrons cascode devices operational amplifiers parametric amplifiers postamplifiers power amplifiers power amplifiers preamplifiers preamplifiers preamplifiers push-pull amplifiers   |
| AMOOS<br>USE  Amor as DEF oids with Jupiter. I UF GS RT         | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  Dus materials amorphous materials  | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles  RT calcium silicates silicates  |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers Jitid a |
| AMOOS USE  Amor as DEF oids with Jupiter: I UF GS RT            | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid  One group of Earth-approaching asteratorists between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies asteroids  Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  Dus materials amorphous materials amorphous silicon                             | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles RT calcium silicates silicates  Amphitrite asteroid                                |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers jluid amplifiers jluid amplifiers jluid amplifiers jet amplifiers intermediate frequency amplifiers limiter amplifiers limiter amplifiers magnetic amplifiers magnetic amplifiers microwave amplifiers cyclotron resonance devices planotrons cascode devices operational amplifiers parametric amplifiers postamplifiers postamplifiers postamplifiers preamplifiers preamplifiers push-pull amplifiers quantum amplifiers quantum amplifiers quantum amplifiers  |
| AMOOS USE  Amor as DEF oids with Jupiter: I UF GS RT            | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid One group of Earth-approaching asterary orbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies . asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  Dus materials amorphous materials . amorphous silicon asphalt               | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles RT calcium silicates silicates  Amphitrite asteroid GS celestial bodies            |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers Jidid amplifiers Jidid amplifiers Jiet amplifiers Jight amplifiers Jimiter amplif |
| AMOOS USE  Amor as DEF oids with Jupiter: I UF GS RT            | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid One group of Earth-approaching asteratorbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies . asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  Dus materials amorphous materials . amorphous silicon asphalt carbon nitrides | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles RT calcium silicates silicates  Amphitrite asteroid GS celestial bodies . asteroids |           | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers . jet amplifiers . jet amplifiers . intermediate frequency amplifiers liight amplifiers limiter amplifiers limiter amplifiers . linear amplifiers magnetic amplifiers magnetostatic amplifiers . microwave amplifiers . crossed field amplifiers . cyclotron resonance devices . planotrons cascode devices operational amplifiers parametric amplifiers postamplifiers power amplifiers preamplifiers preamplifiers push-pull amplifiers quantum amplifiers servoamplifiers transistor amplifiers transistor amplifiers traveling wave amplifiers   |
| AMOOS USE  Amor as DEF oids with Jupiter: I UF GS RT            | parasitic diseases  Aeromaneuvering Orbit to Orbit Shuttle  Steroid One group of Earth-approaching asterary orbits between the planets Mars and Used for Minor Planet 1221.  Minor Planet 1221 celestial bodies . asteroids . Amor asteroid asteroid belts astronomy Jupiter (planet) Mars (planet) planetary orbits solar system  Dus materials amorphous materials . amorphous silicon asphalt               | water takeoff and landing aircraft  amphibious vehicles GS amphibious vehicles . amphibious aircraft RT boats ∞ military vehicles seaplanes ships surface vehicles ∞ vehicles water vehicles  amphiboles  DEF A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition. GS minerals . amphiboles RT calcium silicates silicates  Amphitrite asteroid GS celestial bodies            | RT        | differential amplifiers distributed amplifiers feedback amplifiers fluid amplifiers Jidid amplifiers Jidid amplifiers Jiet amplifiers Jight amplifiers Jimiter amplif |

| amplification  | vibration  | . algae  |
|--|--|--|
| amplifier design   |  | blue green algae   |
| ∞ boosters   | ampoules   | anabaena   |
| capacitors   | DEF Glass containers designed to be filled   | . thermophilic plants  |
| circuits   | and sealed by fusion of the glass neck.  | blue green algae   |
| dynamic range  | RT ∞ containers  | anabaena   |
| ∞ electric cells   | laboratory equipment   |  |
| electric choppers  | vacuum systems   | anaerobes  |
| • •  | radaam dyddinid  | RT aerobes   |
| image intensifiers   | AMPS (satellite payload)   | bacteria   |
| intensifiers   | UF Atmospheric and Magnetospheric  |  |
| klystrons  | Payload  | microorganisms   |
| laser cavities   |  | sewage treatment   |
| lasers   | plasmas-in-space payload   |  |
| linear circuits  | GS measuring instruments   | analgesia  |
| masers   | . satellite-borne instruments  | RT anesthesia  |
| modulators   | AMPS (satellite payload)   | drugs  |
| multivibrators   | payloads   | pain   |
| oscillators  | . Spacelab payloads  | '  |
| receivers  | AMPS (satellite payload)   | analog circuits  |
| repeaters  | RT instrument packages   | GS circuits  |
|  | The second partial grade and a second grade and | . analog circuits  |
| solid state devices  | AMPTE (satellites)   | RT data converters   |
| stimulated emission devices  | SN (ACTIVE MAGNETOSPHERIC PARTICLE   |  |
| transformers   | TRACER EXPLORERS)  | operational amplifiers   |
| traveling wave masers  | UF Active Magneto Particle Tracer  | rheoelectrical simulation  |
|  | Explorers  |  |
| amplitrons (trademark)   | GS artificial satellites   | analog computers   |
|  | . scientific satellites  | DEF Computers that work on the principle   |
| USE planotrons   |  | of measuring, as distinguished from counting, in   |
|  | AMPTE (satellites)   | which the input data is analogous to a measure   |
| amplitude distribution analysis  | RT Earth magnetosphere   | ment continuum such as linear lengths, vol   |
| UF amplitude probability analysis  | European space programs  | ages, or resistances which can be manipulated  |
| GS statistical analysis  | satellite-borne instruments  | by the computer.   |
| · · · · · · · · · · · · · · · · · ·  | solar wind   |  |
| . amplitude distribution analysis  | space plasmas  | GS data processing equipment   |
| RT photopeak   | spaceborne experiments   | . computers  |
| pulse amplitude  | ораосвотто охронитотто   | analog computers   |
| signal to noise ratios   | AMS (spectrometer)   | EAI 680 computer   |
| signatures   | (added June 1998)  | Honeywell 600/6000 computer  |
|  |  | SIGMA 5 computer   |
| amplitude modulation   | USE Alpha Magnetic Spectrometer  | Univac 1100 series computers   |
| •  | AA4011 (==-1;====+==)  | Univac 1105 computer   |
| DEF In general, modulation in which the  | AMSU (radiometer)  | Univac 1106 computer   |
| amplitude of a wave is the characteristic subject  | (added July 1997)  |  |
| to variation.  | USE Advanced Microwave Sounding  | Univac 1107 computer   |
| UF AM (modulation)   | Unit   | Univac 1108 computer   |
| GS coding  |  | Univac 1110 computer   |
| . signal encoding  | AMTV   | RT differential amplifiers   |
| amplitude modulation   | USE automated mixed traffic vehicles   | differential analyzers   |
| quadrature amplitude modulation  |  | digital computers  |
| modulation   | AN-2 aircraft  | discriminators   |
| . amplitude modulation   | GS Antonov aircraft  | functional integration   |
| •  | . AN-2 aircraft  | hybrid computers   |
| quadrature amplitude modulation  |  | missile control  |
| RT Bragg cells   | biplanes   |  |
| demodulation   | . AN-2 aircraft  | operational amplifiers   |
| demodulators   | transport aircraft   | resolvers  |
| frequency modulation   | . AN-2 aircraft  | signal analyzers   |
| light modulation   | RT agricultural aircraft   | spectral resolution  |
| modulators   | ∞ aircraft   | ·  |
| P.A.C.M. telemetry   | anoran   | analog data  |
|  | AN-22 aircraft   | RT binary data   |
| phase modulation   | UF Antheus aircraft  | ∞ data   |
| pulse modulation   | Antonov AN-22 aircraft   | data converters  |
| single sideband transmission   |  |  |
|  | Cock aircraft  | data processing  |
| amplitude probability analysis   | GS Antonov aircraft  | digital data   |
| USE amplitude distribution analysis  | . AN-22 aircraft   | ∞ measurement  |
| OOL amplitude distribution analysis  | jet aircraft   | video compression  |
|  | . turboprop aircraft   | video data   |
| amplitudes   | AN-22 aircraft   |  |
| DEF The maximum value of the displace-   | monoplanes   | analog simulation  |
| ment of a wave or other periodic phenomenon  | . AN-22 aircraft   | GS models  |
| from a reference position. Also, angular distance  | transport aircraft   | . mathematical models  |
|  |  |  |
| north or south of the prime vertical; the arc of the   | . AN-22 aircraft   | analog simulation  |
| horizon, or the angle at the zenith between the  | RT ∞ aircraft  | simulation   |
| prime vertical and a vertical circle, measured   | passenger aircraft   | . computerized simulation  |
| north or south from the prime vertical to the  |  | analog simulation  |
| vertical circle.   | AN-24 aircraft   | RT computer systems simulation   |
| GS amplitudes  | UF Antonov AN-24 aircraft  | digital simulation   |
| . pulse amplitude  |  | flight simulation  |
| . scattering amplitude   | Coke aircraft  |  |
|  | Coke aircraft GS Antonov aircraft  | rheoelectrical simulation  |
| RT amplification   | GS Antonov aircraft  |  |
| RT amplification cycles  | GS Antonov aircraft . AN-24 aircraft   | rheoelectrical simulation systems simulation   |
| cycles   | GS Antonov aircraft  . AN-24 aircraft jet aircraft   | systems simulation   |
| cycles<br>dimensions   | GS Antonov aircraft  . AN-24 aircraft jet aircraft . turboprop aircraft  | systems simulation analog to digital converters  |
| cycles<br>dimensions<br>displacement   | GS Antonov aircraft  . AN-24 aircraft  jet aircraft  . turboprop aircraft  . AN-24 aircraft  | systems simulation  analog to digital converters  DEF Devices for converting non-digital in  |
| cycles<br>dimensions<br>displacement<br>frequencies  | GS Antonov aircraft  AN-24 aircraft  jet aircraft  turboprop aircraft  AN-24 aircraft  monoplanes  | systems simulation  analog to digital converters  DEF Devices for converting non-digital in formation into digits. Used for digitizers.  |
| cycles<br>dimensions<br>displacement<br>frequencies<br>∞ intensity   | GS Antonov aircraft  . AN-24 aircraft jet aircraft  . turboprop aircraft  . AN-24 aircraft monoplanes . AN-24 aircraft   | systems simulation  analog to digital converters  DEF Devices for converting non-digital in formation into digits. Used for digitizers.  UF digitizers   |
| cycles<br>dimensions<br>displacement<br>frequencies<br>∞ intensity<br>level (quantity)   | GS Antonov aircraft  . AN-24 aircraft jet aircraft . turboprop aircraft . AN-24 aircraft monoplanes . AN-24 aircraft transport aircraft  | systems simulation  analog to digital converters  DEF Devices for converting non-digital in formation into digits. Used for digitizers.  UF digitizers  GS data converters   |
| cycles<br>dimensions<br>displacement<br>frequencies<br>∞ intensity   | GS Antonov aircraft  . AN-24 aircraft jet aircraft  . turboprop aircraft  . AN-24 aircraft monoplanes . AN-24 aircraft   | systems simulation  analog to digital converters  DEF Devices for converting non-digital in formation into digits. Used for digitizers.  UF digitizers   |
| cycles<br>dimensions<br>displacement<br>frequencies<br>∞ intensity<br>level (quantity)   | GS Antonov aircraft  . AN-24 aircraft jet aircraft . turboprop aircraft . AN-24 aircraft monoplanes . AN-24 aircraft transport aircraft  | systems simulation  analog to digital converters  DEF Devices for converting non-digital ir formation into digits. Used for digitizers.  UF digitizers  GS data converters   |
| cycles dimensions displacement frequencies ∞ intensity level (quantity) magnitude oscillations                                   | GS Antonov aircraft  AN-24 aircraft  jet aircraft  turboprop aircraft  AN-24 aircraft  monoplanes  AN-24 aircraft  transport aircraft  AN-24 aircraft  RT ∞ aircraft   | systems simulation  analog to digital converters  DEF Devices for converting non-digital in formation into digits. Used for digitizers.  UF digitizers  GS data converters  analog to digital converters  RT coders                    |
| cycles dimensions displacement frequencies intensity level (quantity) magnitude oscillations phase deviation                     | GS Antonov aircraft  AN-24 aircraft jet aircraft  turboprop aircraft  AN-24 aircraft monoplanes  AN-24 aircraft transport aircraft  AN-24 aircraft  AN-24 aircraft   | systems simulation  analog to digital converters  DEF Devices for converting non-digital ir formation into digits. Used for digitizers.  UF digitizers  GS data converters  analog to digital converters  RT coders  coding            |
| cycles dimensions displacement frequencies ∞ intensity level (quantity) magnitude oscillations phase deviation picosecond pulses | GS Antonov aircraft . AN-24 aircraft jet aircraft . turboprop aircraft . AN-24 aircraft monoplanes . AN-24 aircraft transport aircraft . AN-24 aircraft  Tansport aircraft RT ∞ aircraft passenger aircraft  | systems simulation  analog to digital converters  DEF Devices for converting non-digital information into digits. Used for digitizers.  UF digitizers GS data converters . analog to digital converters  RT coders coding ∞ converters |
| cycles dimensions displacement frequencies intensity level (quantity) magnitude oscillations phase deviation                     | GS Antonov aircraft  AN-24 aircraft  jet aircraft  turboprop aircraft  AN-24 aircraft  monoplanes  AN-24 aircraft  transport aircraft  AN-24 aircraft  RT ∞ aircraft   | systems simulation  analog to digital converters  DEF Devices for converting non-digital in formation into digits. Used for digitizers.  UF digitizers  GS data converters  analog to digital converters  RT coders  coding            |

### analogies

digital electronics dependent variables . . numerical integration digital systems . Fourier analysis ... Runge-Kutta method digital to analog converters Fourier series . . direct numerical simulation Illiac 3 computer . . space-time CE/SE method . function space Illiac 4 computer . . Banach space . truncation errors peripheral equipment (computers) ... Hilbert space . Pfaff equation plotting . Sobolev space . phase-space integral . functional analysis . real variables analogies . . Banach space . . Abel function similarities . . Hilbert space . . asymptotes GS analogies . . . . Sobolev space . . Bessel functions Earth analogs . . convolution integrals . Hankel functions hydraulic analogies . . harmonic analysis Bethe-Salpeter equation RT comparison tesseral harmonics calculus of variations homology zonal harmonics composite functions simulation integral equations delta function Fredholm equations differential equations analogs Blasius equation J integral RT models singular integral equations Chandrasekhar equation simulators Volterra equations cosine series analysis Wiener Hopf equations Duffing differential equation Falkner-Skan equation
hyperbolic differential equations USE analyzing integral transformations Fourier transformation . fast Fourier transformations Lame wave equations partial differential equations . biharmonic equations analysis (mathematics) DEF That part of the field of mathematics which arises from the calculus and which deals primarily with functions. Fourier-Bessel transformations Hilbert transformation Laplace transformation Burger equation Cauchy-Riemann equations
 elliptic differential equations
 Monge-Ampere equation
 Euler-Cauchy equations
 Ffowcs Williams-Hawkings half planes analysis (mathematics) GS Î half spaces
Hill determinant . aperiodic functions calculus continuity (mathematics) . numerical analysis differential calculus . approximation equation Fokker-Planck equation Fourier-Bessel transformations Born approximation Born-Oppenheimer approximation Graeff calculus integral calculus Chebyshev approximation . . . . Gauss equation limits (mathematics) Eddington approximation Helmholtz vorticity equation series (mathematics) essentially non-oscillatory Liouville equations asymptotic series schemes parabolic differential equations Campbell-Hausdorff series ... finite difference theory Poisson equation cosine series .... finite difference time domain vlasov equations Fourier series method Riccati equation Pade approximation finite element method vorticity equations power series Hartree approximation . Helmholtz vorticity equation Taylor series least squares method Einstein equations . MacLaurin series mean square values existence theorems Milne method . progressions . . extremum values Prony series multigrid methods limits (mathematics) . . sine series Newton methods . . . maxima Newton-Raphson method vector analysis . . . minima . . collinearity boundary element method . Cramer-Rao bounds coplanarity discretization (mathematics) Fourier-Bessel transformations . . Green's functions numerical differentiation ... curl (vectors) . vorticity Oseen approximation hyperbolic functions . combinatorial analysis Pade approximation . . hyperplanes particle in cell technique Jacobi integral . . binomial coefficients . . Jacobi integral
. . Jacobi matrix method
. . kernel functions . . combinations (mathematics) Pohlhausen method . . factorials predictor-corrector methods Rayleigh-Ritz method relaxation method (mathematics) Reynolds averaging Ritz averaging method . . Liapunov functions . . partitions (mathematics) . permutations . complex variables . Airy function . . linear equations
. . . Ffowcs Williams-Hawkings equation analytic functions Schwartz method linear evolution equations Sommerfeld approximation entire functions Riccati equation TVD schemes . . Lipschitz condition Bessel functions upwind schemes (mathematics) vortex in cell technique Hankel functions . . measure and integration Cauchy integral formula binary integration conformal mapping Trefftz method Borel sets conjugates boundary integral method functional integration . conjugate points computational astrophysics integral calculus exponential functions computational chemistry J integral . logarithms computational electromagnetics Lebesgue theorem gamma function computational fluid dynamics numerical integration harmonic functions difference equations Runge-Kutta method hyperbolic functions error analysis Stieltjes integral hypergeometric functions . . finite volume method weighting functions Laguerre functions Godunov method . . Neumann problem Legendre functions flux difference splitting . . nonlinear equations Liouville theorem flux vector splitting cubic equations Mathieu function Glimm method Duffing differential equation meromorphic functions Graeff calculus Monge-Ampere equation . . . elliptic functions nonlinear evolution equations interpolation rational functions iteration quadratic equations . . nonholonomic equations . . . conjugate gradient method . . . quartic equations orthogonal functions iterative solution . . numerical differentiation . Walsh function Newton methods . . periodic functions . . . trigonometric functions Schwarz-Christoffel transformation . Newton-Raphson method . . singularity (mathematics)
. . naked singularities predictor-corrector methods ... cosine series Monte Carlo method . sine series . . spherical harmonics . . . . tangents . . nomographs

|           | series (mathematics)                      |            | curves (geometry)                      | GS     | chalcogenides               |
|-----------|---|------------|--|--------|-----------------------------|
|           | asymptotic series                         | ~          | cylinders                              | 00     | . oxides                    |
|           | Campbell-Hausdorff series                 |            | descriptive geometry                   |        | metal oxides                |
|           | cosine series                             |            | differential geometry                  |        | titanium oxides             |
|           | Fourier series                            |            | polytopes                              |        | anatase                     |
|           | Pade approximation                        |            | projective geometry                    |        | minerals                    |
|           | power series                              |            |  |        | . anatase                   |
|           | Taylor series                             | analytic   | al chemistry                           |        | titanium compounds          |
|           | MacLaurin series                          | RT         | chemical analysis                      |        | . titanium oxides           |
|           | progressions                              | ∞          | chemistry                              |        | anatase                     |
|           | Prony series                              |            | inorganic chemistry                    | RT     | pigments                    |
|           | sine series                               |            | qualitative analysis                   |        | rutile                      |
|           | Sturm-Liouville theory                    |            | quantitative analysis                  |        |                             |
|           | vector analysis                           |            | volumetric analysis                    | anatom | nv.                         |
|           | collinearity                              | analyzei   | re                                     | SN     | (LIMITED TO ANIMAL ANATOMY) |
|           | coplanarity                               | SN         | (EXCLUDES DEVICES FOR                  | ĞS     | anatomy                     |
|           | curl (vectors) vorticity                  | OIV        | PERFORMING MATHEMATICAL                |        | . abdomen                   |
|           | Weierstrass functions                     |            | ANALYSIS)                              |        | . chest                     |
|           | Whittaker functions                       | GS         | measuring instruments                  |        | breast                      |
|           | . frequency domain analysis               |            | . analyzers                            |        | mammary glands              |
|           | . time domain analysis                    |            | engine analyzers signal analyzers      |        | . circulatory system        |
|           | finite difference time domain             | RT         | controllers                            |        | cardiovascular system       |
|           | method                                    |            | detectors                              |        | blood vessels               |
| RT        | algebra                                   |            | monitors                               |        | arteries                    |
| ~         | analyzing                                 |            | selectors                              |        | aorta                       |
| ~         | applications of mathematics               | ∞          | test equipment                         |        | arterioles                  |
|           | discontinuity                             |            | • •                                    |        | capillaries (anatomy)       |
|           | equilibrium equations                     | ∞ analyzir | ng                                     |        | glomerulus<br>veins         |
|           | geometry                                  | SN         | (USE OF A MORE SPECIFIC TERM IS        |        | heart                       |
| ~         | mathematics                               |            | RECOMMENDEDCONSULT THE TERMS           |        | cardiac auricles            |
|           | monotone functions                        | UF         | LISTED BELOW) analysis                 |        | cardiac ventricles          |
| ~         | space                                     | 0.         | instrumental analysis                  |        | epicardium                  |
|           | trees (mathematics)                       | RT         | activation analysis                    |        | heart conduction system     |
|           | vector spaces                             |            | algebra                                |        | myocardium                  |
|           | Venn diagrams                             |            | analysis (mathematics)                 |        | . digestive system          |
| analysis  | s of variance                             |            | chemical analysis                      |        | esophagus                   |
|           | A systematic statistical procedure for    |            | combinatorial analysis                 |        | gastrointestinal system     |
|           | ning the sources and the magnitudes of    |            | cost analysis                          |        | appendix (anatomy)          |
| the erro  | rs present in a measurement process,      |            | creep analysis                         |        | intestines                  |
| and for a | assessing the significance of differences |            | design analysis                        |        | rectum                      |
| betweer   | materials, processes, or test methods     |            | diagnosis                              |        | stomach                     |
| under st  | •   |            | differential geometry                  |        | mouth                       |
| GS        | statistical analysis                      |            | duality principle                      |        | lips (anatomy)              |
|           | . variance (statistics)                   |            | error analysis evaluation              |        | pancreas                    |
| БТ        | analysis of variance                      |            | examination                            |        | salivary glands<br>teeth    |
| RI∝       | variance                                  |            | failure analysis                       |        | tongue                      |
| analytic  | functions                                 |            | figure of merit                        |        | . face (anatomy)            |
| UF        | holomorphism                              |            | forecasting                            |        | chin                        |
| GS        | analysis (mathematics)                    |            | management analysis                    |        | forehead                    |
|           | . complex variables                       |            | multivariate statistical analysis      |        | mouth                       |
|           | . analytic functions                      |            | network analysis                       |        | lips (anatomy)              |
|           | entire functions                          |            | numerical analysis                     |        | nose (anatomy)              |
|           | functions (mathematics)                   |            | photointerpretation                    |        | . genitourinary system      |
|           | analytic functions                        |            | postflight analysis                    |        | bladder                     |
|           | entire functions                          |            | prediction analysis techniques         |        | kidneys                     |
| RT        | Cauchy-Riemann equations                  |            | preflight analysis                     |        | glomerulus                  |
|           | isoperimetric problem                     |            | reliability analysis                   |        | reproductive systems        |
|           | nonholonomic equations                    |            | sensitivity analysis                   |        | sex glands                  |
|           | power series                              |            | signal analysis signature analysis     |        | gonads                      |
| onolytic  | goomotry                                  |            | ,                                      |        | ovaries                     |
| GS        | geometry<br>geometry                      |            | spectrum analysis statistical analysis |        | testes prostate gland       |
| 33        | . Euclidean geometry                      |            | stress analysis                        |        | uterus                      |
|           | analytic geometry                         |            | structural analysis                    |        | . glands (anatomy)          |
|           | catenaries                                |            | systems analysis                       |        | endocrine glands            |
|           | circumferences                            |            | terrain analysis                       |        | adrenal gland               |
|           | conics                                    |            | thermal analysis                       |        | gonads                      |
|           | ellipses                                  |            | training analysis                      |        | ovaries                     |
|           | hyperbolas                                |            | trajectory analysis                    |        | testes                      |
|           | parabolas                                 |            | trend analysis                         |        | hypothalamus                |
|           | cycloids                                  |            | weight analysis                        |        | pancreas                    |
|           | epicycloids                               |            | x ray analysis                         |        | parathyroid gland           |
|           | loci                                      |            |  |        | pineal gland                |
|           | Mercator projection                       | anaphyl    |  |        | pituitary gland             |
|           | quadrants                                 | GS         | sensitivity                            |        | thymus gland                |
|           | S curves                                  | 5.7        | . anaphylaxis                          |        | thyroid gland               |
|           | Gompertz curves                           | RT         | allergic diseases                      |        | mammary glands              |
|           | spheroids                                 |            | antigens                               |        | salivary glands             |
|           | oblate spheroids                          |            | immunology                             |        | sebaceous glands            |
|           | prolate spheroids                         |            | sensitizing                            |        | sex glands<br>gonads        |
|           | tangents toruses                          | anastigr   | natism                                 |        | gonads<br>ovaries           |
|           | trigonometry                              |            | optometry                              |        | testes                      |
| RT        | annuli                                    | 111        | vision                                 |        | prostate gland              |
| 131       | asymptotes                                |            |  |        | . head (anatomy)            |
|           | calculus                                  | anatase    |  |        | skull                       |
|           | coordinates                               | UF         | octahedrite                            |        | cranium                     |

### anchors (fasteners)

| intracranial cavity        | cochlea                                      | . Andorra   |
|----------------------------|--|---|
| mastoids                   | Corti organ                                  | RT Europe   |
| . human body               | otolith organs                               | France  |
| . limbs (anatomy)          | semicircular canals                          | Pyrenees Mountains (Europe)   |
| arm (anatomy)              | vestibules                                   | Spain   |
| elbow (anatomy)            | middle ear                                   |   |
| forearm                    | eye (anatomy)                                | Audenia   |
|                            | choroid membranes                            | ∞ Andromeda   |
| hand (anatomy)             | conjunctiva                                  | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERI             |
| fingers                    | cornea                                       | LISTED BELOW)   |
| leg (anatomy)              | oculomotor nerves                            | RT Andromeda Constellation  |
| feet (anatomy)             | pupils                                       | Andromeda Galaxy  |
| knee (anatomy)             | retina                                       | r in aronnoual Galaxy   |
| thigh                      | fovea  |   |
| . liver                    |  | Andromeda Constellation   |
| . lumbar region            | gravireceptors                               | GS constellations   |
| . musculoskeletal system   | otolith organs                               | . Andromeda Constellation   |
| bones                      | baroreceptors                                | RT ∞ Andromeda  |
| femur                      | mechanoreceptors                             | Andromeda Galaxy  |
|                            | photoreceptors                               | Allaromoda Galaxy   |
| pelvis                     | proprioceptors                               |   |
| scapula                    | thermoreceptors                              | Andromeda Galaxy  |
| skull <sub>.</sub>         | . skin (anatomy)                             | GS celestial bodies   |
| cranium                    | epidermis                                    | . galaxies  |
| intracranial cavity        | . immune systems                             | spiral galaxies   |
| mastoids                   | . thorax                                     | Andromeda Galaxy  |
| spine                      | . torso                                      | RT ∞ Andromeda  |
| vertebrae                  | lymphatic system                             |   |
| sternum                    | spleen                                       | Andromeda Constellation   |
| tibia                      | •  | local group (astronomy)   |
| ulna                       | thymus gland                                 |   |
| joints (anatomy)           | RT appendages                                | anechoic chambers   |
| elbow (anatomy)            | bifurcation (biology)                        |   |
| knee (anatomy)             | biodynamics                                  | DEF Enclosures especially designed viboundaries that absorb sufficiently well |
| Wrist                      | ∞ biology                                    | ,   |
| muscles                    | cells (biology)                              | sound incident thereon to create an essenti                                   |
|                            | ∞ differentiation                            | field-free condition in the frequency ranges                                  |
| constrictors               | differentiation (biology)                    | interest.   |
| diaphragm (anatomy)        | dorsal sections                              | GS compartments   |
| flexors                    | epithelium                                   | . test chambers   |
| myocardium                 | exoskeletons                                 | anechoic chambers   |
| skeletal muscle            | hepatitis                                    | test facilities   |
| smooth muscle              | morphology                                   | . anechoic chambers   |
| tendons                    | organs                                       | RT acoustic attenuation   |
| cartilage                  | posterior sections                           | acoustic measurement  |
| . neck (anatomy)           | tissues (biology)                            | acoustics   |
| nervous system             | vestibular nystagmus                         | ∞ chambers  |
| afferent nervous systems   |  | zero sound  |
| autonomic nervous system   | viscera                                      | 2010 304114   |
| sympathetic nervous system |  |   |
| central nervous system     | anchors (fasteners)                          | anelasticity  |
| ,                          | GS fasteners                                 | GS mechanical properties  |
| brain                      | . anchors (fasteners)                        | . elastic properties  |
| brain stem                 | RT ∞ bands                                   | anelasticity  |
| cerebellum                 | bolts  | RT creep properties   |
| cerebral ventricles        | brackets                                     | internal friction   |
| cerebrum                   | clips  | modulus of elasticity   |
| cerebral cortex            | couplings                                    |   |
| occipital lobes            | guy wires                                    | stress relaxation   |
| diencephalon               | holders                                      |   |
| hypothalamus               | mooring                                      | anemias   |
| pineal gland               | nuts (fasteners)                             | GS diseases   |
| thalamus                   | screws                                       | . anemias   |
| hippocampus                | straps                                       | RT blood  |
| spinal cord                | studs (structural members)                   | blood cell count  |
| efferent nervous systems   | tetherlines                                  |   |
| nerves                     | tetrierinies                                 | blood cells   |
| ganglia                    | Andes Mountains (South America)              | hematocrit ratio  |
| myelin sheath              | GS landforms                                 | hemoglobin  |
| nerve fibers               | . mountains                                  | ischemia  |
| oculomotor nerves          |  | occupational diseases   |
| peripheral nervous system  | . Andes Mountains (South                     |   |
| . peritoneum               | America) RT South America                    | anemometers   |
|                            | RT South America                             | DEF Instruments used to measure   |
| . pleurae                  | 1 3  |   |
| . respiratory system       | andesite                                     | speed of air currents, usually measured from                                  |
| bronchi                    | DEF Volcanic rock composed essentially of    | rotation of wind drivin cups or from wind pr                                  |
| diaphragm (anatomy)        | andesine and one or more mafic constituents. | sure through a tube pointed into the wind.                                    |
| larynx                     | GS aluminum compounds                        | GS measuring instruments  |
| glottis                    | . aluminum silicates                         | . anemometers   |
| vocal cords                | andesite                                     | drag force anemometers  |
| lungs                      | rocks  | hot-film anemometers  |
| alveoli                    | . andesite                                   | hot-wire anemometers  |
| nose (anatomy)             | silicon compounds                            | laser anemometers   |
| paranasal sinuses          | . silicates                                  | sonic anemometers   |
| pharynx                    | aluminum silicates                           | RT aircraft instruments   |
| trachea                    | andesite                                     | flow measurement  |
|                            |  |   |
| . sciatic region           | RT feldspars                                 | meteorological instruments  |
| . sense organs             | igneous rocks                                | speed indicators  |
| chemoreceptors             | minerals                                     | velocity measurement  |
| ear                        | soils  | wind (meteorology)  |
| eardrums                   | A. L.  | wind measurement  |
| eustachian tubes           | Andorra                                      | wind vanes  |
| labyrinth                  | GS nations                                   | wind velocity   |
|                            |  |   |

wind velocity measurement changes in that content produce antagonistic or yo-yo devices inactive compounds. GS organic compounds anemometry angular correlation USE velocity measurement . peptides correlation . . polypeptides angular correlation angiotensins anesthesia data correlation neurotransmitters anesthesia GS MATTS (systems) . electroanesthesia view effects analgesia vasoconstriction RT vasoconstrictor drugs hypnosis angular distribution sensory perception distribution (property) unconsciousness . angular distribution electron density profiles elementary particle interactions angle of attack The angle between a reference line anesthesiology fixed with respect to an airframe and a line in the GS medical science direction of movement of the body. flux density force distribution GS geometry

Euclidean geometry

angles (geometry)

angle of attack anesthesiology chloroform mass distribution clinical medicine moment distribution depressants nuclear scattering diagnosis . . . . zero angle of attack aerodynamic characteristics star distribution drugs pharmacology aerodynamic stalling angular momentum ∞ attack ĞS anesthetics momentum boundary layer separation angular momentum GS drugs classical mechanics . anesthetics sweep angle . . chloroform Clebsch-Gordan coefficients wing rock cyclopropane electron spin . . methyl chloride kinetics angles (geometry) moments of inertia . novocain The inclination to each other of two particle spin RT ethers intersecting lines, measured by the arc of a quantum numbers circle intercepted between the two lines forming quantum theory angels (radar) the angle, the center of the circle being the point quenching (atomic physics)
Racah coefficient Echos of false radar targets caused by of intersection. atmospheric inhomogeneity, atmospheric refracgeometry Regge poles tion, insects, birds, or unknown phenomena. . Euclidean geometry GS echoes spin . . angles (geometry) spin tests . radar echoes . . . angle of attack stellar rotation . . angels (radar) . zero angle of attack transverse momentum alint Bragg angle Wigner coefficient radar cross sections Brewster angle radio echoes dihedral angle angular motion elevation angle angina pectoris look angles (electronics) USE angular velocity diseases . look angles (electronic . look angles (tracking) . sweep angle GS . heart diseases angular resolution . . angina pectoris . . . . sweepback
. . . . leading edge sweep Specifically, the ability of a radar to RT anoxia distinguish between two targets solely by the arteriosclerosis RT angular resolution measurement of angles. coronary artery disease emotional factors apsides GS resolution azimuth . angular resolution heart function complements (mathematics) accuracy heart rate corners angles (geometry) myocardium elongation high resolution physical exercise goniometers ∞ optics stress (physiology) grade radar resolution gradients angiogenesis grazing incidence angular velocity (added June 2004) incidence The change of angle per unit time; DFF The development of new blood vesobliqueness specifically, in celestial mechanics, the change in angle of the radius vector per unit time. Used for angular motion. phase shift neovascularization . photogoniometers RT blood vessels pitch (inclination) angular motion rates (per time) UF cardiovascular system profiles GS ∞ development protractors . angular velocity growth reciprocal theorems velocity hematopoietic system slopes angular velocity triangulation gyration orbital velocity angiography trigonometry imagery proper motion radiography Angola revolving . angiography GS nations rotation RT brain Angola rotor speed cardiology RT Africa Sagnac effect cardiovascular system tachometers tip speed angiosperms angular acceleration grains (food) The rate of change of angular velocity. nuts (fruits) rates (per time) anhydrides plants (botany) . acceleration (physics) GS chalcogenides vegetables ... angular acceleration . oxides RT ∞ acceleration . . anhydrides . . . peroxides angiotensins acceleration measurement (added August 2004) centrifugal force inorganic peroxides DEF Oligopeptides ranging in size from angiotensin precursors with 14 amino acids to the . . . . hydrogen peroxide centripetal force

deceleration

spin reduction transverse acceleration

rotation

active vasoconstrictor angiotensin II with 8 amino acids, or their analogs or derivatives. The amino acid content varies with the species and

.... organic peroxides

. . . . potassium peroxides

... sodium peroxides

RT acids

|         | bases (chemical)                            | . invertebrates  | snakes  |
|---------|---|------------------|---|
|         |   | arthropods       | turtles   |
| Anik 1  |   | artemia          | . wildlife  |
| UF      | Anik A                                      | crabs            | . zooplankton                                     |
|         | Telesat Canada A                            | insects          | RT ∞ biology                                      |
| GS      | artificial satellites                       | bees             | biomass   |
|         | . synchronous satellites                    | bollworms        | carbon cycle                                      |
|         | Anik satellites                             | chironomus flies | census  |
|         | Anik 1                                      | cockroaches      | endangered species                                |
|         | Canadian spacecraft                         | Coleoptera       | food chain  |
|         | . Anik satellites                           | beetles          | grazing   |
| БТ      | Anik 1                                      | tribolia         | habitats  |
| RT      | Canada                                      | boll weevils     | heterotrophs                                      |
|         | Canadian space program                      | crickets         | larvae  |
|         | Delta launch vehicle                        | Drosophila       | microorganisms                                    |
|         | international cooperation                   | fireflies        | organisms   |
| Anik 2  |   | grasshoppers     | parasites   |
| UF      | Anik B                                      | locusts          | plankton  |
| Oi      | Telesat Canada B                            | moths            | plants (botany)                                   |
| GS      | artificial satellites                       | silkworms        | predators   |
| 03      | . synchronous satellites                    | spiders          | viability   |
|         | Anik satellites                             | mollusks         | wildlife radiolocation                            |
|         | Anik 2                                      | cephalopods      | ∞ zoology   |
|         | Canadian spacecraft                         | octopuses        | animation   |
|         | . Anik satellites                           | snails           | GS arts   |
|         | Anik 2                                      | Rotifera         |   |
| RT      | Canada                                      | sea urchins      | . graphic arts<br><b>animation</b>                |
| 111     | Canadian space program                      | worms            | computer animation                                |
|         | Delta launch vehicle                        | flatworms        | RT cinematography                                 |
|         | international cooperation                   | . livestock      | motion pictures                                   |
|         | international cooperation                   | . poikilothermia | motion pictures                                   |
| Anik 3  |   | . protozoa       | anions  |
| UF      | Anik C                                      | amoeba           | GS ions   |
| 0.      | Telesat Canada 3                            | pelomyxa         | . negative ions                                   |
|         | Telesat Canada C                            | . Flagellata     | anions  |
| GS      | artificial satellites                       | Euglena          | RT amino radical                                  |
|         | . synchronous satellites                    | trypanosome      | anodes  |
|         | Anik satellites                             | paramecia        | cations   |
|         | Anik 3                                      | . vertebrates    | cell anodes                                       |
|         | Canadian spacecraft                         | amphibia         | electrode materials                               |
|         | . Anik satellites                           | frogs            | electron affinity                                 |
|         | Anik 3                                      | birds            | ionic mobility                                    |
| RT      | Canada                                      | chickens         | ·-····y   |
|         | Canadian space program                      | pigeons          | anisole   |
|         | international cooperation                   | turkeys          | GS ethers   |
|         |   | waterfowl        | . anisole   |
| Anik A  |   | fishes           | organic compounds                                 |
| USE     | Anik 1                                      | schools (fish)   | . cyclic compounds                                |
|         |   | sharks           | heterocyclic compounds                            |
| Anik B  |   | mammals          | anisole   |
| USE     | Anik 2                                      | bats             |   |
|         |   | bears            | anisoplanatism                                    |
| Anik C  |   | cats             | (added May 1999)                                  |
| USE     | Anik 3                                      | cattle           | DEF In adaptive optics (AO) systems,              |
|         |   | calves           | performance-degrading effect that arises when     |
| Anik sa |   | deer             | ever light from the wave-front sensor beacon      |
|         | A series of geostationary communica-        | caribous         | and light from the target object sample differen  |
|         | ellites operated by Telesat which is partly | goats            | volumes of optical turbulence. This effect result |
|         | by the Canadian government and partly       | horses           | in an increased value of the aperture-average     |
|         | y private enterprise. The name "Anik" is    | marine mammals   | residual phase variance after AO compensation     |
|         | from an Eskimo word meaning "brother.       | dolphins         | which causes an exponential decrease in sys       |
|         | so designated because of its partial use    | manatees         | tem performance.                                  |
|         | ar North.                                   | porpoises        | RT aberration                                     |
| GS      | artificial satellites                       | seals (animals)  | adaptive optics                                   |
|         | . synchronous satellites                    | whales           | atmospheric correction                            |
|         | Anik satellites                             | moles            | atmospheric optics                                |
|         | Anik 1                                      | primates         | image resolution                                  |
|         | Anik 2                                      | apes             | optical correction procedure                      |
|         | Anik 3                                      | chimpanzees      | phase error                                       |
|         | Canadian spacecraft                         | baboons          | telescopes  |
|         | . Anik satellites                           | human beings     |   |
|         | Anik 1                                      | monkeys          | anisotropic fluids                                |
|         | Anik 2                                      | rodents          | GS media  |
| DT      | Anik 3                                      | guinea pigs      | . anisotropic media                               |
| ΚI      | Canadian space program                      | hamsters         | anisotropic fluids                                |
|         | Delta launch vehicle                        | mice             | RT anisotropy                                     |
|         | international cooperation                   | jerboas          | ∞ fluids  |
| anilina |   | knockout mice    | invariant imbeddings                              |
| aniline | organic compounds                           | pocket mice      | isotropy  |
| GS      | organic compounds                           | rabbits          | liquid crystals                                   |
|         | . amines                                    | rats             | Newtonian fluids                                  |
| рт      | aniline                                     | squirrels        | anicetronia madia                                 |
| RT      | dyes  | ground squirrels | anisotropic media                                 |
| onima!- |   | dogs             | GS media  |
| animals |   | sheep            | . anisotropic media                               |
| UF      | fauna                                       | swine            | anisotropic fluids                                |
| 00      | metazoa<br>animale                          | wolves           | RT anisotropy                                     |
| GS      | animals                                     | reptiles         | birefringence                                     |
|         | . homeotherms                               | lizards          | birefringent coatings                             |

functionally gradient materials tempering coaxial flow homogeneity conical nozzles isotropic media annihilation reactions exhaust nozzles materials annihilation reactions inlet nozzles positron annihilation ∞ nozzles polarization (waves) antiparticles plug nozzles electron-positron pairs rocket nozzles anisotropic plates nonisotropic plates high energy interactions shrouded nozzles structural members matter-antimatter propulsion spray nozzles . plates (structural members) proton-antiproton interactions . anisotropic plates annular plates proton-proton reactions cantilever plates RT GS structural members end plates . plates (structural members) perforated plates annotations . annular plates abstracts reinforced plates annuli information circular plates summaries flat plates anisotropic shells shells (structural forms) annual variations anisotropic shells annular suspension and pointing system interannual variations UF corrugated shells DEF In the Shuttle era, high accuracy pointseasonal variations elastic shells ing and stabilization of an experiment payload. GS variations reinforced shells GS pointing control systems . periodic variations . annular suspension and pointing . annual variations system anisotropy atmospheric circulation DEF Having different properties in different directions. Used for nonisotropy, onisotropy, RT magnetic suspension brown wave effect payloads cycles photothermotropism, and thermotropism.

UF nonisotropy space shuttles green wave effect space transportation system intraseasonal variations onisotropy photothermotropism Spacelab Madden-Julian Oscillation Spacelab payloads magnetic variations thermotropism ∞ systems meteorological parameters anisotropy
. plastic anisotropy GS meteorology annuli monsoons analytic geometry annular flow . elastic anisotropy quasi-biennial oscillation RT aeolotropism seasons anisotropic fluids annular nozzles temporal distribution anisotropic media annular plates weather flow measurement birefringence wind variations crystal structure ∞ rings zonal flow (meteorology) crystals directivity anodes annular core pulse reactors isotropy DEF The positive poles or electrodes of nuclear reactors GS mechanical properties electron emitters, such as electron tubes or annular core pulse reactors metallography electric cells. RT ∞ nuclear energy polarization (spin alignment) GS electrodes nuclear fuel elements polarization (waves) . anodes nuclear fuels spatial distribution . . cell anodes reactor cores shell anodes Sunyaev-Zeldovich effect reactor design . . tube anodes reactor materials RT accumulators Anna hurricane reactor physics anions GS storms reactor safety cathodes . storms (meteorology) reactor technology electrode materials . . cyclones  $\infty$  reactors multi-anode microchannel arrays . . . hurricanes . . . . Anna hurricane annular ducts . . tropical storms anodic coatings DEF Ring-shaped openings for the passage ... hurricanes GS coatings of fluids (gases, etc.) designed for optimum .... Anna hurricane . inorganic coatings aerodynamic flow properties for the application . . anodic coatings involved. . protective coatings ANNA satellites GS ducts GS artificial satellites . anodic coatings annular ducts . geodetic satellites anodizing RT air ducts ANNA satellites cathodic coatings duct geometry Explorer 29 satellite electrode materials ducted bodies oxides Explorer 36 satellite fluid flow GEOS 1 satellite intake systems GEOS 2 satellite anodic stripping nose inlets GEOS 3 satellite DFF The removal of metal coatings. openings cladding orifices coating vents debonding (materials) delaminating Application of heat energy to a material annular flow cooling at a suitable rate to relieve stresses, metal coatings change certain properties, improve machinabilfluid flow ity, or for realignment of atoms in a distorted . axisymmetric flow plating lattice as caused, for example, by radiation . . annular flow removal damage. annuli stripping heat treatment axial flow . annealing channel flow anodizing . . laser annealing coaxial flow DEF An electrolytic oxidation process in . pulse heating Couette flow which the surface of a metal, when anodic, is combustion synthesis converted to a coating having desirable protec- $\infty$  flow graphitization flow geometry tive, decorative, or functional properties. GS coating
. anodizing hardening (materials) heat transmission nozzle flow heating normalizing (heat treatment) one dimensional flow deposition anodizing recrystallization turbulent flow simulated annealing anodic coatings

annular nozzles

RT annuli

softening

stress relieving

passivity

protective coatings

surface treatment . sounding rockets plasma antennas . Antares rocket vehicle product development anolytes atmospheric ionization rhombic antennas GS conductors solid propellant rocket engines sidelobes electrolytes X-254 engine slot antennas anolytes space technology experiments RT catholytes Antelope missile spiral antennas cell anodes GS missiles Yagi antennas . Antelope missile anomalies antenna feeds In general, deviations from the norm. antenna arrays DEF GS antenna components anomalies DEF Systems of antennas coupled together antenna feeds geothermal anomalies to obtain directional effects, or to increase sen-RT Gregorian antennas gravity anomalies
magnetic anomalies
geomagnetic hollow reflector antennas arrays strip transmission lines . antenna arrays transmission lines anomalous temperature zones . . linear arrays waveguides Southern Oscillation ... endfire arrays . . . . Yagi antennas antenna fields anomalous temperature zones . . . multispectral linear arrays USE antenna radiation patterns anomalies . . steerable antennas aevsers ... inertialess steerable antennas antenna gain stratospheric warming . . turnstile antennas (added June 1998) temperature measurement amplification antennas temperature measuring instruments . antenna gain beamforming temperature scales Cobra Dane (radar) antennas temperature sensors dipole antennas automatic gain control directional antennas directional antennas anorthosite log periodic antennas effectiveness A group of essentially monomineralic microwave antennas high gain plutonic igneous rocks composed almost enpatch antennas signal reception tirely of plagioclass feldspar. phased arrays ĠS rocks retroreflection antenna radiation patterns . igneous rocks antenna fields space based radar . anorthosite Very Large Array (VLA) distribution (property) feldspars RT Very Long Baseline Array (VLBA) . radiation distribution gabbro . . antenna radiation patterns soils . . sidelobes antenna components GS antenna components antennas anoxia backfire antennas . antenna couplers A complete lack of oxygen available for . . diplexers backlobes physiological use within the body. . . directional couplers beam steering RT angina pectoris . antenna feeds beamforming asphyxia parasitic elements (antennas) cylindrical antennas hvpoxia . directors (antenna elements) directional antennas stress (physiology) communication equipment ∞ fans far fields ∞ components **ANS** field theory (physics) couplers **Astronomical Netherlands Satellite** footprints electronic equipment Fresnel region Gregorian antennas ∞ spinners Antarctic environment USE ice environments antenna couplers ∞ lobes GS antenna components near fields Antarctic Ocean parasitic elements (antennas) . antenna couplers GS oceans . . diplexers pencil beams **Antarctic Ocean** directional couplers plasma antennas Antarctic regions ∞ radiation couplers . antenna couplers reflector antennas Antarctic regions . . diplexers rosette shapes The areas surrounding and including the continent of Antarctica. Used for Antarctica. . directional couplers Schelkunoff principle antennas Sommerfeld approximation Antarctica couples support interference GS regions coupling synthetic arrays . polar regions coupling circuits . Antarctic regions energy transfer antennas . McMurdo sound Conductors or systems of conductors . . . Ross ice shelf impedance matching DEF microwave coupling for radiating or receiving radio waves. . remote regions . . Antarctic regions transmission lines GS antennas . aircraft antennas . . . McMurdo sound . . . Ross ice shelf Southern Hemisphere antenna design . backfire antennas antennas . Cassegrain antennas backlobes . cylindrical antennas . Antarctic regions Cassegrain antennas . delta antennas McMurdo sound delta antennas . directional antennas . Ross ice shelf design . . dipole antennas RT Antarctic Ocean dipole antennas . . helical antennas climatology gravitational wave antennas . . horn antennas continents Gregorian antennas . . lens antennas land ice helical antennas . . log periodic antennas ozone depletion horn antennas .. loop antennas polar caps lens antennas . . radar antennas lobes . . . radant Total Ozone Mapping Spectrometer log periodic antennas . . reflector antennas . . . parabolic antennas maypole antennas Antarctica microstrip antennas two reflector antennas USE Antarctic regions monopole antennas . . rhombic antennas parabolic antennas Antares rocket vehicle . . slot antennas . . steerable antennas GS rocket vehicles parasitic elements (antennas) . inertialess steerable antennas . multistage rocket vehicles patch antennas . . Antares rocket vehicle pencil beams

. . Yagi antennas

|  | . furlable antennas  |                      | resources   |   | steroids   |
|--|--|----------------------|---|---|--|
|  | . gravitational wave antennas  |                      | . Earth resources   |   |  |
|  | LIGO (observatory)   |                      | fossil fuels  | antiboo   | lies   |
|  | . LISA (observatory)   |                      | coal  | GS  | antibodies   |
|  | . Gregorian antennas   |                      | anthracite  |   | . gamma globulin   |
|  | . high resolution coverage antennas . hoop column antennas   |                      | rocks . sedimentary rocks   | RT  | acquired immunodeficiency syndrome   |
|  | . maypole antennas   |                      | carbonaceous rocks  |   | antiserums   |
|  | . microstrip antennas  |                      | coal  |   | biocompatibility   |
|  | . missile antennas   |                      | anthracite  |   | human immunodeficiency virus   |
|  | . monopulse antennas   | RT                   | mineral exploration   |   | immune systems   |
|  | . multibeam antennas   |                      | mining  |   | immunology   |
|  | . multiple beam interval scanners  |                      | 9   |   | inoculum   |
|  | . omnidirectional antennas   |                      |   |   | lymphatic system   |
|  | monopole antennas  |                      | quinones  |   | physiological defenses   |
|  | whip antennas  | GS                   | ketones   |   | vaccines   |
|  | turnstile antennas   | DT                   | . anthraquinones  |   |  |
|  | . parasitic elements (antennas)  | RT                   | anthracene  | anticho   | olinergics   |
|  | . directors (antenna elements)   |                      | dyes  | UF  | cholinergic blocking agents  |
|  | plasma antennas  |                      |   | GS  | drugs  |
|  | . radio antennas   | anthro               |   |   | . cholinergics   |
|  | microwave antennas   |                      | The study of the interrelations of bio-   |   | anticholinergics   |
|  | horn antennas  |                      | cultural, geographical, and historical as-  | RT  | curare   |
|  | lens antennas  | pects o              |   |   |  |
|  | rectennas  | RT                   | aborigines  | anticlin  | 200  |
|  | spacetennas  |                      | American Indians  | DEF   |  |
|  | . satellite antennas   |                      | anthropometry   |   | ne core of which contain stratigraphically   |
|  | . Schwarzschild antennas   |                      | archaeology   |   | cks; they convex upward. Used for anti-  |
|  | . spacecraft antennas  |                      | artifacts   | clinoria.   |  |
|  | . spherical antennas   |                      | case histories  | UF  | anticlinoria   |
|  | . spiral antennas  |                      | cities  | RT  | domes (geology)  |
|  | . log spiral antennas  |                      | culture (social sciences)   |   | geosynclines   |
|  | waveguide antennas   |                      | Eskimos   | c   | ∞ layers   |
|  | horn antennas  |                      | human beings<br>minorities  |   | strata   |
| БТ   | . patch antennas   |                      |   |   | stratification   |
| RT   | antenna arrays   |                      | museums race factors  |   | stratigraphy   |
|  | antenna couplers   |                      |   |   | synclines  |
|  | antenna design   |                      | races (anthropology)<br>∞ science   |   | ,  |
|  | antenna gain   |                      | social factors  | a ntialin   | a via  |
|  | antenna radiation patterns   |                      | sociology   | anticlino   |  |
|  | arrays   |                      | Sociology   | USE   | anticlines   |
|  | conductors   |                      |   |   |  |
|  | corners  |                      | pometry   | anticoa   | gulants  |
|  | current sheets   | GS                   | bioengineering  | RT  | adrenergics  |
|  | electromagnetic radiation folding structures   |                      | . biometrics  | c   | ∞ agents   |
|  | inflatable space structures  |                      | body measurement (biology)  |   | heparins   |
|  | near fields  |                      | anthropometry   |   | preservatives  |
|  | radiation hardening  | RT                   | anthropology  |   | stabilizers (agents)   |
|  | radiation hardening  |                      | body size (biology)   |   |  |
|  | radio equipment  |                      | ∞ engineering   | anticoi   | ncidence detectors   |
|  | radio telescopes   |                      | human factors engineering   |   | ed August 2000)  |
|  | reflectors   |                      |   | ĎEF   | Detectors and related systems that dif   |
|  | slewing  | antiadr              | energics  |   | te ambient background noise from sig-  |
|  | space technology experiments   | GS                   | drugs   |   | interest by identifying unwanted inpu  |
|  | telecommunication  |                      | . antiadrenergics   |   | that co-occur in time with other signals   |
|  | telescopes   | RT                   | adrenergics   | Often u   | sed with gamma-ray detection systems   |
|  | towers   |                      |   | UF  | anticoincidence shields  |
|  | transmitters   | antiairo             | craft missiles  | RT  | background radiation   |
|  |  | GS                   | missiles  |   | coincidence circuits   |
|  | s aircraft   |                      | . antiaircraft missiles   |   | comparators  |
| USE  | AN-22 aircraft   |                      | BOMARC missiles   |   | counting circuits  |
|  |  |                      | BOMARC A missile  |   | ∞ detectors  |
| anthrac  |  |                      | DOWARO A MISSIE   | c   |  |
| 00   |  |                      | BOMARC B missile  | c   | discriminators   |
| GS   | organic compounds  |                      |   | c   | discriminators gamma ray spectrometers   |
| GS   | organic compounds<br>. cyclic compounds  |                      | BOMARC B missile  | c   | discriminators<br>gamma ray spectrometers<br>hodoscopes  |
| GS   | organic compounds<br>. cyclic compounds<br>cyclic hydrocarbons   |                      | BOMARC B missile Falcon missile   | c   | discriminators<br>gamma ray spectrometers<br>hodoscopes<br>particle telescopes   |
| GS   | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene  |                      | BOMARC B missile Falcon missile Mauler missile  | c   | discriminators<br>gamma ray spectrometers<br>hodoscopes<br>particle telescopes<br>proportional counters  |
| GS   | organic compounds . cyclic compounds . cyclic hydrocarbons . anthracene . hydrocarbons   |                      | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile  | c   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters   |
| GS   | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons   |                      | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile  | c   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters  |
|  | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons anthracene  |                      | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles   | c   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors   |
| GS<br>RT   | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons cyclic hydrocarbons anthracene anthraquinones   |                      | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile  | c   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters  |
|  | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons anthracene  |                      | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile  | c   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors   |
| RT   | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons anthracene anthraquinones phenanthrene  | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles  |   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors   |
|  | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons . cyclic hydrocarbons . anthracene anthraquinones phenanthrene  | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles   | anticoin  | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  |
| RT<br><b>anthrac</b><br>DEF  | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons anthracene anthraquinones phenanthrene  | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles   | anticoin  | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000)   |
| RT  anthrac  DEF in which  | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons . cyclic hydrocarbons anthracene anthraquinones phenanthrene ite Coal of the highest metamorphic rank,  | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles   | anticoin<br>(add  | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  |
| RT  anthrac  DEF in which percent  | organic compounds . cyclic compounds . cyclic hydrocarbons . anthracene . hydrocarbons . cyclic hydrocarbons anthracene anthraquinones phenanthrene  ite Coal of the highest metamorphic rank, in fixed-carbon content is between 92   | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles   | anticoin<br>(add<br>USE                                   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors   |
| RT  anthrac DEF in which percent matter-fi   | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  ite Coal of the highest metamorphic rank, in fixed-carbon content is between 92 and 98 percent (on a dry, mineral-  | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles   | anticoir<br>(add<br>USE<br>anticon                        | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  avulsants  |
| RT  anthrac DEF in which percent matter-fi a semin   | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthracene anthracunones phenanthrene  iite Coal of the highest metamorphic rank, n fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has  | RT                   | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles ramjet missiles ramjet missiles surface to air missiles   | anticoin<br>(add<br>USE                                   | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  avulsants drugs  |
| anthrac<br>DEF<br>in which<br>percent<br>matter-finate semini<br>ture. An<br>with a sl   | organic compounds . cyclic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  ite Coal of the highest metamorphic rank, in fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns hort blue flame, without smoke. Used for  |                      | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles ramjet missiles ramjet missiles surface to air missiles   | anticoin<br>(add<br>USE<br>anticon<br>GS                  | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields ed August 2000) anticoincidence detectors  avulsants drugs . anticonvulsants   |
| anthrac DEFINITION DEF | organic compounds . cyclic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  iite  Coal of the highest metamorphic rank, in fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns nort blue flame, without smoke. Used for al.  | antibio              | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles   | anticoir<br>(add<br>USE<br>anticon                        | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  avulsants drugs  |
| RT  anthrac DEF in which percent matter-fi a semin ture. An with a si hard coa UF  | organic compounds . cyclic compounds . cyclic dydrocarbons anthracene . hydrocarbons cyclic hydrocarbons cyclic hydrocarbons anthracene anthracunones phenanthrene  iite Coal of the highest metamorphic rank, n fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns nort blue flame, without smoke. Used for al. hard coal  | antibio              | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles tics drugs antibiotics actinomycin                                      | anticoin<br>(add<br>USE<br>anticon<br>GS<br>RT            | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields ed August 2000) anticoincidence detectors  avulsants drugs anticonvulsants hexamethonium   |
| anthrac DEFINITION DEF | organic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  iite  Coal of the highest metamorphic rank, n fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns nort blue flame, without smoke. Used for al.  hard coal fuels   | antibio              | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles  tics drugs antibiotics actinomycin penicillin          | anticoin<br>(add<br>USE<br>anticon<br>GS<br>RT<br>anticyc | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  avulsants drugs anticonvulsants hexamethonium  |
| RT  anthrac DEF in which percent matter-fi a semin ture. An with a si hard coa UF  | organic compounds . cyclic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  ite  Coal of the highest metamorphic rank, in fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns hort blue flame, without smoke. Used for al.  hard coal fuels . chemical fuels                               | antibio              | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles tics drugs antibiotics actinomycin penicillin pleurotin                 | anticoin<br>(add<br>USE<br>anticon<br>GS<br>RT            | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  anticoincidence detectors  anticonvulsants hexamethonium   |
| RT  anthrac DEF in which percent matter-fi a semin ture. An with a si hard coa UF  | organic compounds . cyclic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  ite Coal of the highest metamorphic rank, in fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns nort blue flame, without smoke. Used for al.  hard coal fuels . chemical fuels . hydrocarbon fuels            | antibio              | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Nike-Hercules missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles tics drugs antibiotics actinomycin pelurotin streptomycin        | anticoin<br>(add<br>USE<br>anticon<br>GS<br>RT<br>anticyc | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  articoincidence detectors  articoincidence detectors  articoincidence detectors  louisants drugs anticonvulsants hexamethonium  clones air masses atmospheric pressure |
| anthrac<br>DEF<br>in which<br>percent<br>matter-fi<br>a semin<br>ture. An<br>with a si<br>hard coo.<br>UF  | organic compounds . cyclic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  iite Coal of the highest metamorphic rank, fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thractie ignites with difficulty and burns hort blue flame, without smoke. Used for al.  hard coal fuels . chemical fuels . hydrocarbon fuels fossil fuels | <b>antibio</b><br>GS | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Redeye missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles  tics drugs actinomycin penicillin pleurotin streptomycin tetracyclines | anticoin<br>(add<br>USE<br>anticon<br>GS<br>RT<br>anticyc | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  articonvulsants drugs anticonvulsants hexamethonium  allones air masses atmospheric pressure cyclones  |
| anthrac<br>DEF<br>in which<br>percent<br>matter-fi<br>a semin<br>ture. An<br>with a si<br>hard coo.<br>UF  | organic compounds . cyclic compounds . cyclic compounds . cyclic hydrocarbons anthracene . hydrocarbons cyclic hydrocarbons anthracene anthraquinones phenanthrene  ite Coal of the highest metamorphic rank, in fixed-carbon content is between 92 and 98 percent (on a dry, mineral- ree basis). It is hard and black, and has netallic luster and semiconchoidal frac- thracite ignites with difficulty and burns nort blue flame, without smoke. Used for al.  hard coal fuels . chemical fuels . hydrocarbon fuels            | antibio              | BOMARC B missile Falcon missile Mauler missile Nike-Ajax missile Nike-Hercules missile Nike-Hercules missile SIAM missiles Sidewinder missiles tartar missile terrier missile air to air missiles antimissile missiles Nike missiles ramjet missiles surface to air missiles tics drugs antibiotics actinomycin pelurotin streptomycin        | anticoin<br>(add<br>USE<br>anticon<br>GS<br>RT<br>anticyc | discriminators gamma ray spectrometers hodoscopes particle telescopes proportional counters radiation counters scintillation counters signal detectors trigger circuits  acidence shields led August 2000) anticoincidence detectors  articonvulsants hexamethonium  clones air masses atmospheric pressure  |

synoptic meteorology microgravity . . Mauler missile . . Nike-Zeus missile Antigua and Barbuda antidetection technology Spartan missile (added November 2001) (added February 1989) . Sprint missile landforms USE stealth technology antiaircraft missiles . islands ballistic missiles . . West Indies antidiuretics infrared tracking . Antigua and Barbuda GS drugs missile defense antidiuretics nations Nike missiles Antigua and Barbuda urine Nike X systems RT Caribbean region Sentinel system antidotes SIAM missiles GS drugs antihistaminics space weapons antidotes GS drugs surface to air missiles . antihistaminics RT inhibitors . . dimenhydrinate antimisting fuels antiemetics and antinauseants . . diphenyl hydantoin DEF Fuels which have an additive to reduce promethazine GS drugs misting and thus create safer fuels. antiemetics and antinauseants RT decongestants fuels RT nausea histamines . chemical fuels . . liquid fuels antihypertensive agents antiferroelectricity antimisting fuels electrical properties GS GS drugs additives antihypertensive agents antiferroelectricity aircraft fuels RT dielectric properties reserpine flame retardants ferroelectricity jet engine fuels antiicing additives hysteresis kerosene additives GS ∞ polarization antiicing additives antimonides antifreezes antiferromagnetism GS antimony compounds deicers magnetic properties antimonides deicing antiferromagnetism . . aluminum antimonides fuel contamination ferromagnetism . . cadmium antimonides ice prevention hysteresis . . cesium antimonides inhibitors Ising model . . gallium antimonides propellant additives magnetic switching . . germanium antimonides magnons retardants . . indium antimonides neel temperature . . zinc antimonides antiinfectives and antibacterials paramagnetism GS drugs antimony antiinfectives and antibacterials antifouling chemical elements GS antibiotics DEF Measures taken to prevent corrosion . metalloids antiseptics or the accumulation of organic or other residues . . antimony bactericides or growths on operating machanisms, especially RT metals contamination in underwater environments. fungicides GS fouling antimony alloys . antifouling GS alloys antiknock additives RT ∞ agents . antimony alloys GS additives cleaning . babbitt metal . antiknock additives contamination bismuth alloys automobile fuels corrosion prevention mulberry (alloy) gasoline inhibitors ∞ octane sterilization antimony compounds octanes antimony compounds retardants antifreezes . antimonides additives . . aluminum antimonides GS antimatter antifreezes . . cadmium antimonides antimatter GS RT antiicing additives . . cesium antimonides . antiparticles freezing . . gallium antimonides . . antineutrinos . . germanium antimonides . . antinucleons antifriction bearings . . indium antimonides . . antiprotons GS bearings . . zinc antimonides . positrons . antifriction bearings antimony fluorides Alpha Magnetic Spectrometer . . ball bearings RT ∞ chemical compounds degenerate matter . . roller bearings ∞ Group 5A compounds matter (physics) . . needle bearings ∞ metal compounds matter-antimatter propulsion RT friction reduction negative matter gas bearings antimony fluorides journal bearings GS antimony compounds antimissile defense rolling contact loads . antimony fluorides SN (PROTECTION AGAINST MISSILE thrust bearings halogen compounds ÀTTACK) air defense . fluorine compounds antigens . antimissile defense . . fluorides anaphylaxis . . antimony fluorides antiradiation missiles biocompatibility . halides civil defense immune systems ∞ defense . . fluorides immunoassay defense industry ... antimony fluorides immunology defense program military technology missile defense inoculum antimony isotopes physiological defenses GS chemical elements . metalloids radioimmunoassay missiles Rhesus factor optical countermeasures . . antimony isotopes vaccines Safeguard system . nuclides Sentinel system . . isotopes space surveillance (ground based) . . antimony isotopes DEF A hypothetical effect that would arise metals space surveillance (spaceborne) from cancellation by some energy field of the effect of the gravitational field of the earth or . antimony isotopes antimissile missiles

GS

missiles

antimissile missiles

antineutrinos

GS antimatter

other body.

RT gravitation

|                 | . antiparticles  |                | . antiphase boundaries  |          | missile defense  |
|-----------------|--|----------------|---|----------|--|
|                 | antineutrinos  | RT             | binary alloys   |          | remote control   |
|                 | particles  |                | crystal dislocations  | ontirofl | action coatings  |
|                 | . elementary particles   |                | crystal lattices  |          | ection coatings  This dialoctric or motallic films applied                         |
|                 | antiparticles antineutrinos  |                | crystal structure   |          | Thin dielectric or metallic films applied ptical surface to reduce the reflectance |
|                 | fermions   |                | grain boundaries interfacial energy                             |          | ereby increase the transmittance. Note:  |
|                 | leptons  |                | internacial energy  |          | al value of the reactive index of a single   |
|                 | antineutrinos  |                | microstructure  |          | film is the square root of the product of  |
|                 | . nuclear particles  |                | order-disorder transformations                                  |          | active indices on either side of the film,   |
|                 | . antiparticles  |                | solid solutions   |          | al optical thickness being one quarter of a  |
|                 | antineutrinos  |                | solid-solid interfaces  | waveler  | ngth.  |
| RT              | charged particles  |                | superlattices   | GS       | coatings   |
|                 | neutrinos  |                | ternary alloys  |          | antireflection coatings  |
|                 |  |                |   | RT       | lens design  |
| antinod         |  |                | se domains  |          | optical coatings   |
|                 | Either of the two points on an orbit line in the orbit plane, perpendicular to |                | led March 1998)   |          | optical reflection   |
|                 | of nodes and passing through the focus   | USE            | antiphase boundaries  |          | optical thickness<br>solar cells   |
|                 | ts the orbit. Also a point, line, or surface                                   | antipo         | les   |          | Solai Celis  |
|                 | iding wave where some characteristic of  |                | Anything exactly opposite to some-                              | antisep  | tics   |
|                 | e field has maximum amplitude.   | thing e        | se. Particularly, that point on the Earth                       | UF       | disinfectants  |
| RT              | nodes (standing waves)   |                | g. from a given place.  | RT       | acriflavine  |
|                 | rarefaction  | RT             | apsides   |          | antiinfectives and antibacterials  |
|                 | resonant frequencies   |                | ionospheric propagation   |          | bactericides   |
|                 | standing waves   |                | propagation modes   |          | chemical sterilization   |
|                 | vibration  |                | radio transmission  |          | chemotherapy   |
|                 | wavelengths  |                | zenith  |          | cleaning   |
| antinuc         | loons  | antipro        | tone  |          | decontamination  |
| GS              | antimatter   | GS             | antimatter  |          | environmental control  |
| 00              | . antiparticles  | 00             | . antiparticles   |          | fumigation infectious diseases   |
|                 | antinucleons   |                | antiprotons   |          | purification   |
|                 | particles  |                | particles   |          | sterilization  |
|                 | . elementary particles   |                | . charged particles   |          | 5.672467.  |
|                 | antiparticles  |                | antiprotons   | antiser  | ums  |
|                 | antinucleons   |                | . elementary particles  | RT       | antibodies   |
|                 | . nuclear particles  |                | antiparticles   |          | immunology   |
|                 | antiparticles  |                | antiprotons   |          | serums   |
|                 | antinucleons   |                | nuclear particles   |          | vaccines   |
| RT              | nucleons   |                | antiparticles   |          |  |
| ontiovia        | lanta  | DT             | antiprotons   |          | p missiles   |
| antioxic<br>DEF | Compounding ingredients used to re-  | RT             | proton-antiproton interactions                                  | GS       | missiles   |
|                 | erioration caused by oxidation.  |                | protons   | RT       | . antiship missiles cruise missiles  |
| GS              | additives  | antiqui        | ties  | IXI      | sea launching  |
| 00              | . antioxidants   | DEF            | Man-made objects or surviving parts or                          |          | ships  |
| RT ∝            | agents   |                | nts from the past.  |          | submarines   |
|                 | corrosion prevention   | RT             | artifacts   |          | weapon systems   |
|                 | corrosion resistance   |                | tools   |          | . ,  |
|                 | inhibitors   |                | weapons   |          | p warfare  |
|                 | melatonin  |                |   | GS       | warfare  |
|                 | preservatives  |                | ar coatings   | DT       | . antiship warfare   |
|                 | propellant additives   | GS             | absorbers (materials)   | RT       | missiles   |
|                 | retardants   |                | . radar absorbers   |          | sea launching  |
|                 | stabilizers (agents)   |                | antiradar coatings  |          | ships<br>submarines  |
| antipart        | icles  |                | . antiradar coatings  |          | warheads   |
| DEF             | Particles with a charge of opposite  |                | countermeasures   |          | weapons  |
|                 | the same particles in normal matter.   |                | . electronic countermeasures                                    |          |  |
| ĞS              | antimatter   |                | antiradar coatings  | antisite | defects  |
|                 | . antiparticles  | RT             | electronic warfare  |          | ed July 1997)  |
|                 | antineutrinos  |                | inorganic coatings  |          | Point defects occurring in crystalline   |
|                 | antinucleons   |                | metal coatings  |          | inds where an atom of one atomic spe-  |
|                 | antiprotons  |                | plastic coatings  |          | cupies an atomic site that is allocated to   |
|                 | positrons  | •              | ∞ ram   |          | ent atomic species (e.g., in GaAs, an  |
|                 | particles  |                | stealth technology  |          | atom may sit on a site allocated to a  |
|                 | . elementary particles   | antirad        | istion druge  |          | atom). If the nearest neighbor sites are   |
|                 | antiparticles antineutrinos  | UF             | iation drugs radioprotective agents                             |          | d with the correct species for their sites n arsenic antisite atom surrounded by   |
|                 | antinucleons   | GS             | drugs   |          | atoms), the antisite atom is then bonded   |
|                 | antiprotons  | 00             | . antiradiation drugs   |          | like atoms (rather than four Ga atoms).  |
|                 | positrons  |                | cysteamine  |          | configuration is not electrically neutral,   |
|                 | . nuclear particles  | RT             | nuclear medicine  |          | s as a double donor. An "antisite pair"  |
|                 | antiparticles  |                | pharmacology  | occurs   | if two adjacent atoms have simply been   |
|                 | antineutrinos  |                | radiation protection  | intercha | anged.   |
|                 | antinucleons   |                | radiation sickness  | GS       | defects  |
|                 | antiprotons  |                | radiobiology  |          | . crystal defects  |
|                 | positrons  |                | radiopathology  |          | point defects  |
| RT              | annihilation reactions   | and! !         | iation missiles   | DT       | antisite defects   |
|                 | charged particles  | antirad<br>DEF | iation missiles   | RT       | donor materials  |
|                 | hyperons Pomeranchuk theorem   |                | Missiles that attack radiating targets radar transmitters, etc. |          | gallium arsenides<br>interstitials   |
|                 | positron annihilation  | GS             | missiles  |          | semiconductors (materials)   |
|                 | position annimiation   | 00             | . antiradiation missiles  |          | vacancies (crystal defects)  |
| antipha         | se boundaries  | RT             | air defense   |          |  |
|                 | ed March 1998)   |                | antimissile defense   | antiski  | d devices  |
| UF              | antiphase domains  |                | countermeasures   | RT       | aircraft brakes  |
|                 | APB (materials)  |                | digital radar systems   |          | arresting gear   |
| GS              | boundaries   |                | military technology   |          | automobiles  |

|               | brakes (for arresting motion)            |                      | tools                                 |          | synthetic arrays  |
|---------------|--|----------------------|---------------------------------------|----------|---|
| 0             | o devices                                | anviotu              |                                       |          | vents   |
|               | landing aids safety devices              | anxiety<br>DEF       | Nervous or fear reaction to a percep- |          | VSAT (network)<br>windows (apertures)   |
|               | trucks                                   | tion of c            |                                       |          | windows (apertures)   |
|               | wheel brakes                             | RT                   | detachment                            | apes     |   |
|               |  |                      | fear                                  | GS       | animals   |
|               | c devices                                |                      | fear of flying                        |          | . vertebrates   |
| USE           | static dischargers                       |                      | phobias<br>stress (biology)           |          | mammals<br>primates   |
| 4!            |  |                      | Taylor manifest anxiety scale         |          | apes  |
| antisub<br>GS | marine warfare warfare                   |                      | Taylor manifest anxioty oddio         |          | chimpanzees   |
| 00            | . antisubmarine warfare                  | AO-1 ai              |                                       |          | ·   |
| RT            | ASROC engine                             | USE                  | OV-1 aircraft                         | apexes   |   |
|               | military technology                      | AOIPS                |                                       | UF<br>RT | vertices<br>altitude  |
|               | sonobuoys                                | USE                  | Atmospheric & Oceanographic           | KI       | aphelions   |
|               | submarines                               | 002                  | Inform Sys                            |          | apogees   |
|               | torpedoes underwater explosions          |                      | •                                     |          | maxima  |
|               | underwater trajectories                  | aorta                |                                       |          | orbits  |
|               | andomator trajectories                   | GS                   | anatomy                               | ۰        | ∘ peaks   |
| antisub       | marine warfare aircraft                  |                      | . circulatory system                  |          | plateaus  |
| GS            | antisubmarine warfare aircraft           |                      | cardiovascular system blood vessels   |          | trajectories<br>zenith  |
|               | . Breguet 1150 aircraft                  |                      | arteries                              |          | Zeriitii  |
|               | . CL-84 aircraft                         |                      | aorta                                 | aphelio  | ns  |
|               | . P-3 aircraft<br>. S-2 aircraft         | RT                   | heart                                 | GS       | apsides   |
|               | . S-3 aircraft                           | 4000                 |                                       |          | . aphelions   |
|               | . SH-3 helicopter                        | AOSO<br>UF           | Advanced Orbiting Solar Observatory   | RT       | apexes  |
|               | . SH-4 helicopter                        | GS                   | artificial satellites                 |          | elliptical orbits orbits  |
| RT ∘          | o aircraft                               | 00                   | . geophysical satellites              |          | perihelions   |
|               | attack aircraft                          |                      | 080                                   |          | solar orbits  |
|               | bomber aircraft                          |                      | AOSO                                  |          |   |
|               | drone aircraft<br>H-25 helicopter        |                      | scientific satellites                 |          | mputers)  |
| 0             | o military aircraft                      |                      | astronomical satellites               |          | ed June 2003)   |
|               | observation aircraft                     |                      | OSO<br><b>AOSO</b>                    | USE      | application programming interface   |
|               | P-531 helicopter                         |                      | observatories                         | APL (p   | rogramming language)  |
|               | reconnaissance aircraft                  |                      | . astronomical observatories          |          | "A Programming Language" is a high  |
|               | S-61 helicopter                          |                      | astronomical satellites               |          | teractive computer language primaril  |
|               | submersible aircraft V/STOL aircraft     |                      | OSO                                   |          | d for mathematical applications. It was   |
|               | water takeoff and landing aircraft       |                      | AOSO                                  |          | ed by Kenneth Iverson in 1962. It is  |
|               | water takeen and landing alleran         |                      | solar observatories OSO               |          | erized by extensive operators and arra<br>g capability. NASA Goddard was one c          |
| antisym       | nmetry                                   |                      | AOSO                                  |          | users and was instrumental in introduc  |
| RŤ            | asymmetry                                |                      | . geophysical observatories           |          | to the computer community.  |
|               | chirality                                |                      | . OSO                                 | GS       | languages   |
|               | symmetry                                 |                      | AOSO                                  |          | . programming languages   |
| an4:4an       | , minailea                               | RT                   | sun                                   | DT       | APL (programming language)  |
|               | k missiles<br>missiles                   | Anache               | rocket vehicle                        | RT       | computer programming  |
| 93            | . surface to surface missiles            |                      | rocket vehicles                       | apnea    |   |
|               | antitank missiles                        |                      | . sounding rockets                    |          | respiration   |
|               | Shillelagh missiles                      |                      | Apache rocket vehicle                 |          | ·   |
|               | tow missiles                             | RT                   | sondes                                | apodiza  |   |
|               |  |                      |                                       |          | ed October 2002)  |
|               | v aircraft                               | apatites<br>USE      |                                       |          | The elimination or smoothing of sharp   |
| GS            | Antonov aircraft                         | USE                  | calcium phosphates minerals           |          | nuities in an image, electrical signal, c<br>natical function; as in the modification o |
|               | . AN-2 aircraft<br>. AN-22 aircraft      |                      | militaria                             |          | sign to reduce diffraction fringes, or the  |
|               | . AN-24 aircraft                         | APB (m               | aterials)                             |          | natical processing of interferograms to   |
| RT ∘          | ∘ aircraft                               |                      | ed March 1998)                        |          | s sidelobes.  |
|               |  | USE                  | antiphase boundaries                  | RT       | apertures   |
| Antonov       | AN-22 aircraft                           |                      | ia formationa                         |          | Bragg gratings  |
| USE           | AN-22 aircraft                           | GS                   | ic functions analysis (mathematics)   |          | gratings (spectra) imaging techniques   |
|               |  | 00                   | . aperiodic functions                 |          | optical filters   |
|               | AN-24 aircraft                           |                      | functions (mathematics)               |          | sidelobe reduction  |
| USE           | AN-24 aircraft                           |                      | . aperiodic functions                 |          | wave diffraction  |
|               |  | RT                   | complex variables                     |          |   |
| anvil cl      |  |                      | real variables                        |          | boost motors  |
| GS            | clouds (meteorology) . convection clouds |                      |                                       | UF       |   |
|               | cumulonimbus clouds                      | <b>apertur</b><br>GS |                                       | GS       | apogee kick motors  |
|               | anvil clouds                             | GS                   | openings . apertures                  | GS       | engines . rocket engines  |
|               | cumulus clouds                           |                      | irises (mechanical apertures)         |          | . booster rocket engines  |
| _ :           | anvil clouds                             |                      | . numerical aperture                  |          | apogee boost motors   |
| RT            | atmospheric moisture                     |                      | synthetic apertures                   |          | solid propellant rocket engines   |
|               | climatology                              | RT                   | apodization                           |          | apogee boost motors   |
|               | cloud cover                              |                      | cavities                              | RT •     | ∘ boosters  |
|               | fog<br>meteorology                       |                      | doors                                 |          | motors  |
|               | meteorology<br>nephanalysis              |                      | gates (openings)                      | 200000   | kick motors   |
|               | precipitation (meteorology)              |                      | infrared windows<br>louvers           |          | kick motors apogee boost motors   |
|               | thunderstorms                            |                      | orifices                              | UUL      | apogee boost motors   |
|               | weather                                  |                      | outlets                               | apogee   | s   |
|               |  |                      | pinhole cameras                       |          | Those orbital points farthest from the  |
| anvils        |  |                      | ports (openings)                      | Earth, w | hen the Earth is the center of attraction   |
| RT            | compressing                              |                      | slits                                 | GS       | apsides   |

. apogees lunar launch lunar landing apexes Lunar Module lunar launch Earth orbits manned spacecraft Lunar Module elliptical orbits moon-Earth trajectories manned spacecraft orbits moon-Earth trajectories Apollo 11 flight perigees GS space flight Apollo 17 flight Apollo 5 flight . manned space flight GS space flight GS space flight . . Apollo flights . manned space flight . manned space flight . Apollo 11 flight . . Apollo flights . . Apollo flights Earth-Moon trajectories . Apollo 17 flight . Apollo 5 flight lunar exploration RT Earth-Moon trajectories Earth-Moon trajectories Lunar Exploration System for Apollo lunar exploration lunar exploration lunar flight Lunar Exploration System for Apollo Lunar Exploration System for Apollo lunar landing lunar flight lunar flight lunar launch lunar landing Lunar Module lunar landing lunar launch lunar launch manned spacecraft Lunar Module moon-Earth trajectories Lunar Module manned spacecraft lunar spacecraft moon-Earth trajectories Apollo 12 flight moon-Earth trajectories GS space flight Apollo applications program Apollo 6 flight . manned space flight GS programs . . Apollo flights GS space flight . NASA programs . . NASA space programs . manned space flight . . Apollo flights . . . Apollo applications program Earth-Moon trajectories ... Apollo 6 flight lunar exploration . space programs Earth-Moon trajectories Lunar Exploration System for Apollo . . NASA space programs lunar exploration . . Apollo applications program lunar flight Lunar Exploration System for Apollo lunar landing AAP 1 mission lunar flight AAP 2 mission lunar launch lunar landing Lunar Module AAP 3 mission AAP 4 mission lunar launch manned spacecraft Lunar Module moon-Earth trajectories airlock modules Earth Resources Program lunar spacecraft Apollo 13 flight moon-Earth trajectories Earth Resources Survey Program GS space flight Saturn 1 workshop Apollo 7 flight manned space flight Saturn 5 workshop GS space flight . . Apollo flights Saturn project . . . Apollo 13 flight
Earth-Moon trajectories . manned space flight . . Apollo flights Saturn workshops Skylab program lunar exploration
Lunar Exploration System for Apollo Apollo 7 flight Earth-Moon trajectories Apollo asteroids Earth grazing asteroids in orbits belunar exploration lunar flight Lunar Exploration System for Apollo lunar landing tween Mars and Jupiter, and crossing the lunar flight Earth's orbit. This group contains 19 known lunar launch lunar landing Lunar Module asteroids. GS celestial bodies lunar launch manned spacecraft Lunar Module moon-Earth trajectories . asteroids manned spacecraft . Apollo asteroids moon-Earth trajectories Apollo 14 flight asteroid belts GS space flight astronomy . manned space flight Apollo 8 flight Chiron GS space flight . . Apollo flights Earth orbits Apollo 14 flight . manned space flight Jupiter (planet) . . Apollo flights Earth-Moon trajectories Mars (planet) . Apollo 8 flight lunar exploration planetary orbits Earth-Moon trajectories Lunar Exploration System for Apollo solar system lunar exploration lunar flight Lunar Exploration System for Apollo lunar landing Apollo extension system lunar flight lunar launch exobiology lunar landing Lunar Module extravehicular activity lunar launch manned spacecraft lunar landing modules Lunar Module moon-Earth trajectories manned space flight manned spacecraft NASA programs moon-Earth trajectories Apollo 15 flight orbital workshops GS space flight ∞ systems Apollo 9 flight . manned space flight GS space flight . . Apollo flights Apollo flights . manned space flight . Apollo 15 flight GS space flight . . Apollo flights Earth-Moon trajectories . manned space flight ... Apollo 9 flight ... Apollo flights lunar exploration Earth-Moon trajectories Lunar Exploration System for Apollo Apollo 5 flight lunar exploration lunar flight . . . Apollo 6 flight Lunar Exploration System for Apollo Apollo 7 flight lunar landing lunar flight lunar launch Apollo 8 flight lunar landing Lunar Module Apollo 9 flight Apollo 10 flight lunar launch manned spacecraft Lunar Module moon-Earth trajectories Apollo 11 flight SIM Apollo 12 flight Apollo 10 flight Apollo 13 flight Apollo 16 flight GS space flight Apollo 14 flight

GS space flight

. manned space flight

. . Apollo flights

lunar exploration

lunar flight

Earth-Moon trajectories

Lunar Exploration System for Apollo

. manned space flight

Apollo 10 flight

Lunar Exploration System for Apollo

Earth-Moon trajectories

. . Apollo flights

lunar exploration

lunar flight

lunar landing

### Apollo lunar experiment module

Apollo 15 flight

Apollo 16 flight

Apollo 17 flight

SS lunar spacecraft
. Apollo spacecraft

RT Skylab program

. . Apollo lunar experiment module soft landing spacecraft RT North America . lunar landing modules . . Lunar Module apparatus Apollo short stack ... Apollo lunar experiment USE equipment RT spacecraft configurations module appearance maneuverable spacecraft Apollo Soyuz test project RT imagery . Apollo spacecraft ASTP quality Apollo lunar experiment module GS programs visibility manned spacecraft projects . Apollo spacecraft . Apollo Soyuz test project appendages Apollo lunar experiment module RT international cooperation GS appendages . Lunar Module international relations . arm (anatomy) . Apollo lunar experiment module manned spacecraft . . elbow (anatomy) modules rendezvous . forearm . spacecraft modules Soyuz spacecraft . hand (anatomy) .. landing modules space flight . fingers ... lunar landing modules space missions . leg (anatomy) . . . . Lunar Module space programs . . feet (anatomy) Apollo lunar experiment . . knee (anatomy) space rendezvous module spacecrew transfer . thigh reentry vehicles U.S.S.R. space program anatomy . recoverable spacecraft human body . . Apollo spacecraft limbs (anatomy) Apollo spacecraft ... Apollo lunar experiment lunar spacecraft module appendix (anatomy) . Apollo spacecraft soft landing spacecraft anatomy GS . . Apollo lunar experiment module . Apollo spacecraft . digestive system maneuverable spacecraft Apollo lunar experiment module . . gastrointestinal system Apollo spacecraft . landing modules . appendix (anatomy) . Apollo lunar experiment module . . lunar landing modules RT intestines manned spacecraft ... Lunar Module Apollo spacecraft .... Apollo lunar experiment application . . Apollo lunar experiment module module ÚSE utilization reentry vehicles spacecraft components . recoverable spacecraft . spacecraft modules application programming interface . Apollo spacecraft . . landing modules (added June 2003) . . Apollo lunar experiment module . . . lunar landing modules DEF An interface between a software or soft landing spacecraft . . . . Lunar Module hardware system and an application program . Apollo spacecraft ..... Apollo lunar experiment which allows the application program to communicate with, and to access services from the . Apollo lunar experiment module module command modules lunar exploration software or hardware system landing modules Lunar Module lunar landing API (computers) computer systems programs Lunar Module 5 Apollo Lunar Surface Experiments Package Lunar Module 7 ALSEP application specific integrated circuits manned orbital laboratories GS packages (added May 1989) UF ASIC Saturn project . instrument packages service modules . Apollo Lunar Surface custom integrated circuits Skylab program **Experiments Package** circuits unified S band RT ∞ instruments . integrated circuits .. application specific integrated lunar exploration Apollo telescope mount lunar retroreflectors circuits GS telescopes pavloads chips (electronics) manned orbital telescopes ∞ surfaces large scale integration . Apollo telescope mount systems-on-a-chip RT Skylab program very large scale integration Apollo project GS programs **Applications Explorer Satellites** apoptosis . lunar programs (added October 2000) GS artificial satellites Apollo project One of the two mechanisms by which . scientific satellites . NASA programs cell death occurs (the other being the pathological process of NECROSIS). Apoptosis is the . NASA space programs . . Explorer satellites **Applications Explorer Satellites** . Apollo project mechanism responsible for the physiological Heat Capacity Mapping Mission . projects deletion of cells and appears to be intrinsically Apollo project programmed. It is characterized by distinctive applications of mathematics space programs (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) morphologic changes in the nucleus and cyto-. . NASA space programs plasm, chromatin cleavage at regularly spaced RT AAP 1 mission AAP 2 mission sites, and the endonucleolytic cleavage of gemathematical analysis nomic DNA at internucleosomal sites. This mode analysis (mathematics) of cell death serves as a balance to mitosis in AAP 3 mission approximation regulating the size of animal tissues and in AAP 4 mission combinatorial analysis mediating pathologic processes associated with Advanced Range Instrumentation computation tumor growth. dimensional analysis programmed cell death command service modules dynamic programming physiological effects GS LSSM econometrics apoptosis lunar exploration error analysis biological effects Lunar Exploration System for Apollo finite element method cells (biology) lunar mobile laboratories fractals cytology lunar probes functions (mathematics) death manned spacecraft information theory deoxyribonucleic acid Marquardt R4D engine Kalman-Schmidt filtering Mercury project Saturn 1 workshop necrosis linear programming radiation effects mathematical models Saturn 5 workshop nonlinear programming

Appalachian Mountains (North America)

America)

. Appalachian Mountains (North

landforms

. mountains

numerical analysis

operational calculus

operations research

optimization

parameterization

Saturn launch vehicles

Saturn workshops

site data processors

Skylab program

SIM

probability theory measuring instruments . apogees statistical analysis indicating instruments . perigees stochastic processes . approach indicators . perihelions . perilunes time series analysis RT air traffic control altimeters angles (geometry) applications programs (computers) blind landing antipodes DEF Software designed to fulfill specific needs of a user; for example, software for glide paths elliptical orbits instrument approach orbital elements navigation, payroll, or process control. instrument landing systems orbital mechanics GS computer programs microwave scanning beam landing . applications programs APT (picture transmission) system (computers) navigation aids USË automatic picture transmission .. NASTRAN radar approach control . . spreadsheets solar compasses . web services speed indicators GS abilities aptitude computers learning software development tools appropriations budgeting personnel selection Applications Technology Satellites cost estimates USE ATS federal budgets Aqua spacecraft (added May 2005) grants DEF Second in a series of EOS (Earth approach approximation Observing System) spacecraft developed to adapproach airborne radar approach approximation methods vance the understanding of the ways that the instrument approach nominal values Earth's lands, oceans, air, ice, and life function air traffic control truncation (mathematics) as a total environmental system. Aqua studies aircraft approach spacing analysis (mathematics) the Earth's water cycle, including evaporation arrivals . numerical analysis from the oceans, water vapor in the atmosphere, . . approximation clouds, precipitation, soil moisture, sea ice, land descent flight paths . . . Born approximation ice, and snow cover on the land and ice. The . . . Born-Oppenheimer approximation spacecraft carries six instruments: the Atmoflight plans ground based control Chebyshev approximation spheric Infrared Sounder (AIRS), the Advanced Microwave Sounding Unit (AMSU-A), the Huguidance (motion) . . . Eddington approximation ... essentially non-oscillatory midity Sounder for Brazil (HSB), the Advanced landing Microwave Scanning Radiometer for EOS (AMSR-E), the Moderate Resolution Imaging Spectroradiometer (MODIS), and Clouds and the Earth's Radiant Energy System (CERES).

UF EOS PM (satellite) landing aids schemes passageways touchdown . . . finite difference theory . . . . finite difference time domain method approach and landing tests (STS) finite element method . Hartree approximation . least squares method artificial satellites DEF A series of flight maneuvers involving the Space Shuttle. . scientific satellites . . Aqua spacecraft Earth Observing System (EOS) evaluation mean square values Milne method horizontal spacecraft landing landing multigrid methods Newton methods Aqua spacecraft manned spacecraft space shuttles space transportation system spacecraft landing Aura spacecraft
CALIPSO (Pathfinder satellite)
CERES (experiment) Newton-Raphson method boundary element method discretization (mathematics) CloudSat ∞ tests numerical differentiation data products touchdown Oseen approximation Earth observations (from space) Pade approximation MODIS (radiometry) approach control particle in cell technique remote sensing approach control

DEF The control process which delivers aircraft to the final approach course or landing system properly spaced for their landing.

GS approach control

. radar approach control

RT air traffic control Pohlhausen method Terra spacecraft predictor-corrector methods Rayleigh-Ritz method Aquarid meteoroids relaxation method (mathematics) GS celestial bodies Reynolds averaging . meteoroid showers Ritz averaging method . . Aquarid meteoroids aircraft approach spacing Schwartz method . meteoroids aircraft communication Sommerfeld approximation Aquarid meteoroids aircraft guidance TVD schemes RT Orionid meteoroids aircraft maneuvers . . . upwind schemes (mathematics) ... vortex in cell technique automated en route ATC aquatic plants collision avoidance ... Trefftz method DEF Plants growing in or on water. ∞ control RT ∞ applications of mathematics plants (botany) flight paths censored data (mathematics) aquatic plants glide paths difference equations . phytoplankton ground based control aquiculture ∞ equations instrument approach hydroponics form factors instrument flight rules marine biology Glauber theory Godunov method ∞ methodology instrument landing systems aqueous solutions landing aids minimax technique numerical stability landing radar GS mixtures microwave landing systems . solutions night flights (aircraft) aqueous solutions problem solving runway lights hydrates ∞ relationships tracking (position) solvation spline functions traffic control static models visual control aquiculture statistical analysis The cultivation (breeding, raising, and harvesting) of fish, mollusks, shellfish, and/or approach indicators approximation methods other aquatic life as sources of food. GS aircraft instruments USE approximation agriculture approach indicators GS aquiculture display devices apsidal angles approach indicators apsides aquatic plants USF

flight instruments

landing aids

approach indicators

. . approach indicators

. landing instruments

apsides

UF

GS

apsidal angles

apsides

aphelions

fisheries

hydroponics

marine biology

marine environments

fishes

marine resources ... Kevlar (trademark) searchlights marine technology . synthetic fibers xenon lamps . . aramid fibers tidal flats . . Kevlar (trademark) arc melting aramid fiber composites GS phase transformations . melting aquifers composite materials Bodies of rock that contain sufficient epoxy matrix composites . arc melting saturated permeable material to conduct ground fiber composites RT drop transfer water and to yield economically significant quanfiber orientation electroslag refining tities of ground water to wells and springs. vacuum melting fiber strength resources zone melting lay-up . Earth resources plastics . . water resources arc spraying polyamide resins . . aquifers plasma arc spraying reinforced plastics fresh water reinforcing materials GS spraying gravels arc spraying resin matrix composites ground water metal spraying hydrogeology arc chambers arc welding hydrology RT ∞ chambers hydrothermal systems GS welding electric arcs . fusion welding lakes plasma generators . . electric welding limnology thrust chambers ... arc welding oases . . . . gas tungsten arc welding permeability arc clouds . . . plasma arc welding ponds GS clouds (meteorology) electron beam welding porosity . convection clouds . arc clouds heat affected zone rain cyclogenesis pressure welding sands fronts (meteorology) spot welds springs (water) mesoscale phenomena sputtering streams water meteorology Arcas rocket vehicles water tables observation aircraft satellite observation GS rocket vehicles wells thunderstorms . single stage rocket vehicles . . Arcas rocket vehicles Arabian commercial satellite USE Arcomsat arc discharges . sounding rockets . Arcas rocket vehicles electric current GS Arabian Sea radiosondes . electric discharges GS solid propellant rocket engines . arc discharges Arabian Sea ∞ vehicles RT electric arcs RT Indian Ocean archaebacteria arc generators Arabsat electric arcs DEF Organisms belonging to the taxonomic artificial satellites kingdom of the same name which are charac-GS electric generators Arabsat terized by distinct t- and r-RNAs, the absence of electrostatic generators international cooperation peptoglycan cell walls and their possible re-∞ generators Saudi Arabian space program placement by a proteinaceous coat, ether-linked ∞ induction lipids from phytanyl chains, and occurrence in inductors unusually harsh habitats, e.g., methane, halide plasma generators DEF A white, yellowish, or gray orthorhomand thermoacidic environments. These hardy spark gaps bic mineral, that contains calcium carbonate. spark plugs bacteria are significant in the study of the origin calcium compounds of life voltage generators . calcium carbonates microorganisms GS . aragonite . bacteria arc heating carbon compounds . archaebacteria Gerdien arc heaters UF . carbonates GS heating bacteriology . . calcium carbonates biological evolution arc heating . . aragonite paleobiology RT gas heating minerals image furnaces paleontology . aragonite plasma heating silicon compounds archaeology resistance heating . silicates anthropology Saha equations . aragonite cultural resources RT calcite arc jet engines fossils DEF Electrothermal rocket engines that proground penetrating radar aramid fiber composites duce thrust by expanding a hot gas in an appropaleomagnetism (added May 1992) priate nozzle to a high velocity. The propellant is (ARAMID FIBER UTILIZATION IN COMPOSITES. FOR PROPERTIES OF ARAMID FIBERS THEMSELVES USE 'ARAMID FIBERS'.) heated to a higher temperature than can be archaeomagnetism obtained through combustion processes result-(added April 1999) ing in higher exhaust velocities and better pro-USE paleomagnetism GS composite materials pellant efficiency. . fiber composites GS engines arches aramid fiber composites . rocket engines perforated shells aramid fibers . . electric rocket engines rigid structures epoxy matrix composites . . . electrothermal engines shells (structural forms) Kevlar (trademark) .... arc jet engines metal matrix composites . pulsed jet engines polyamide resins electric propulsion archipelagoes polymer matrix composites electrostatic engines DEF Seas or areas in seas that contain reinforced plastics magnetoplasmadynamic thrusters numerous islands; also the island groups themwhisker composites plasma engines selves resistojet engines Aleutian Islands (US) aramid fibers islands (added May 1992) arc lamps landforms (PROPERTIES OF ARAMID FIBERS THEMSELVES. FOR ARAMID FIBER UTILIZATION IN COMPOSITES USE 'ARAMID FIBER COMPOSITES'.) lighting equipment . luminaires GS seas Spitsbergen (Norway) Virgin Islands . arc lamps

carbon arcs

light sources

mercury arcs

architecture

RT acoustics

GS

fibers

. reinforcing fibers

. . aramid fibers

buildings . . . subarctic regions upper stage rocket engines construction . remote regions construction materials Ares 5 cargo launch vehicle . . Arctic regions . subarctic regions human factors engineering (added November 2006) DEF A two-stage heavy-lift launch vehicle Chukchi Sea illuminating climatology comprised of a first stage having two fiveplant design Starsite program segment reusable rocket boosters and a single geography structural design muskegs liquid-fueled core propulsion booster; and an ∞ structures nunataks upper stage (Earth Departure Stage) propelled by a J-2X main engine. ozone depletion architecture (computers) GS launch vehicles polar caps DEF The design of system and logic orga-. heavy lift launch vehicles Siberia nization and information flow relationships in a . . Ares 5 cargo launch vehicle tundra computer rather than the circuit and component rocket vehicles . multistage rocket vehicles area UF computer architecture Ares 5 cargo launch vehicle RT ∞ cross sections GS architecture (computers) Ares 1 launch vehicle geometry service oriented architecture booster rocket engines integral calculus Constellation program client server systems line of sight computer components J-2 engine ∞ sectors computer design ∞ surfaces concurrent processing ARES (spacecraft) volume Connection Machine Advanced Reconn Electric distributed memory Spacecraft area navigation distributed processing DEF A method of navigation that permits hypercube multiprocessors Argentina aircraft operation on any desired course within local area networks GS nations the coverage of station-referenced navigation Argentina logic circuits signals or within the limits of self-contained logic design Argentine space program system capability. massively parallel processors South America GS navigation memory (computers) . air navigation Argentine space program MIMD (computers) area navigation (added May 1989) modularity flight paths multidisciplinary design optimization programs ground tracks programmable logic devices space programs Argentine space program relational data bases Arend-Roland comet Argentina RISC processors celestial bodies SIMD (computers) Argo rocket vehicles . comets software development tools . Arend-Roland comet GS rocket vehicles supercomputers . multistage rocket vehicles systolic arrays solar system Argo rocket vehicles transputers Honest John rocket vehicle very large scale integration Ares 1 first stage Javelin rocket vehicle (added November 2006) Nike-Ajax missile Arcomsat A single, five-segment reusable solid solid propellant rocket engines Arabian commercial satellite UF rocket booster derived from the Space Shuttle sounding rockets GS artificial satellites Program's reusable solid rocket motor. ∞ vehicles . communication satellites launch vehicles . Arcomsat . Ares 1 launch vehicle Africa . Ares 1 first stage argon chemical elements international cooperation GS rocket vehicles . rare gases Saudi Arabian space program . multistage rocket vehicles . . argon Symphonie satellites . . Ares 1 launch vehicle . . argon isotopes synchronous satellites . . Ares 1 first stage gases RT booster rocket engines Arcon rocket vehicle . rare gases GS rocket vehicles . . argon Ares 1 launch vehicle argon isotopes . Arcon rocket vehicle (added November 2006) RT ∞ vehicles radiation trapping DEF An in-line, two-stage rocket configura-tion topped by the Orion crew exploration ve-∞ arcs argon isotopes ((USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) hicle, a service module, and a launch abort SN chemical elements system. . nuclides launch vehicles GS . . isotopes auroral arcs . Ares 1 launch vehicle ... argon isotopes curves (geometry) . . Ares 1 first stage . rare gases electric arcs Ares 1 upper stage . . argon island arcs rocket vehicles . . argon isotopes magnetic annular arc . multistage rocket vehicles gases plasma jets . . Ares 1 launch vehicle . rare gases red arcs . . . Ares 1 first stage . . argon . . Ares 1 upper stage ... argon isotopes Arctic environments Ares 5 cargo launch vehicle USE ice environments Constellation program argon lasers Crew Exploration Vehicle GS stimulated emission devices Arctic Ocean . lasers GS oceans **Arctic Ocean** Ares 1 upper stage argon lasers (added November 2006) chemical lasers Barents Sea Beaufort Sea (North America) Second stage of the Ares 1 launch continuous wave lasers vehicle incorporating a J-2X liquid oxygen/ Greenland gas masers hydrogen main engine. infrared lasers polynyas GS launch vehicles Mach-Zehnder interferometers Spitsbergen (Norway) . Ares 1 launch vehicle molecular oscillations . . Ares 1 upper stage Arctic regions pulsed lasers GS Northern Hemisphere rocket vehicles Q switched lasers Arctic regions . multistage rocket vehicles stimulated emission . subarctic regions . . Ares 1 launch vehicle ... Ares 1 upper stage Crew Exploration Vehicle argon plasma regions

J-2 engine

. polar regions

... Arctic regions

particles

. charged particles

GS

. . energetic particles . . . plasmas (physics) . . . . argon plasma . corpuscular radiation . . energetic particles . . . plasmas (physics) . . argon plasma RT helium plasma hydrogen plasma oxygen plasma

### argon-oxygen atmospheres

GS controlled atmospheres

. argon-oxygen atmospheres

aerospace environments

∞ atmospheres

∞ breathing

gas mixtures

portable life support systems underwater breathing apparatus

### Argos system

GS networks

. satellite networks

. Argos system

data collection platforms data transmission ocean data acquisitions systems satellite doppler positioning

### Argosy MK-1 aircraft

GS Hawker Siddeley aircraft

Argosy MK-1 aircraft jet aircraft

. turboprop aircraft

. . Argosy MK-1 aircraft monoplanes

. Argosy MK-1 aircraft transport aircraft

Argosy MK-1 aircraft

RT ∞ aircraft

arguments (mathematics)

**USE** independent variables

### Argus project

GS programs

projects

Argus project

thermonuclear explosions

### Ariane 4 launch vehicle

(added April 1995)

launch vehicles

. Ariane launch vehicle

. Ariane 4 launch vehicle

European space programs space commercialization

# Ariane 5 launch vehicle (added April 1995)

launch vehicles

. Ariane launch vehicle

. Ariane 5 launch vehicle Automated Transfer Vehicle European space programs space commercialization

### Ariane launch vehicle

GS launch vehicles

. Ariane launch vehicle

. . Ariane 4 launch vehicle

. Ariane 5 launch vehicle

Eldo launch vehicle Europa launch vehicles European Space Agency European space programs Geosari project

### arid lands

GS land

arid lands

barren land Death Valley (CA) desertification desertline

deserts drought

Earth environment

Earth resources

equatorial regions Gobi desert Mojave Desert (CA) Sahara Desert (Africa) steppes

#### **Ariel**

DFF A satellite of Uranus orbiting at a mean distance of 192,000 kilometers.

GS celestial bodies

wadis

. natural satellites

. . icy satellites

Ariel

. . Uranus satellites

. Ariel

RT Uranus (planet)

#### Ariel 1 satellite

UF S-51 satellite

artificial satellites

. Ariel satellites

. . Ariel 1 satellite

### Ariel 2 satellite

UF S-52 satellite

artificial satellites . Ariel satellites

.. Ariel 2 satellite

### Ariel 3 satellite

artificial satellites GS

. Ariel satellites

. . Ariel 3 satellite

### Ariel 4 satellite

GS artificial satellites

. Ariel satellites

. . Ariel 4 satellite

. scientific satellites

. . UK satellites . . Ariel 4 satellite

ionospheric electron density ionospheric sounding

### Ariel 5 satellite

DEF One in a series of artificial satellites launched for Britain by the United States.

GS artificial satellites

. Ariel satellites

. . Ariel 5 satellite

. scientific satellites

. . UK satellites

... Ariel 5 satellite

Ariel satellites
GS artificial satellites

. Ariel satellites

. . Ariel 1 satellite . . Ariel 2 satellite

. . Ariel 3 satellite

. . Ariel 4 satellite

. Ariel 5 satellite

geophysical satellites

Thor Delta launch vehicle

### Aries constellation

GS constellations

Aries constellation

celestial bodies celestial sphere stars

### Aries sounding rocket

DEF The largest in terms of weight and volume of the sounding rockets. It has a 44 inch payload capacity.

GS rocket vehicles

sounding rockets

. . Aries sounding rocket

### Arietid meteoroids

GS celestial bodies

. meteoroid showers . . Arietid meteoroids

. meteoroids

. . Arietid meteoroids

ARIP (impact prediction)

computerized simulation USE impact prediction

ARIS instrumentation ship

USE **Advanced Range Instrumentation** Ship

#### arithmetic

number theory GS

. arithmetic

. . double precision arithmetic

fixed point arithmetic

floating point arithmetic

RT addition calculators

computation dividing (mathematics)

exponents integers multiplication subtraction

#### arithmetic and logic units

sums

ALU (computer components)

logic units

computer components

. central processing units

. arithmetic and logic units

computers

double precision arithmetic logic circuits

### Arizona

GS nations

. United States

. Arizona

Colorado Plateau (US)

Colorado River (North America) Grand Canyon (AZ)

Phoenix (AZ)

Phoenix quadrangle (AZ)

### **Arkansas**

GS nations

. United States

. . Arkansas

arm (anatomy)

GS anatomy

. limbs (anatomy)

. . arm (anatomy)

... elbow (anatomy)

. . forearm

appendages

. arm (anatomy) . . elbow (anatomy)

. forearm

RT humerus

scapula ulna

ARMA (mathematics)

(added October 1997) USE autoregressive moving average

### armatures

commutators electric generators electric motors electric relays

induction motors ∞ rotating electrical machines

### armed forces

armed forces

rotors

. armed forces (foreign)

. armed forces (United States)

. navy

RT ∞ military aircraft

∞ military aviation
 military aviation
 military spacecraft
 ∞ military vehicles

| tanks (combat vehicles)                                | queueing theory  | . arroyos   |
|--|--|---|
|  | satellite communication  | RT canyons  |
| armed forces (foreign) GS armed forces                 | spacecraft communication   | drainage patterns                                   |
| . armed forces (foreign)                               | switching circuits telecommunication                                   | erosion<br>limnology                                |
| RT disarmament   | VSAT (network)   | rain impact damage                                  |
| enemy personnel  | ver ii (iieiiie)ii   | water   |
| ∞ military aircraft                                    | ARQ (communication)  | water currents                                      |
| military technology                                    | USE automatic repeat request   | water erosion                                       |
| ∞ military vehicles                                    | arrays   | arcanatas   |
| weapons  | GS arrays  | arsenates GS arsenic compounds                      |
| armed forces (United States)                           | . antenna arrays   | . arsenates   |
| GS armed forces  | linear arrays  | RT arsenides  |
| . armed forces (United States)                         | endfire arrays   | ∞ oxygen compounds                                  |
| RT defense program disarmament                         | Yagi antennas<br>multispectral linear arrays                           | arconio   |
| ∞ military aircraft                                    | steerable antennas   | arsenic GS chemical elements                        |
| military technology                                    | inertialess steerable antennas   | . metalloids  |
| ∞ military vehicles                                    | turnstile antennas   | arsenic   |
| weapons  | . large aperture seismic array   | arsenic isotopes                                    |
| weapons industry                                       | . laser arrays   | RT metals   |
| Armenia  | . multi-anode microchannel arrays<br>. phased arrays                   | arsenic alloys                                      |
| (added August 1993)                                    | . solar arrays   | GS alloys   |
| GS nations   | solar blankets   | . arsenic alloys                                    |
| . Armenia  | . synthetic arrays   | RT metalloids                                       |
| RT Asia  | . systolic arrays  |   |
| Europe   | RT antennas  | arsenic compounds                                   |
| armor  | focal plane devices<br>matrices (mathematics)                          | GS arsenic compounds . arsenates                    |
| RT helmets   | photomasks   | . arsenides   |
| metal plates   | pushbroom sensor modes   | aluminum arsenides                                  |
| ordnance   | ranking  | aluminum gallium arsenides                          |
| protective clothing                                    | ∞ statistics   | indium aluminum arsenides                           |
| shielding  | - arrectore  | gallium arsenides                                   |
| arms (robotics)  | ∞ arresters     SN (USE OF A MORE SPECIFIC TERM IS                     | aluminum gallium arsenides indium gallium arsenides |
| USE robot arms   | RECOMMENDEDCONSULT THE TERMS   | indium arsenides                                    |
|  | LISTED BELOW) RT arresting gear  | indium aluminum arsenides                           |
| Army-Navy instrumentation program                      | RT arresting gear blocking   | indium gallium arsenides                            |
| GS programs  | brakes (for arresting motion)  | proustite   |
| . Army-Navy instrumentation                            | gaps   | RT ∞ chemical compounds                             |
| program<br>RT logistics                                | lightning  | ∞ Group 5A compounds                                |
| military technology                                    | arresting goar   | arsenic isotopes                                    |
| ·······any social sign                                 | arresting gear<br>GS landing aids                                      | GS chemical elements                                |
| AROD (range-orbit determination)                       | . arresting gear   | . metalloids  |
| USE airborne range and orbit                           | safety devices   | arsenic   |
| determination  | . arresting gear   | arsenic isotopes                                    |
| ∞ aromatic compounds                                   | RT abort apparatus   | . nuclides  |
| SN (USE OF A MORE SPECIFIC TERM IS                     | aircraft carriers  | isotopes<br><b>arsenic isotopes</b>                 |
| RECOMMENDEDCONSULT THE TERMS                           | aircraft safety<br>antiskid devices                                    | RT metals   |
| LISTED BELOW) UF aryl compounds                        | ∞ arresters  | radioactive isotopes                                |
| RT ∞ chemical compounds                                | ∞ barriers   | ·   |
| chloroaromatics  | brakes (for arresting motion)  | arsenides   |
| furfuryl alcohol                                       | crash landing  | GS arsenic compounds . arsenides                    |
| hydrocarbons   | ∞ gear   | . aluminum arsenides                                |
| methylidyne organic compounds                          | arrhythmia   | aluminum gallium arsenides                          |
| polycyclic aromatic hydrocarbons                       | DEF Absence of rhythm, as, for example, in                             | indium aluminum arsenides                           |
| polycyclic alcillatio llyarocalizatio                  | heart beat.  | gallium arsenides                                   |
| Aroos meteorite  | GS rates (per time)  | aluminum gallium arsenides                          |
| GS celestial bodies                                    | . heart rate   | indium gallium arsenides<br>indium arsenides        |
| . meteorites   | arrhythmia   | indium aluminum arsenides                           |
| iron meteorites  | arrivals   | indium gallium arsenides                            |
| Alous meteorite  | RT approach  | proustite   |
| arousal  | landing  | RT arsenates  |
| RT alertness   |  | intermetallics                                      |
| electroencephalography                                 | arrow wings  |   |
| ∞ stimuli  | DEF Aircraft wings of V-shaped planform,                               | <b>artemia</b><br>GS animals                        |
| ARPA computer network                                  | either tapering or of constant chord, suggesting a stylized arrowhead. | . invertebrates                                     |
| DEF The "Advanced Research Projects                    | GS airfoils  | arthropods  |
| Agency" of the Department of Defense nation-           | . wings  | artemia   |
| wide computer network incorporating digital            | swept wings  |   |
| communication between large numbers of dis-            | sweptback wings  | arteries  |
| similar computers as well as direct access to          | arrow wings  | GS anatomy  |
| programs, data, storage, etc. shared by all terminals. | planforms<br>. wing planforms  | . circulatory system cardiovascular system          |
| GS networks  | sweptback wings  | blood vessels                                       |
| . communication networks                               | arrow wings  | arteries  |
| internets  | RT caret wings   | aorta   |
| ARPA computer network                                  | delta wings  | arterioles  |
| . computer networks                                    | variable sweep wings   | RT arteriosclerosis                                 |
| internets<br>ARPA computer network                     | arroyos  | bifurcation (biology)<br>carotid sinus body         |
| RT computer techniques                                 | GS landforms   | carotid sinus body                                  |
|  |  |   |

|               | phonoarteriography                             |                | . artificial clouds  |            | machine learning                                   |
|---------------|--|----------------|--|------------|--|
|               | sphygmography                                  |                | chemical clouds  |            | natural language processing                        |
|               | veins  | DT             | barium ion clouds  |            | perception   |
| arteriole     | ne.  | RT             | weather modification   |            | pilot support systems                              |
|               | ed August 2004)                                | artificial     | ears   |            | predicate calculus predicate logic                 |
|               | The smallest divisions of the arteries         |                | medical equipment  |            | Prolog (programming language)                      |
|               | between the muscular arteries and the          |                | . prosthetic devices   |            | robotics   |
| capillarie    |  | БТ             | artificial ears  |            | robots   |
| GS            | anatomy  | RT             | ear  |            | self organizing systems                            |
|               | . circulatory system cardiovascular system     | artificial     | gravity  |            | theorem proving voice data processing              |
|               | blood vessels                                  |                | A simulated gravity established within                                       |            | voice data processing                              |
|               | arteries                                       |                | vehicle by rotation or acceleration.   | artificial | radiation belts                                    |
|               | arterioles                                     | GS             | gravitation  | GS         | particles  |
| RT            | arteriosclerosis                               | RT             | . artificial gravity<br>acceleration stresses (physiology)                   |            | . charged particles                                |
|               | bifurcation (biology)<br>capillaries (anatomy) |                | astronautics   |            | magnetically trapped particles radiation belts     |
|               | capillaties (anatomy)                          |                | environmental control  |            | artificial radiation belts                         |
|               | clerosis                                       |                | gravity gradient satellites  |            | . corpuscular radiation                            |
| UF            | atherosclerosis                                |                | human centrifuges  |            | radiation belts                                    |
| GS            | diseases . arteriosclerosis                    |                | life support systems lower body negative pressure                            |            | artificial radiation belts . trapped particles     |
| RT            | angina pectoris                                |                | rotating environments  |            | magnetically trapped particles                     |
|               | arteries                                       |                | spin dynamics  |            | radiation belts                                    |
|               | arterioles                                     |                | weightlessness   |            | artificial radiation belts                         |
|               | cholesterol                                    | artificial     | harbors  | RT         | inner radiation belt                               |
|               | circulatory system coronary artery disease     |                | waterways  |            | nuclear explosions outer radiation belt            |
|               | myocardial infarction                          |                | . harbors  | ∞          | radiation  |
|               | ,  |                | artificial harbors   |            |  |
| arthritis     |  | RT             | cargo ships  |            | respiration  |
| GS            | diseases                                       |                | deepwater terminals  | USE        | resuscitation                                      |
| RT            | . arthritis<br>bones                           |                | dredging marine technology   | artificial | satellites   |
| IXI           | calcification                                  |                | oceanography   | DEF        | Man-made satellites.                               |
|               | joints (anatomy)                               |                | offshore docking   | GS         | artificial satellites                              |
|               | rheumatic diseases                             |                | offshore platforms   |            | . active satellites                                |
|               |  |                | ship terminals   |            | SYNCOM satellites Early Bird satellites            |
| arthrop<br>GS | animals  |                | tanker ships<br>tanker terminals   |            | SYNCOM 1 satellite                                 |
| 00            | . invertebrates                                | ∞              | tankers  |            | SYNCOM 2 satellite                                 |
|               | arthropods                                     |                | terminal facilities  |            | SYNCOM 3 satellite                                 |
|               | artemia  |                | transportation   |            | SYNCOM 4 satellite                                 |
|               | crabs  | a wifi a i a i | heart values   |            | . Alouette satellites                              |
|               | insects  |                | heart valves<br>medical equipment  |            | Alouette 1 satellite<br>Alouette 2 satellite       |
|               | bollworms                                      | 00             | . artificial heart valves  |            | Alouette B satellite                               |
|               | chironomus flies                               |                | valves   |            | . Arabsat  |
|               | cockroaches                                    |                | . heart valves   |            | . Ariel satellites                                 |
|               | Coleoptera                                     | DT             | artificial heart valves  |            | Ariel 1 satellite                                  |
|               | beetles tribolia                               | RT             | biotechnology<br>blood circulation   |            | Ariel 2 satellite<br>Ariel 3 satellite             |
|               | boll weevils                                   |                | blood pumps  |            | Ariel 4 satellite                                  |
|               | crickets                                       |                | heart  |            | Ariel 5 satellite                                  |
|               | Drosophila                                     |                | heart implantation   |            | . BESS (satellite)                                 |
|               | fireflies                                      | artificial     | intelligence   |            | . biosatellites                                    |
|               | grasshoppers<br>locusts                        |                | intelligence A discipline concerned with the devel-                          |            | Biosatellite 1 Biosatellite 2                      |
|               | moths  |                | of computer and extended-robotic sys-  |            | Biosatellite 3                                     |
|               | silkworms                                      |                | t can exhibit intelligent action. May also                                   |            | Orbiting Frog Otolith                              |
|               | spiders  |                | ed as a subfield of computer science   |            | Sputnik 2 satellite                                |
| RT            |  |                | ed with concepts and methods of sym-   |            | . communication satellites ACTS                    |
|               | larvae   |                | erence by a computer and the symbolic station of the knowledge to be used in |            | aeronautical satellites                            |
| articula      | tion (speech)                                  |                | nferences.   |            | Aerosat satellites                                 |
| GS            | speech   | UF             | machine recognition  |            | Arcomsat   |
|               | . articulation (speech)                        | GS             | intelligence   |            | Communications Technology                          |
| RT            | languages                                      | RT             | . artificial intelligence  |            | Satellite<br>ComStar C                             |
|               | speech defects                                 | KI             | automata theory backpropagation (artificial intelligence)                    |            | NATO 3B satellite                                  |
| artifacts     | 3  |                | belief networks  |            | ComStar satellites                                 |
| RT            | anthropology                                   |                | bionics  |            | direct broadcast satellites                        |
|               | antiquities                                    |                | character recognition  |            | European Communications                            |
|               | culture (social sciences)<br>museums           |                | cognition computer vision  |            | Satellite  |
|               | macoumo  |                | computers  |            | Intelsat satellites low frequency transionospheric |
| artificia     | l cardiac pacemaker                            |                | decision support systems   |            | satellites   |
| GS            | medical equipment                              |                | depersonalization  |            | L-Sat  |
|               | . artificial cardiac pacemaker                 |                | expert systems   |            | Marecs maritime satellites                         |
| RT            | biotechnology<br>blood circulation             |                | genetic algorithms<br>hypertext  |            | Marots (ESA)  Molniva satellites                   |
|               | cardiology                                     |                | information processing (biology)   |            | Molniya satellites<br>MSAT                         |
|               | circulatory system                             |                | intellect  |            | Palapa satellites                                  |
|               | heart  |                | knowledge based systems  |            | Palapa 2 satellite                                 |
|               | heart conduction system                        |                | knowledge bases (artificial  |            | Raduga satellite                                   |
|               | pulmonary circulation                          |                | intelligence)  |            | RCA Satcom satellites                              |
| artificia     | clouds   | ~              | knowledge representation logic   |            | Relay satellites Relay 1 satellite                 |
| GS            | clouds (meteorology)                           |                | logic programming  |            | Relay 2 satellite                                  |
|               |  |                |  |            |  |

| Symphonie satellites                 | Cosmos 225 satellite                   | . Marisat satellites                      |
|--------------------------------------|--|---|
| SYNCOM satellites                    | Cosmos 381 satellite                   | Marisat 1 satellite                       |
| Early Bird satellites                | Cosmos 954 satellite                   | . maritime satellites                     |
| SYNCOM 1 satellite                   | Cosmos 1129 satellite                  | ERS-1 (ESA satellite)                     |
| SYNCOM 2 satellite                   | Intercosmos satellites                 | Marecs maritime satellites                |
| SYNCOM 3 satellite                   | Explorer 6 satellite                   | Marots (ESA)                              |
| SYNCOM 4 satellite                   | Explorer 10 satellite                  | . meteorological satellites               |
| TDR satellites                       | Explorer 10 satellite                  | AEROS satellite                           |
| Westar satellites                    | Explorer 45 satellite                  |   |
|                                      |  | Cosmos 144 satellite                      |
| . COSPAS                             | OGO                                    | D-2 satellites                            |
| . Courier satellite                  | EGO                                    | DMSP satellites                           |
| . Diademe satellites                 | 0GO-3                                  | Elektron satellites                       |
| . Discoverer satellites              | OGO-5                                  | Elektron 1 satellite                      |
| . Dodge satellite                    | OGO-A<br>POGO                          | Elektron 2 satellite Elektron 4 satellite |
| . EROS (satellites) . ESA satellites | OGO-4                                  | EOLE satellites                           |
| Aerosat satellites                   | OGO-4                                  | ESSA satellites                           |
| COS-B satellite                      | OGO-0                                  | ESSA 1 satellite                          |
| ERS-1 (ESA satellite)                | OSO                                    | ESSA 2 satellite                          |
| . ERS-2 (esa satellite)              | AOSO                                   | ESSA 3 satellite                          |
| ESRO 1 satellite                     | OSO-1                                  | ESSA 4 satellite                          |
| ESRO 2 satellite                     | OSO-2                                  | ESSA 5 satellite                          |
| ESRO 4 satellite                     | OSO-3                                  | ESSA 6 satellite                          |
| European Communications              | 080-4                                  | ESSA 7 satellite                          |
| Satellite                            | OSO-5                                  | ESSA 8 satellite                          |
| Exosat satellite                     | OSO-6                                  | ESSA 9 satellite                          |
| GEOS satellites (ESA)                | 080-7                                  | Explorer 9 satellite                      |
| HEOS satellites                      | OSO-8                                  | Explorer 17 satellite                     |
| HEOS A satellite                     | OSO-C                                  | Explorer 19 satellite                     |
| HEOS B satellite                     | Polar/GGS spacecraft                   | GEOLE satellites                          |
| Hipparcos satellite                  | Radiation and Meteoroid satellite      | GOES satellites                           |
| Infrared Space Observatory (ISO)     | Sputnik 3 satellite                    | GOES 1                                    |
| L-Sat                                | Vanguard 3 satellite                   | GOES 2                                    |
| Magellan ultraviolet astronomy       | Wind/GGS spacecraft                    | GOES 3                                    |
| satellite                            | GEOS-D satellite                       | GOES 4                                    |
| Marecs maritime satellites           | . gravity gradient satellites          | GOES 5                                    |
| Marots (ESA)                         | ATS                                    | GOES 6                                    |
| . METEOSAT satellite                 | ATS 1                                  | GOES 7                                    |
| OTS (ESA)                            | ATS 2                                  | GOES 8                                    |
| TD satellites                        | ATS 3                                  | GOES 9                                    |
| TD-1 satellite                       | ATS 4                                  | GOES 10                                   |
| Envisat-1 satellite                  | ATS 5                                  | GOES 13                                   |
| XMM-Newton telescope                 | ATS 6                                  | METEOSAT satellite                        |
| . European 1 spacecraft              | ATS 7                                  | Nimbus satellites                         |
| . evasive satellites                 | ATS 8                                  | Nimbus 1 satellite                        |
| . French satellites                  | ORBIS CAL satellite                    | Nimbus 2 satellite                        |
| D-1 satellite                        | . GREB satellites                      | Nimbus 3 satellite                        |
| D-2 satellites                       | . Helios satellites                    | Nimbus 4 satellite                        |
| . EOLE satellites                    | Helios 1                               | Nimbus 5 satellite                        |
| FR-1 satellite                       | Helios 2                               | Nimbus 6 satellite                        |
| GEOLE satellites                     | Helios A                               | Nimbus 7 satellite                        |
| PEOLE satellites                     | Helios B                               | NOAA satellites                           |
| . Poseidon satellite                 | . Injun satellites                     | NOAA 2 satellite                          |
| SPOT (French satellite)              | Explorer 25 satellite                  | NOAA 3 satellite                          |
| SRET satellites                      | Injun 1 satellite                      | NOAA 4 satellite                          |
| SRET 1 satellite<br>SRET 2 satellite | Injun 3 satellite<br>Injun 4 satellite | NOAA 5 satellite NOAA 6 satellite         |
| geodetic satellites                  | . INMARSAT satellites                  | NOAA 6 satellite                          |
| ANNA satellites                      | . Inspector satellite                  | NOAA 7 satellite                          |
| Explorer 29 satellite                | . IRIS satellites                      | NOAA 6 satellite                          |
| . Explorer 36 satellite              | . ISIS satellites                      | NOAA 10 satellite                         |
| . GEOLE satellites                   | Alouette 2 satellite                   | NOAA 10 satellite                         |
| GEOS 1 satellite                     | ISIS-A                                 | NOAA 12 satellite                         |
| . GEOS 2 satellite                   | ISIS-B                                 | NOAA 14 satellite                         |
| . GEOS 3 satellite                   | ISIS-X                                 | San Marco satellites                      |
| Geosat satellites                    | . Landsat satellites                   | San Marco 1 satellite                     |
| LARGOS satellite                     | Landsat 1                              | San Marco 2 satellite                     |
| PAGEOS satellite                     | Landsat 2                              | San Marco 3 satellite                     |
| Vanguard 1 satellite                 | Landsat 3                              | SEOCS (satellite)                         |
| . geophysical satellites             | Landsat 4                              | . SIRS B satellite                        |
| Cosmos satellites                    | Landsat 5                              | Sputnik 1 satellite                       |
| Cosmos 2 satellite                   | Landsat 6                              | Sputnik 2 satellite                       |
| Cosmos 3 satellite                   | Landsat 7                              | Sputnik 3 satellite                       |
| Cosmos 5 satellite                   | Landsat E                              | SRET satellites                           |
| Cosmos 6 satellite                   | Landsat F                              | SRET 1 satellite                          |
| Cosmos 14 satellite                  | . Lincoln Experimental Satellites      | SRET 2 satellite                          |
| Cosmos 44 satellite                  | . lunar satellites                     | Synchronous Earth Observatory             |
| Cosmos 54 satellite                  | Explorer 18 satellite                  | satellite                                 |
| Cosmos 71 satellite                  | Explorer 28 satellite                  | SMS 1                                     |
| Cosmos 110 satellite                 | IMP                                    | SMS 2                                     |
| Cosmos 137 satellite                 | Lunar Orbiter                          | Synchronous Meteorological                |
| Cosmos 144 satellite                 | Lunar Orbiter 1                        | Satellite                                 |
| Cosmos 149 satellite                 | Lunar Orbiter 2                        | SMS 1                                     |
| Cosmos 166 satellite                 | Lunar Orbiter 3                        | SMS 2                                     |
| Cosmos 186 satellite                 | Lunar Orbiter 4                        | TIROS satellites                          |
| Cosmos 188 satellite                 | Lunar Orbiter 5                        | ITOS satellites                           |
| Cosmos 206 satellite                 | Lunar Prospector                       | ITOS 1                                    |
| Cosmos 213 satellite                 | orbiting lunar stations                | ITOS 2                                    |
| Cosmos 224 satellite                 | . Mapsat                               | ITOS 3                                    |
|                                      |  |   |

## artificial satellites

| ITOS 4                             | OSO-8                             | Explorer 41 satellite              |
|------------------------------------|-----------------------------------|------------------------------------|
| TIROS 1 satellite                  | OSO-C                             | Explorer 43 satellite              |
| TIROS 2 satellite                  | Quasat                            | ·                                  |
|                                    |                                   | Explorer 44 satellite              |
| TIROS 3 satellite                  | SAS                               | Explorer 45 satellite              |
| TIROS 4 satellite                  | Explorer 53 satellite             | Explorer 46 satellite              |
| TIROS 5 satellite                  | SAS-1                             | Explorer 47 satellite              |
| TIROS 6 satellite                  | SAS-2                             | Explorer 48 satellite              |
| TIROS 7 satellite                  | SAS-3                             | Explorer 49 satellite              |
|                                    |                                   | ·                                  |
| TIROS 8 satellite                  | Constellation-X                   | Explorer 50 satellite              |
| TIROS 9 satellite                  | James Webb Space Telescope        | Explorer 51 satellite              |
| TIROS 10 satellite                 | LISA (observatory)                | Explorer 52 satellite              |
| TIROS M                            | Space Infrared Telescope Facility | Explorer 53 satellite              |
| TIROS N series satellites          | Spartan satellites                | Explorer 54 satellite              |
|                                    |                                   |                                    |
| NOAA 6 satellite                   | Submillimeter Wave Astronomy      | Explorer 55 satellite              |
| TRMM satellite                     | Satellite                         | Extreme Ultraviolet Explorer       |
| Vanguard 2 satellite               | Swift observatory                 | satellite                          |
| . Midas satellites                 | Tenma satellite                   | Far UV Spectroscopic Explorer      |
| Midas 2 satellite                  | X Ray Astrophysics Facility       | IMP                                |
| Midas 3 satellite                  | XMM-Newton telescope              | International Magnetospheric       |
| Midas 4 satellite                  |                                   |                                    |
|                                    | ATS                               | Explorer                           |
| Midas 5 satellite                  | ATS 1                             | International Sun Earth Explorers  |
| Midas 6 satellite                  | ATS 2                             | International Sun Earth Explorer   |
| Midas 7 satellite                  | ATS 3                             | 1                                  |
| . Multispectral Resource Sampler   | ATS 4                             | International Sun Earth Explorer   |
| . navigation satellites            | ATS 5                             | 2                                  |
| Aerosat satellites                 | ATS 6                             | International Sun Earth Explorer   |
|                                    | ATS 7                             | 3                                  |
| Explorer 22 satellite              |                                   |                                    |
| navigation technology satellites   | ATS 8                             | Advanced Composition Explorer      |
| NAVSTAR satellites                 | Azur satellite                    | IMAGE satellite                    |
| Nova satellites                    | Cannonball 2 satellite            | Micrometeoroid Explorer satellites |
| Refsat                             | CRRES (satellite)                 | Radio Astronomy Explorer           |
| Transit Attitude Control satellite | DIAL satellite                    | satellite                          |
| Transit satellites                 | Environmental Research Satellites | Solar Mesosphere Explorer          |
|                                    |                                   |                                    |
| orbital workshops                  | ERS 17                            | Submillimeter Wave Astronomy       |
| Saturn workshops                   | ERS 18                            | Satellite                          |
| Saturn 1 workshop                  | Intasat satellite                 | Transition Region and Coronal      |
| Saturn 5 workshop                  | EXOS satellites                   | Explorer                           |
| Skylab 1                           | EXOS-A satellite                  | Uhuru satellite                    |
| Skylab 2                           | EXOS-B satellite                  | X Ray Timing Explorer              |
| Skylab 3                           | EXOS-C satellite                  |                                    |
|                                    |                                   | Geopotential Research Mission      |
| Skylab 4                           | EXOS-D satellite                  | Hawkeye satellites                 |
| . PAS                              | Exosat satellite                  | Long Duration Exposure Facility    |
| . passive satellites               | Explorer satellites               | LZEEBE satellite                   |
| Beacon satellites                  | Applications Explorer Satellites  | MagSat satellites                  |
| Beacon Explorer A                  | Cosmic Background Explorer        | MagSat 1 satellite                 |
| Explorer 22 satellite              | satellite                         | Magsat A satellite                 |
|                                    |                                   |                                    |
| Echo satellites                    | Dual Air Density Explorer         | MagSat B satellite                 |
| Echo 1 satellite                   | Dynamics Explorer satellites      | ORBIS                              |
| Echo 2 satellite                   | Dynamics Explorer 1 satellite     | ORBIS CAL satellite                |
| LAGEOS (satellite)                 | Dynamics Explorer 2 satellite     | OV-1 satellites                    |
| . PAGEOS satellite                 | Explorer 1 satellite              | OV-2 satellites                    |
| . Pegasus satellites               | Explorer 2 satellite              | OV-3 satellites                    |
| . Polyot satellites                | Explorer 3 satellite              | OV-4 satellites                    |
| . ROSAT mission                    | Explorer 4 satellite              | OV-5 satellites                    |
|                                    |                                   |                                    |
| . SAGE satellite                   | Explorer 5 satellite              | SCATHA satellite                   |
| . Samos                            | Explorer 6 satellite              | small scientific satellites        |
| . SarSat                           | Explorer 7 satellite              | Submillimeter Wave Astronomy       |
| . scientific satellites            | Explorer 8 satellite              | Satellite                          |
| AMPTE (satellites)                 | Explorer 9 satellite              | Transition Region and Coronal      |
| astronomical satellites            | Explorer 10 satellite             | Explorer                           |
| Astronomical Netherlands           |                                   | UK satellites                      |
|                                    | Explorer 11 satellite             |                                    |
| Satellite                          | Explorer 12 satellite             | Ariel 4 satellite                  |
| Gamma Ray Observatory              | Explorer 14 satellite             | Ariel 5 satellite                  |
| Ginga satellite                    | Explorer 15 satellite             | Miranda satellite                  |
| HEAO                               | Explorer 16 satellite             | UK 4 satellite                     |
| HEAO 1                             | Explorer 17 satellite             | Aqua spacecraft                    |
| HEAO 2                             | Explorer 18 satellite             | Aura spacecraft                    |
| HEAO 3                             | Explorer 19 satellite             | CALIPSO (Pathfinder satellite)     |
| HEAO 4                             | Explorer 20 satellite             | CloudSat                           |
|                                    | •                                 |                                    |
| Hubble Space Telescope             | Explorer 21 satellite             | Glory Mission satellite            |
| Infrared Astronomy Satellite       | Explorer 22 satellite             | Ice, Cloud and Land Elevation      |
| Infrared Space Observatory (ISO)   | Explorer 23 satellite             | Satellite                          |
| IUE                                | Explorer 24 satellite             | Polar/GGS spacecraft               |
| Large Deployable Reflector         | Explorer 25 satellite             | QuikSCAT satellite                 |
| Magellan ultraviolet astronomy     | Explorer 26 satellite             | TRMM satellite                     |
| satellite                          | Explorer 27 satellite             | . Upper Atmosphere Research        |
| OAO                                | Explorer 28 satellite             |                                    |
|                                    |                                   | Satellite (UARS)                   |
| OAO 1                              | Explorer 29 satellite             | Wind/GGS spacecraft                |
| OAO 2                              | Explorer 30 satellite             | . SCORE satellite                  |
| OAO 3                              | Explorer 31 satellite             | . SEASAT satellites                |
| OSO                                | Explorer 32 satellite             | SEASAT 1                           |
| AOSO                               | Explorer 33 satellite             | SEASAT-B satellite                 |
| OSO-1                              | Explorer 33 satellite             | . Shuttle pallet satellites        |
|                                    |                                   |                                    |
| 080-2                              | Explorer 35 satellite             | . Skynet satellites                |
| OSO-3                              | Explorer 36 satellite             | . Snapshot satellite               |
| OSO-4                              | Explorer 37 satellite             | . solar power satellites           |
| OSO-5                              | Explorer 38 satellite             | . Solar Radiation 1 satellite      |
| OSO-6                              | Explorer 39 satellite             | . Solar Radiation 3 satellite      |
| OSO-7                              | Explorer 40 satellite             | . Soviet satellites                |
|                                    | Explorer to satellite             | . Outlot satellites                |
|                                    |                                   |                                    |

| Cosmos 782 satellite   |  | N.42   |   |  |
|--|--|--|---|--|
|  |  | . Miranda satellite  |   | insulation   |
| Cosmos 936 satellite   |  | . SIRIO satellite  |   | nonflammable materials   |
| Cosmos satellites  |  | . StormSat satellite   |   | serpentine   |
| Cosmos 2 satellite   |  | . Synchronous Earth Observatory  |   | thermal insulation   |
|  |  | satellite  |   |  |
| Cosmos 3 satellite   |  | SMS 1  | ascent  |  |
| Cosmos 5 satellite   |  |  |   | ascent   |
| Cosmos 6 satellite   |  | SMS 2  | GS  |  |
| Cosmos 14 satellite  |  | . Synchronous Meteorological   |   | . climbing flight  |
|  |  | Satellite  | RT  | balloons   |
| Cosmos 44 satellite  |  | SMS 1  |   | descent  |
| Cosmos 54 satellite  |  | SMS 2  |   | Lunar Module Ascent Stage  |
| Cosmos 71 satellite  |  |  |   |  |
| Cosmos 110 satellite   |  | . SYNCOM satellites  |   | takeoff  |
|  |  | Early Bird satellites  |   |  |
| Cosmos 137 satellite   |  | SYNCOM 1 satellite   | ascent  | propulsion systems   |
| Cosmos 144 satellite   |  | SYNCOM 2 satellite   | GS  | propulsion   |
| Cosmos 149 satellite   |  | SYNCOM 3 satellite   |   | ascent propulsion systems  |
| Cosmos 166 satellite   |  |  |   | propulsion system configurations   |
| Cosmos 186 satellite   |  | SYNCOM 4 satellite   |   |  |
| Cosmos 188 satellite   |  | . TD satellites  |   | ascent propulsion systems  |
|  |  | TD-1 satellite   | RT  | Lunar Module   |
| Cosmos 206 satellite   | _  | Telstar satellites   |   | missiles   |
| Cosmos 213 satellite   |  | . Telstar 1 satellite  |   | propellants  |
| Cosmos 224 satellite   |  |  |   | rocket propellants   |
| Cosmos 225 satellite   |  | . Telstar 2 satellite  |   |  |
|  |  | tethered satellites  |   | space flight   |
| Cosmos 381 satellite   |  | Vanguard satellites  |   | Space Shuttle Ascent Stage   |
| Cosmos 954 satellite   | _  | . Vanguard 1 satellite   | 0   | systems  |
| Cosmos 1129 satellite  |  | . Vanguard 2 satellite   |   | <del>-</del>   |
| Intercosmos satellites   |  |  | ascent  | trajectories   |
| Granat satellite   |  | . Vanguard 3 satellite   |   |  |
|  |  | Engineering Test Satellites  | GS  | trajectories   |
| Molniya satellites   |  | microsatellites  |   | . ascent trajectories  |
| Prognoz satellites   | _  | nanosatellites   | RT  | ballistic trajectories   |
| Proton satellites  |  | Terra spacecraft   |   | climbing flight  |
| Proton 1 satellite   |  | •  |   | coasting flight  |
| Proton 2 satellite   |  | Vela satellites  |   |  |
|  | RT fl  | exible spacecraft  |   | descent trajectories   |
| Proton 3 satellite   | ir   | iflatable spacecraft   |   | flight mechanics   |
| Proton 4 satellite   | ir   | nterplanetary spacecraft   |   | guidance (motion)  |
| Raduga satellite   |  | inar orbits  |   | injection guidance   |
| Sputnik satellites   |  |  |   | lofting  |
| Sputnik 1 satellite  |  | inar spacecraft  |   |  |
|  | n  | naneuverable spacecraft  |   | Lunar Module Ascent Stage  |
| Sputnik 2 satellite  | n  | nanned spacecraft  |   | midcourse trajectories   |
| Sputnik 3 satellite  | n  | nilitary spacecraft  |   | missile trajectories   |
| Sputnik 4 satellite  |  | lational Oceanic Satellite System  |   | orbit insertion  |
| Sputnik 5 satellite  |  |  |   | parabolic flight   |
| Venera satellites  |  | atural satellites  |   |  |
|  | 0  | bservatories   |   | post boost propulsion system   |
| Venera 2 satellite   | 0  | rbits  |   | rendezvous trajectories  |
| Venera 3 satellite   | re   | econnaissance spacecraft   |   | spacecraft trajectories  |
| Venera 4 satellite   |  |  |   | ,  |
| Venera 5 satellite   |  | atellite sounding  | ascorbi   | c acid   |
|  | ∞ S  | atellites  |   |  |
| Venera 6 satellite   | S  | pace capsules  | UF  | vitamin C  |
| Venera 7 satellite   | S  | pace laboratories  | GS  | acids  |
| Venera 8 satellite   |  | elstar project   |   | . ascorbic acid  |
| Venera 9 satellite   |  |  |   | organic compounds  |
| Venera 10 satellite  | u  | nmanned spacecraft   |   | 0 1  |
|  |  |  |   | cyclic compounds   |
| Venera 11 satellite  | artillery  |  |   | heterocyclic compounds   |
| Venera 12 satellite  | GS v   | reapons  |   | ascorbic acid  |
| . space stations   |  | guns (ordnance)  |   | vitamins   |
| . Automatic Universal Orbiting   |  |  |   | . ascorbic acid  |
| Stations   |  | . artillery  |   | . ascorbic acia  |
|  |  | howitzers  |   |  |
| Columbus space station   |  | precision guided projectiles   | ascorbi   | c acid metabolism  |
| Halo Orbit space station   | RT o   | un launchers   |   |  |
|  |  |  |   | metabolism   |
| International Space Station  |  |  |   | metabolism . ascorbic acid metabolism  |
|  | g  | unnery training  | GS  |  |
| man tended free flyers   | g  | unnery training<br>nissiles  |   | ascorbic acid metabolism   |
| man tended free flyers Mir space station   | g<br>n<br>ri   | unnery training<br>nissiles<br>fles  | GS<br>RT  | . ascorbic acid metabolism vitamins  |
| man tended free flyers Mir space station orbiting lunar stations   | g<br>n<br>ri   | unnery training<br>nissiles  | GS<br>RT<br><i>ASCR r</i>   | . ascorbic acid metabolism vitamins eactor   |
| man tended free flyers     Mir space station     orbiting lunar stations     Salyut space station  | g<br>n<br>ri   | unnery training<br>nissiles<br>fles  | GS<br>RT  | . ascorbic acid metabolism vitamins  |
| man tended free flyers Mir space station orbiting lunar stations Salyut space station Skylab 1   | g<br>n<br>ri<br>S  | unnery training<br>nissiles<br>fles<br>abot projectiles  | GS<br>RT<br><i>ASCR r</i><br>USE  | . ascorbic acid metabolism vitamins eactor   |
| man tended free flyers     Mir space station     orbiting lunar stations     Salyut space station  | g<br>n<br>ri<br>S<br><b>artillery fi</b>   | unnery training<br>nissiles<br>fles<br>abot projectiles<br>re  | GS<br>RT<br><i>ASCR r</i>   | . ascorbic acid metabolism vitamins eactor   |
| man tended free flyers Mir space station orbiting lunar stations Salyut space station Skylab 1 Skylab 2  | g<br>n<br>ri<br>S<br><b>artillery fi</b><br>RT ∞ b   | unnery training<br>nissiles<br>fles<br>labot projectiles<br>re<br>arrages  | GS<br>RT<br><i>ASCR r</i><br>USE  | . ascorbic acid metabolism vitamins eactor   |
| man tended free flyers . Mir space station . orbiting lunar stations . Salyut space station . Skylab 1 . Skylab 2 . Skylab 3   | g<br>n<br>ri<br>S<br><b>artillery fi</b><br>RT ∞ b   | unnery training<br>nissiles<br>fles<br>abot projectiles<br>re  | GS<br>RT<br>ASCR r<br>USE<br>ASDE   | . ascorbic acid metabolism vitamins eactor advanced sodium cooled reactor airport surface detection  |
| man tended free flyers Mir space station orbiting lunar stations Salyut space station Skylab 1 Skylab 2 Skylab 3 Skylab 4  | artillery fi<br>RT ∞ b   | unnery training<br>nissiles<br>fles<br>labot projectiles<br>re<br>arrages  | GS<br>RT<br>ASCR r<br>USE<br>ASDE   | . ascorbic acid metabolism vitamins eactor advanced sodium cooled reactor  |
| man tended free flyers Mir space station orbiting lunar stations Salyut space station Skylab 1 Skylab 2 Skylab 3 Skylab 4 Space Operations Center (NASA)   | g<br>n<br>ri<br>S<br><b>artillery fi</b><br>RT ∞ b   | unnery training<br>nissiles<br>fles<br>labot projectiles<br>re<br>arrages  | GS<br>RT<br>ASCR r<br>USE<br>ASDE<br>USE  | ascorbic acid metabolism vitamins  eactor advanced sodium cooled reactor  airport surface detection equipment  |
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|  | Armenia  | GS ratios   | RT antisubmarine warfare  |
|--|--|---|---|
|  | Airiella   | OS TALIOS   |   |
|  | Azerbaijan   | . aspect ratio  | torpedoes   |
|  |  |   | torpedoes   |
|  | Bangladesh   | fineness ratio  |   |
|  | Brunei   | high aspect ratio   | Assateague Island (MD-VA)   |
|  | Burma  | low aspect ratio  | GS landforms  |
|  |  |   |   |
|  | Cambodia   | thickness ratio   | . islands   |
|  | China  | RT aerodynamic characteristics  | Assateague Island (MD-VA)   |
|  | Commonwealth of Independent  | airfoils  | RT Atlantic Ocean   |
|  | •  |   |   |
|  | States   | dimensional analysis  | Maryland  |
|  | Georgia (Eurasia)  | dimensional stability   | Virginia  |
|  | Himalayas  | lift  | · · · g·····a   |
|  |  |   |   |
|  | Hong Kong  | ∞ span  | assaulting  |
|  | India  | structural stability  | •   |
|  | Iran   |   | USE attacking (assaulting)  |
|  |  | wings   |   |
|  | Iraq   |   | assaying  |
|  | Israel   | Aspergillus   |   |
|  |  | GS plants (botany)  | RT chemical analysis  |
|  | Japan  | 1 ( ),  | immunoassay   |
|  | Kazakhstan   | . fungi   | Mars surface samples  |
|  | Kuwait   | Aspergillus   | ·   |
|  |  | RT infectious diseases  | particulate sampling  |
|  | Kyrgyzstan   |   | radioimmunoassay  |
|  | Laos   | ∞ mold  | sampling  |
|  | Lebanon  |   | oampinig  |
|  |  | asphalt   |   |
|  | Malaysia   |   | assembler routines  |
|  | Middle East  | DEF A dark brown to black cementitious  |   |
|  | Mongolia   | material, in which the predominating constitu-  |   |
|  | •  | ents are bitumens which occur in nature or are  | . assembler routines  |
|  | nations  |   | computer programs   |
|  | Nepal  | obtained in petroleum processing.   |   |
|  | North Korea  | GS products   | . computer systems programs   |
|  |  | . petroleum products  | assembler routines  |
|  | Pakistan   |   | RT compilers  |
|  | Papua New Guinea   | asphalt   |   |
|  | Qatar  | RT amorphous materials  | disk operating system (DOS)   |
|  |  | pavements   | operating systems (computers)   |
|  | Red Sea  |   | 3 - 7 7   |
|  | Russian Federation   | pitch (material)  |   |
|  | Saudi Arabia   | tars  | assemblies  |
|  |  | lais  | GS assemblies   |
|  | Sea of Japan   |   |   |
|  | Siberia  | asphaltenes   | . subassemblies   |
|  |  | DEF Components of bitumens that are   | . tail assemblies   |
|  | Sikkim   |   |   |
|  | Singapore  | soluble in carbon disulphide but not in paraffin  | horizontal tail surfaces  |
|  | South Korea  | naphtha, constitute the solid dispersed particles   | sweptback tail surfaces   |
|  |  |   | swing tail assemblies   |
|  | Southeast Asia   | of the bitumens, and consist of high molecular  |   |
|  | Southern Yemen   | weight hydrocarbons.  | T tail surfaces   |
|  |  | RT coal   | trapezoidal tail surfaces   |
|  | Sri Lanka  |   |   |
|  | Syria  | coal derived liquids  | RT accumulations  |
|  | Taiwan   | coal liquefaction   | assembling  |
|  |  | hydrogenation   | ∞ assembly  |
|  | Tajikistan   | nydrogenation   | ,   |
|  | Thailand   |   | collocation   |
|  | Tibet  | aspheres  | ∞ components  |
|  |  | ÚSE aspheric optics   | fabrication   |
|  | tundra   | OOL asplienc optics   |   |
|  | Turkmenistan   |   | mosaics   |
|  | U.S.S.R.   | aspheric optics   | strings   |
|  |  | (added June 1995)   | 3.  |
|  | Uzbekistan   |   |   |
|  | Vietnam  | DEF Lenses whose surfaces are custom  | assembling  |
|  |  | tuned to specific applications, thereby correcting  | GS assembling   |
|  | Yemen  |   | •   |
|  |  | aberrations in an optical system.   | . orbital assembly  |
| ASIC                                   |  | UF aspheres   | . self assembly   |
| USE                                    | application appoints intervaled  | asymmetrical optics   |   |
| USE                                    | application specific integrated  |   |   |
|  | circuits   | nonspherical optics   | ∞ assembly  |
|  |  | GS lenses   | ∞ attachment  |
| acnarta                                | toe  | . aspheric optics   |   |
| asparta                                |  |   | clean rooms   |
| GS                                     | biopolymers  | RT asphericity  | collection  |
|  | . proteins   | laser fusion  | construction  |
|  | •  |   |   |
|  | aspartates   | lens design   | fabrication   |
|  | esters   | optical materials   | fitting   |
|  | . aspartates   | ∞ optics  |   |
|  |  | optioo  | installing  |
|  | organic compounds  |   | ∞ joining   |
|  | . proteins   | asphericity   | mounting  |
|  |  | RT aberration   | •   |
|  | aspartates   |   | preparation   |
| RT                                     | amino acids  | aspheric optics   | rigging   |
|  | aspartic acid  | geometrical optics  |   |
|  | aspartio acia  |   | space manufacturing   |
|  |  | ∞ optics  |   |
| aspartio                               | c acid   | refraction  | annambly.   |
| GS                                     | acids  | spheres   | ∞ assembly  |
| 63                                     |  | эрногоз   | SN (USE OF A MORE SPECIFIC TERM IS  |
|  | . amino acids  |   | RECOMMENDEDCONSULT THE TERMS  |
|  | aspartic acid  | asphyxia  | LISTED BELOW)   |
|  | aspartic aciu  | RT anoxia   | RT assemblies   |
|  | •  |   |   |
|  | . carboxylic acids   |   |   |
|  | •  | respiration   | assembling  |
|  | . carboxylic acids   | respiration   |   |
|  | . carboxylic acids<br><b>aspartic acid</b><br>organic compounds  |   | assembling collocation  |
|  | . carboxylic acids   | respiration signs and symptoms  | assembling  |
|  | . carboxylic acids aspartic acid organic compounds . amino acids   | respiration   | assembling collocation  |
|  | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid   | respiration signs and symptoms aspiration   | assembling collocation self assembly  |
|  | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid . carboxylic acids  | respiration signs and symptoms  | assembling collocation self assembly  Assembly language   |
|  | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid   | respiration signs and symptoms aspiration   | assembling collocation self assembly  |
| ŖΤ                                     | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid . carboxylic acids . aspartic acid  | respiration signs and symptoms aspiration USE vacuum  | assembling collocation self assembly  Assembly language GS languages  |
| RT                                     | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartic acid aspartates   | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS)   | assembling collocation self assembly  Assembly language GS languages . programming languages  |
| RT                                     | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid . carboxylic acids . aspartic acid  | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor   | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language  |
| RT                                     | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartic acid aspartates   | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS)   | assembling collocation self assembly  Assembly language GS languages . programming languages  |
|  | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartic acid aspartates peptides  | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor   | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders   |
| aspect                                 | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartic acid aspartates peptides ratio  | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)   | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming  |
| aspect<br>DEF                          | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid . carboxylic acids . aspartic acid aspartates peptides ratio In general, the ratio of one dimension   | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)  ASROC engine                             | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming language)  |
| aspect<br>DEF                          | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartic acid aspartates peptides ratio  | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)  ASROC engine                             | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming language)  |
| aspect<br>DEF<br>to anot               | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid . carboxylic acids . aspartic acid aspartates peptides  ratio In general, the ratio of one dimension her. In aeronautics, the ratio of the                      | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)  ASROC engine GS engines                  | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming language) MAP (programming language)                         |
| aspect<br>DEF<br>to anot               | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartates peptides  ratio In general, the ratio of one dimension her. In aeronautics, the ratio of the of the span of an airfoil to the total airfoil | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)  ASROC engine GS engines . rocket engines | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming language) MAP (programming language) RT computer programming |
| aspect DEF to anoti square of area, or | . carboxylic acids . aspartic acid organic compounds . amino acids . aspartic acid . carboxylic acids . aspartic acid aspartates peptides  ratio In general, the ratio of one dimension her. In aeronautics, the ratio of the                      | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)  ASROC engine GS engines                  | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming language) MAP (programming language)                         |
| aspect<br>DEF<br>to anot               | carboxylic acids aspartic acid organic compounds amino acids aspartic acid carboxylic acids aspartates peptides  ratio In general, the ratio of one dimension her. In aeronautics, the ratio of the of the span of an airfoil to the total airfoil | respiration signs and symptoms  aspiration USE vacuum  ASRM (STS) USE Advanced Solid Rocket Motor (STS)  ASROC engine GS engines . rocket engines | assembling collocation self assembly  Assembly language GS languages . programming languages . Assembly language autocoders COMPASS (programming language) MAP (programming language) RT computer programming |

machine oriented languages

### Assess program

Spacelab simulation flights

GS programs

. NASA programs

Assess program

RT space shuttles

#### assessments

#### GS assessments

damage assessment

technology assessment

RT evaluation pilot ratings ratings revenue value

### ASSET gliders

gliders

. ASSET gliders

RT ∞ aircraft

hypersonic gliders lifting reentry vehicles

### ASSET project

programs GS

projects

. ASSET project

aerothermodynamics environmental tests

#### assignment

USE allocations

# assimilation

RT dispersing distributing ∞ distribution

material absorption

#### association reactions

DEF Gas phase chemical processes in which two molecular species A and B react to form a larger molecule AB. In astrophysics these processes are involved in the "condensation" of small gaseous molecules into larger species.

chemical reactions

. association reactions gas-gas interactions

. association reactions

RT astrophysics

chemical equilibrium

condensing

endothermic reactions

exothermic reactions

interstellar chemistry molecular gases

molecular interactions

oxidation

photochemical reactions

photooxidation reaction kinetics vapor phases

associations

USE organizations

## associative memory

(added December 1999)

DEF A method or device for data storage in which data is identified by a part or properties of its content, rather than by an address or relative position.

UF associative storage

content-addressable memory

GS memory (computers)

associative memory

associative processing (computers) computer storage devices

neural nets

optical memory (data storage)

## associative processing (computers)

DEF Byte-variable computer processing with multifield search, arithmetic, and logic capability.

GS data processing

### . associative processing (computers)

associative memory

digital computers

multiprocessing (computers) parallel processing (computers)

pipelining (computers) ∞ processing

associative storage

(added December 1999)

associative memory

## assumptions

RT hypotheses inference risk simplification ∞ theories

#### assurance

RT insurance (contracts) quality control redundancy reliability

### **Assured Crew Return Vehicle**

(added September 1995)

An aerospace vehicle designed to return space station crews to Earth quickly (less than 24 hours) in the event of crew illness/injury, space station catastrophe/failure, or transportation element catastrophe/failure.
UF ACRV

GS recovery vehicles

## Assured Crew Return Vehicle

RT emergency life sustaining systems escape capsules

International Space Station

lifeboats

rescue operations

return to Earth space flight safety management Soyuz spacecraft

survival equipment

X-38 crew return vehicle

## astatine

GS chemical elements

. halogens

. . astatine

metals

. astatine

# astatine isotopes

GS chemical elements

. nuclides

. . isotopes

. . . radioactive isotopes

... astatine isotopes

metals

. astatine isotopes

## ASTEC solar turboelectric generator

GS auxiliary power sources

. solar auxiliary power units
. ASTEC solar turboelectric

## generator

electric generators . rotating generators

. . turbogenerators

... ASTEC solar turboelectric generator

. solar generators

. . solar auxiliary power units

... ASTEC solar turboelectric

generator turbomachinery

. turbogenerators

. . ASTEC solar turboelectric generator

Rankine cycle RT

thermoelectric generators

### asteroid belts

DEF The location of the orbits of most of the minor planets (estimated at a half million asteroids) between Mars and Jupiter; about 2000 asteroids have been assigned numbers and

celestial bodies

. asteroid belts

. Toro asteroid Amor asteroid

Amphitrite asteroid Apollo asteroids asteroid collisions

asteroids belts

Ceres asteroid

Chiron

Gaspra asteroid Icarus asteroid Ida asteroid

meteorite parent bodies

meteoroids. Quagar regions solar system space debris Toutatis asteroid

Vesta asteroid

### asteroid capture

DEF The transfer of an asteriod or comet from the influence of a planet into that of another planet or neutral satellite.

asteroids celestial bodies containment enclosures payloads retaining solar system

#### asteroid collisions

(added July 1997)

GS collisions

asteroid collisions asteroid belts

asteroid detection cometary collisions

craters

Earth (planet) hypervelocity impact

meteorite collisions near Earth objects

## asteroid detection

(added July 1997)

detection GS

. asteroid detection

asteroid collisions

asteroids sky surveys (astronomy)

space observations (from Earth)

space surveillance (ground based)

stellar occultation

asteroid missions DEF Space missions for the study of asteroids and related celestial bodies.

GS space missions

asteroid missions . . Comet Rendezvous Asteroid Flyby Mission

. . Near Earth Asteroid Rendezvous

Mission . . Rosetta mission

asteroids

Clementine spacecraft Deep Space 1 Mission

flyby missions interplanetary flight

∞ missions New Horizons mission space exploration

### asteroids

DEF Small celestial bodies revolving around the sun, most having orbits between those of Mars and Jupiter.

GS celestial bodies

## . asteroids

minor planets

. . Amor asteroid . . Amphitrite asteroid

. . Apollo asteroids

. . Ceres asteroid Chiron EROS asteroid Gaspra asteroid . . Icarus asteroid Ida asteroid . . Quaoar Toro asteroid . . Toutatis asteroid . . Trojan asteroids . . Vesta asteroid RT asteroid belts asteroid capture asteroid detection asteroid missions dwarf planets Kuiper belt meteorite parent bodies meteoroids near Earth objects solar system space debris trans-Neptunian objects asteroseismology (added March 2001) Study of stellar oscillations as a means to probing the internal structure and dynamics of UF stellar seismology seismology GS asteroseismology . helioseismology RT astrometry astronomical photometry astrophysics starquakes stellar evolution stellar interiors stellar oscillations stellar physics asthenopia GS diseases . eye diseases asthenopia fatigue (biology) RT asthenosphere (added August 1994) DEF Layer or shell of the Earth below the lithosphere which is weak and in which isostatic adjustments take place, magmas may be generated, and seismic waves are strongly attenuboundary layers Earth mantle Earth planetary structure lithosphere planetary structure seismology tectonics asthma diseases . respiratory diseases DEF A defect of an optical system in consequence of which rays from a point fail to meet in a focal point resulting in a blurred and imperfect image ĞS diseases . eye diseases . astigmatism distortion focusing geometrical optics haploscopes lenses ∞ optics refraction stigmatism ASTP USE Apollo Soyuz test project astrionics Astronautical electronics, particularly DEF

avionics ∞ control  $\infty$  electronics guidance (motion) satellite communication single event upsets spacecraft communication spacecraft electronic equipment spacecraft instruments ∞ test equipment Astro missions (STS) GS payloads Space Shuttle payloads Astro missions (STS) RT ∞ missions spaceborne astronomy spaceborne telescopes Spacelab payloads Astro vehicle (EXCLUDES STS) maneuverable spacecraft . Astro vehicle manned spacecraft Astro vehicle reentry vehicles . recoverable spacecraft . Astro vehicle soft landing spacecraft Astro vehicle aerospace planes boostalide vehicles ferry spacecraft lifting reentry vehicles ∞ spacecraft Astrobee 1500 rocket vehicle GS rocket vehicles . multistage rocket vehicles . . Astrobee rocket vehicles ... Astrobee 1500 rocket vehicle . sounding rockets . . Astrobee rocket vehicles . . Astrobee 1500 rocket vehicle RT solid propellant rocket engines Astrobee rocket vehicles GS rocket vehicles . multistage rocket vehicles . . Astrobee rocket vehicles . . . Astrobee 1500 rocket vehicle . sounding rockets . . Astrobee rocket vehicles . Astrobee 1500 rocket vehicle RT Genie rocket vehicle solid propellant rocket engines ∞ vehicles astrobiology USE exobiology astrodynamics The practical application of celestial mechanics, astroballistics, propulsion theory, and allied fields to the problem of planning and directing the trajectories of space vehicles. GS classical mechanics . space mechanics astrodynamics RT ∞ astronautics astronomical observatories celestial bodies celestial mechanics ∞ dynamics interplanetary flight orbital mechanics orbital resonances (celestial mechanics) orbits ∞ science space exploration space flight space navigation ∞ spacecraft

the development and use of electronic equip-

ment and systems for space vehicles and plat-

RT ∞ astronautics

trajectory analysis

astrography

(EXCLUDES ASTRONOMICAL PHOTOGRAPHY) astronomical maps SN mapping planetary mapping

## **Astroguide Navigation System**

GS navigation

. celestial navigation

. . Astroguide Navigation System

. inertial navigation

. Astroguide Navigation System

inertial coordinates star trackers ∞ systems

astrolabes

Instruments designed to observe the positions and measure the altitudes of celestial bodies.

GS measuring instruments . indicating instruments

astrolabes

altimeters astrometry

astronomical observatories

astronomy celestial bodies position (location) position errors solar position star distribution star trackers stars

## Astroloy (trademark)

GS alloys

. chromium alloys

Astroloy (trademark)

. cobalt alloys

. Astroloy (trademark)

. high strength alloys

. nickel alloys

... Astroloy (trademark)

. ternary alloys

. . Astroloy (trademark)

astromasts

USE longerons

astrometry RT

asteroseismology astrolabes astronomical maps astronomical photography astronomical polarimetry astronomy double stars Hipparcos satellite ∞ measurement parallax planet detection

proper motion solar diameter stellar parallax

## Astron thermonuclear reactor

nuclear reactors GS

. Astron thermonuclear reactor

relativistic plasmas

thermonuclear power generation thermonuclear reactions

## astronaut locomotion

GS locomotion

astronaut locomotion extravehicular activity

extravehicular mobility units intravehicular activity life support systems man operated propulsion systems manned maneuvering units orbital workers

## astronaut maneuvering equipment

astronaut maneuvering equipment . manned maneuvering units

| RT      | Crew Equipment Translation Aid (ISS)  |         | interplanetary navigation                   |         | . astronomical observatories      |
|---------|---------------------------------------|---------|---|---------|-----------------------------------|
|         | extravehicular activity               |         | interstellar travel                         |         | astronomical satellites           |
|         | extravehicular mobility units         |         | radio navigation                            |         | Astronomical Netherlands          |
|         | human factors engineering             |         | space navigation                            |         | Satellite                         |
|         | IMLSS                                 |         | opado navigation                            | RT      | Netherlands                       |
|         | intravehicular activity               | astron  | omical catalogs                             | 131     | Netherlands space program         |
|         | self maneuvering units                | UF      | star catalogs                               |         | retrictional as space program     |
|         | walking machines                      | GS      | documents                                   |         |                                   |
|         | waiking machines                      | 00      | . catalogs (publications)                   | astrono | omical observatories              |
| actrono | ut performance                        |         | astronomical catalogs                       | GS      | observatories                     |
|         |                                       | DT.     | ∞ catalogs                                  |         | . astronomical observatories      |
| GS      | human performance                     | KI      |   |         | astronomical satellites           |
|         | . astronaut performance               |         | classifications                             |         | Astronomical Netherlands          |
|         | blackout prevention                   |         | ephemerides                                 |         | Satellite                         |
| RT      | confinement                           |         | northern sky                                |         | Gamma Ray Observatory             |
|         | confining                             |         | sky surveys (astronomy)                     |         |                                   |
|         | human factors engineering             |         | Southern sky                                |         | Ginga satellite                   |
|         | intravehicular activity               |         | tables (data)                               |         | HEAO                              |
|         | man machine systems                   |         |   |         | HEAO 1                            |
|         | operator performance                  | astron  | omical coordinates                          |         | HEAO 2                            |
| 00      | performance                           | DEF     | Coordinates defining a point on the         |         | HEAO 3                            |
|         | physiological factors                 | surface | of the Earth, or of the geoid, in which the |         | HEAO 4                            |
|         | pilot performance                     |         | rection of gravity is used as a reference.  |         | Hubble Space Telescope            |
|         | psychological factors                 | GS      | coordinates                                 |         | Infrared Astronomy Satellite      |
|         | space psychology                      |         | . astronomical coordinates                  |         | Infrared Space Observatory (ISO)  |
|         |                                       | RT      |   |         | IUE                               |
|         | spacecraft performance                | IXI     | celestial reference systems                 |         | Large Deployable Reflector        |
|         | weightlessness                        |         |   |         | Magellan ultraviolet astronomy    |
|         |                                       |         | cylindrical coordinates                     |         | satellite                         |
|         | ut training                           |         | geocentric coordinates                      |         | OAO                               |
| GS      | education                             |         | northern sky                                |         |                                   |
|         | . flight training                     |         | planetocentric coordinates                  |         | OAO 1                             |
|         | space flight training                 |         | planispheres                                |         | OAO 2                             |
|         | astronaut training                    |         | polar coordinates                           |         | OAO 3                             |
|         | learning                              |         | proper motion                               |         | OSO                               |
|         | . astronaut training                  |         | reference stars                             |         | AOSO                              |
| RT      | ejection training                     |         | solar longitude                             |         | OSO-1                             |
| IXI     |                                       |         | spherical coordinates                       |         | OSO-2                             |
|         | pilot training                        |         | opriorioar ocordinates                      |         | OSO-3                             |
|         | space maintenance                     | aetron  | omical interferometry                       |         | OSO-4                             |
|         | space psychology                      |         | led June 1993)                              |         | OSO-5                             |
|         | training simulators                   |         |   |         | OSO-6                             |
|         |                                       | GS      | interferometry                              |         | OSO-7                             |
| astrona | nutics                                |         | astronomical interferometry                 |         | OSO-8                             |
| SN      | (USE OF A MORE SPECIFIC TERM IS       | RT      | astronomy                                   |         |                                   |
|         | RECOMMENDEDCONSULT THE TERMS          |         | etalons                                     |         | OSO-C                             |
| 555     | LISTED BELOW)                         |         | infrared interferometers                    |         | Quasat                            |
|         | The science of space flight including |         | interferometers                             |         | SAS                               |
|         | sign, construction, and operation of  |         | LIGO (observatory)                          |         | Explorer 53 satellite             |
| spacecr | aft.                                  |         | LISA (observatory)                          |         | SAS-1                             |
| RT      | aerospace environments                |         | planet detection                            |         | SAS-2                             |
|         | artificial gravity                    |         | radio astronomy                             |         | SAS-3                             |
|         | astrionics                            |         | Sagnac effect                               |         | Constellation-X                   |
|         | astrodynamics                         |         | space observations (from Earth)             |         | James Webb Space Telescope        |
|         | astronauts                            |         | space observations (non Earth)              |         | LISA (observatory)                |
|         | astronomy                             |         |   |         | Space Infrared Telescope Facility |
|         | auxiliary propulsion                  |         | very long base interferometry               |         | Spartan satellites                |
|         | avionics                              |         |   |         | Submillimeter Wave Astronomy      |
|         | bioastronautics                       |         | omical maps                                 |         |                                   |
|         | Biosatellite 3                        | GS      | maps  |         | Satellite                         |
|         |                                       |         | . astronomical maps                         |         | Swift observatory                 |
|         | cosmonauts                            |         | planispheres                                |         | Tenma satellite                   |
|         | Earth-Venus trajectories              | RT      | astrography                                 |         | X Ray Astrophysics Facility       |
|         | human factors engineering             |         | astrometry                                  |         | XMM-Newton telescope              |
|         | lunar bases                           |         | celestial reference systems                 |         | Astroplane                        |
|         | propulsion                            |         | celestial sphere                            |         | ROSAT mission                     |
|         | soft landing                          |         | lunar maps                                  |         | SOFIA (airborne observatory)      |
|         | space exploration                     |         | •   |         | solar observatories               |
|         | space flight                          | astron  | omical models                               |         | OSO                               |
|         | space maintenance                     | UF      | orreries                                    |         | AOSO                              |
|         | space navigation                      | GS      | models                                      |         | OSO-1                             |
|         | spacecraft docking                    | 00      | . astronomical models                       |         | OSO-2                             |
|         | weightlessness                        |         |   |         | OSO-3                             |
|         | Weightiesshess                        |         | density wave model                          |         |                                   |
|         | to                                    | БТ      | stellar models                              |         | OSO-4                             |
| astrona |                                       | RT      | big bang cosmology                          |         | OSO-5                             |
| GS      | personnel                             |         | corotation                                  |         | OSO-6                             |
|         | . flying personnel                    |         | cosmology                                   |         | OSO-7                             |
|         | astronauts                            |         | Earth analogs                               |         | OSO-8                             |
|         | orbital workers                       |         | mathematical models                         |         | OSO-C                             |
| RT ∝    | o astronautics                        |         | molecular clouds                            |         | Pinhole Occulter Facility         |
|         | awards                                |         | planetariums                                |         | STEREO (observatory)              |
|         | cosmonauts                            |         | Reissner-Nordstrom solution                 |         | European Southern Observatory     |
|         | crew experiment stations              |         | solar neutrinos                             |         | LIGO (observatory)                |
|         | crew observation stations             |         | solar oscillations                          | RT      | astrodynamics                     |
|         | crew workstations                     |         | stellar oscillations                        | 13.1    | astrolabes                        |
|         | crews                                 |         | Stonal OsomatiOHS                           |         |                                   |
|         |                                       | A -4    | omical Notherlands Catallit-                |         | astronomy                         |
|         | pilots (personnel)                    |         | omical Netherlands Satellite                |         | celestial bodies                  |
|         | spacecrews                            | UF      | ANS   |         | geophysical observatories         |
|         |                                       | GS      | artificial satellites                       |         | honeycomb mirrors                 |
|         | vigation                              |         | . scientific satellites                     |         | Jodrell Bank Observatory          |
| GS      | navigation                            |         | astronomical satellites                     |         | lunar observatories               |
|         | . celestial navigation                |         | Astronomical Netherlands                    |         | Next Generation Space Telescope   |
|         | astronavigation                       |         | Satellite                                   |         | project                           |
| RT      | air navigation                        |         | observatories                               |         | northern sky                      |
| -       | <u> </u>                              |         |   |         | •                                 |

# astronomical photography

|         | observation scheduling                   |        | OSO-3                             |         | organic solids                            |
|---------|--|--------|-----------------------------------|---------|---|
|         | radio astronomy                          |        | OSO-4                             |         | radial velocity                           |
|         | seeing (astronomy)                       |        | OSO-5                             |         | radiation spectra                         |
|         | segmented mirrors                        |        | OSO-6                             |         | radio astronomy                           |
|         | Southern sky                             |        | OSO-7                             |         | radio spectroscopy                        |
|         | spaceborne telescopes                    |        | OSO-8                             |         | Raman spectroscopy                        |
|         | telescopes                               |        | OSO-C                             |         | solar spectra                             |
|         | 10.0000 p.00                             |        | Quasat                            |         | Southern sky                              |
| astrono | omical photography                       |        | SAS                               |         | spectra                                   |
| GS      | imagery                                  |        | Explorer 53 satellite             |         | spectroscopic telescopes                  |
|         | . photography                            |        | SAS-1                             |         | stellar spectra                           |
|         | astronomical photography                 |        | SAS-2                             |         | ultraviolet spectroscopy                  |
| RT      | aerial photography                       |        | SAS-2<br>SAS-3                    |         |   |
| 111     | astrometry                               |        | Constellation-X                   |         | visible spectrum                          |
|         | astronomy                                |        |                                   |         | x ray spectroscopy                        |
|         | atmospheric windows                      |        | James Webb Space Telescope        | actrono | omical telescopes                         |
|         | Baker-Nunn camera                        |        | LISA (observatory)                |         | telescopes                                |
|         |  |        | Space Infrared Telescope Facility | USL     | telescopes                                |
|         | black and white photography              |        | Spartan satellites                | astron  | omy                                       |
|         | coronagraphs                             |        | Submillimeter Wave Astronomy      | DEF     | The science that treats of the location,  |
|         | diffraction limited cameras              |        | Satellite                         |         | udes, motions, and constitution of celes- |
|         | electro-optical photography              |        | Swift observatory                 |         |   |
|         | faint object camera                      |        | Tenma satellite                   |         | dies and structures. Used for celestial   |
|         | infrared astronomy                       |        | X Ray Astrophysics Facility       | observa |   |
|         | infrared photography                     |        | XMM-Newton telescope              | UF      | celestial observation                     |
|         | Lallemand cameras                        |        | observatories                     | GS      | astronomy                                 |
|         | lunar photographs                        |        | . astronomical observatories      |         | . gamma ray astronomy                     |
|         | lunar photography                        |        | astronomical satellites           |         | . infrared astronomy                      |
|         | reference stars                          |        | Astronomical Netherlands          |         | . radar astronomy                         |
|         | rocket-borne photography                 |        | Satellite                         |         | . radio astronomy                         |
|         | satellite-borne photography              |        | Gamma Ray Observatory             |         | . spaceborne astronomy                    |
|         | Schmidt cameras                          |        | Ginga satellite                   |         | . ultraviolet astronomy                   |
|         | Southern sky                             |        | HEAO                              |         | . x ray astronomy                         |
|         | spaceborne photography                   |        | HEAO 1                            | RT ·    | ∞ aerospace sciences                      |
|         | spaceborne telescopes                    |        | HEAO 2                            |         | Amor asteroid                             |
|         |  |        | HEAO 3                            |         | Apollo asteroids                          |
| astrono | omical photometry                        |        | HEAO 4                            |         | astrolabes                                |
| GS      | optical measurement                      |        | Hubble Space Telescope            |         | astrometry                                |
|         | . photometry                             |        | Infrared Astronomy Satellite      |         | ∞ astronautics                            |
|         | . astronomical photometry                |        |                                   |         | astronomical interferometry               |
|         | stellar spectrophotometry                |        | Infrared Space Observatory (ISO)  |         | astronomical observatories                |
| RT      | asteroseismology                         |        | IUE                               |         | astronomical photography                  |
|         | atmospheric windows                      |        | Large Deployable Reflector        |         | astronomical polarimetry                  |
|         | blinking                                 |        | Magellan ultraviolet astronomy    |         | astronomical spectroscopy                 |
|         | cometary atmospheres                     |        | satellite                         |         | astrophysics                              |
|         | DIAL satellite                           |        | OAO                               |         | celestial bodies                          |
|         | infrared photometry                      |        | OAO 1                             |         | celestial mechanics                       |
|         |  |        | OAO 2                             |         |   |
|         | planet detection                         |        | OAO 3                             |         | Earth limb                                |
|         | spectrophotometry                        |        | OSO                               |         | halos                                     |
|         | superhumps (astronomy)                   |        | AOSO                              |         | infrared sources (astronomy)              |
|         | telephotometry                           |        | OSO-1                             |         | infrared telescopes                       |
| 4       |  |        | OSO-2                             |         | mass to light ratios                      |
|         | omical polarimetry                       |        | OSO-3                             |         | meteoroid showers                         |
|         | ed July 1991)                            |        | OSO-4                             |         | missing mass (astrophysics)               |
|         | The measurement of electromagnetic       |        | OSO-5                             | •       | ∞ physical sciences                       |
|         | n from celestial bodies by polarimeters. |        | OSO-6                             |         | relic radiation                           |
| GS      | optical measurement                      |        | OSO-7                             | •       | ∞ science                                 |
|         | polarimetry                              |        | OSO-8                             |         | seeing (astronomy)                        |
|         | astronomical polarimetry                 |        | OSO-C                             |         | selenology                                |
| RT      | astrometry                               |        | Quasat                            |         | sidereal time                             |
|         | astronomy                                |        | SAS                               |         | sky surveys (astronomy)                   |
|         | polarimeters                             |        | Explorer 53 satellite             |         | solar neighborhood                        |
|         |  |        | SAS-1                             |         | solar parallax                            |
|         | omical satellites                        |        | SAS-2                             |         | Southern sky                              |
| GS      | artificial satellites                    |        | SAS-3                             |         | spaceborne telescopes                     |
|         | . scientific satellites                  |        | Constellation-X                   |         | stellar magnitude                         |
|         | astronomical satellites                  |        | James Webb Space Telescope        |         | stellar models                            |
|         | Astronomical Netherlands                 |        | LISA (observatory)                |         | stellar oscillations                      |
|         | Satellite                                |        | Space Infrared Telescope Facility |         | telescopes                                |
|         | Gamma Ray Observatory                    |        | Spartan satellites                |         | ·   |
|         | Ginga satellite                          |        | Submillimeter Wave Astronomy      | astrop  | hysics                                    |
|         | HEÃO                                     |        | Satellite                         | DEF     | Study of the physical characteristics     |
|         | HEAO 1                                   |        | Swift observatory                 | and pro | ocesses associated with celestial bodies  |
|         | HEAO 2                                   |        |                                   | and int | terstellar space. The application of the  |
|         | HEAO 3                                   |        | Tenma satellite                   |         | f physics to the study of the celestial   |
|         | HEAO 4                                   |        | X Ray Astrophysics Facility       |         | and astronomical phenomena such as        |
|         | Hubble Space Telescope                   | рт     | XMM-Newton telescope              |         | sity, size, mass, density, temperature,   |
|         | Infrared Astronomy Satellite             | RT     | ROSAT mission                     |         | emical composition. Used for geoastro-    |
|         | Infrared Space Observatory (ISO)         |        | spaceborne astronomy              | physics |   |
|         | IUE                                      |        |                                   | UF      |   |
|         | Large Deployable Reflector               | astron | omical spectroscopy               | GS      | astrophysics                              |
|         | Magellan ultraviolet astronomy           | GS     |                                   | 63      | . computational astrophysics              |
|         | satellite                                | GS     | . astronomical spectroscopy       |         |   |
|         |  |        |                                   |         | . nuclear astrophysics                    |
|         | OAO                                      | DŦ     | stellar spectrophotometry         |         | . stellar physics                         |
|         | OAO 1                                    | RT     | ,                                 |         | solar physics                             |
|         | OAO 2                                    |        | blue shift                        | 5-      | . laboratory astrophysics                 |
|         | OAO 3                                    |        | continuous spectra                | RT      | accretion disks                           |
|         | OSO                                      |        | electromagnetic spectra           |         | association reactions                     |
|         | AOSO                                     |        | infrared spectroscopy             |         | asteroseismology                          |
|         | OSO-1                                    |        | Kuiper Airborne Observatory       |         | astronomy                                 |
|         | OSO-2                                    |        | laboratory astrophysics           |         | brightness distribution                   |

|                                 | brightness temperature   |  | red giant stars  | RT                                      | lungs  |
|---------------------------------|--|--|--|---|--|
|                                 | celestial bodies   |  | S stars  |   | lango  |
|                                 | celestial mechanics  |  | stellar evolution  | ATF                                     |  |
|                                 | cosmology  |  | stellar mass ejection  | USE                                     | F-22 aircraft  |
|                                 | dark energy  |  | otoliai maoo ojootion  |   |  |
|                                 | degenerate matter  | asymnt   | otic methods   | Athena                                  | rocket vehicle   |
|                                 | dense plasmas  |  | problem solving  | GS                                      | rocket vehicles  |
|                                 | disk galaxies  | 00   | . asymptotic methods   |   | . multistage rocket vehicles   |
|                                 |  | RT   | asymptotic metrious asymptotic properties  |   | Athena rocket vehicle  |
|                                 | galactic evolution   | KI   |  | RT                                      | BE-3 engine  |
|                                 | gamma ray astronomy  |  | iterative solution   | IXI                                     | reentry vehicles   |
|                                 | geophysics   |  | learning curves  |   |  |
|                                 | grand unified theory   | ۰  | ∘ methodology  |   | solid propellant rocket engines  |
|                                 | gravitational binding energy   |  |  | a tha raa                               | ala ra a ia  |
|                                 | gravitational collapse   |  | otic properties  | atheros                                 |  |
|                                 | gravitational instability  | DEF  | Properties of any mathematical rela-   | USE                                     | arteriosclerosis   |
|                                 | helioseismology  | tion or  | corresponding physical system charac-  | -41-1-4                                 | _  |
|                                 | interstellar extinction  | terized  | by an approach to a given value as an  | athletes                                |  |
|                                 | magnetic field configurations  | express  | ion, containing a variable, tends to infin-  | RT                                      | competition  |
|                                 | mass to light ratios   | ity.   | 3,   |   | physical exercise  |
|                                 | Michelson interferometers  |  | asymptotes   |   | physical fitness   |
|                                 | missing mass (astrophysics)  |  | asymptotic methods   |   | sports medicine  |
|                                 |  |  | asymptotic series  |   |  |
|                                 | naked singularities  |  | attractors (mathematics)   | athodyd                                 | ls .   |
|                                 | Orion nebula   |  |  | USE                                     | ramjet engines   |
| 000                             | physics  |  | differential equations   |   |  |
|                                 | planetary rotation   |  | integral equations   | Atlanta                                 | (GA)   |
|                                 | radio interferometers  |  | mathematical models  |   | cities   |
|                                 | radio jets (astronomy)   |  | normality  |   | . Atlanta (GA)   |
|                                 | relic radiation  |  |  | RT                                      | Georgia  |
| 000                             | science  | asympt   | otic series  | • | 200.g.u  |
|                                 | solar neutrinos  | GS   | analysis (mathematics)   | Atlantic                                | aircraft   |
|                                 | Spartan satellites   |  | . calculus   |   | Breguet 1150 aircraft  |
|                                 | spin temperature   |  | series (mathematics)   | OOL                                     | Dieguet 1100 anerait   |
|                                 | star formation   |  | asymptotic series  | Atlantic                                | Ocean  |
|                                 | stellar cores  |  | . real variables   |   | oceans   |
|                                 |  |  | series (mathematics)   | 63                                      | . Atlantic Ocean   |
|                                 | stellar envelopes  |  | asymptotic series  | DT                                      |  |
|                                 | stellar evolution  | DT   | asymptotes   | RT                                      | Assateague Island (MD-VA)  |
|                                 | stellar interiors  | KI   |  |   | Azores   |
|                                 | stellar oscillations   |  | asymptotic properties  |   | Bermuda  |
|                                 | theoretical physics  |  | series expansion   |   | Block Island Sound (RI)  |
|                                 | Wolf-Rayet stars   |  |  |   | Cape Hatteras (NC)   |
|                                 | X Ray Astrophysics Facility  |  | ronous motors  |   | Cape Verde   |
|                                 | x ray binaries   | GS   | electromechanical devices  |   | Delaware Bay (US)  |
|                                 | •  |  | . electric motors  |   | English Channel  |
| Astropla                        | ane  |  | asynchronous motors  |   | GARP Atlantic Tropical Experiment  |
| SN                              | (LIMITED TO THE EUROPEAN AIRBORNE  |  | motors   |   | Gulf Stream  |
| 0.1                             | ASTRONOMICAL OBSERVATORY)  |  | . electric motors  |   | Lesser Antilles  |
| GS                              | observatories  |  | asynchronous motors  |   | Lomonosov current  |
|                                 | . astronomical observatories   | RT   | induction motors   |   |  |
|                                 | Astroplane   |  | synchronous motors   |   | Long Island (NY)   |
| RT                              | airborne equipment   |  | Synonionous motors   |   | mid-ocean ridges   |
| 111                             | infrared telescopes  | asynch   | ronous transfer mode   |   | Outer Banks (NC)   |
|                                 | illiared telescopes  |  |  |   | Sargasso Sea   |
| 0.01/20000                      | strical antica   |  | ed January 1997)   |   | Wallops Island   |
| ,                               | etrical optics   | UF   | ATM (data transmission)  |   | West Indies  |
| USE                             | aspheric optics  | RT   | broadband  |   |  |
|                                 |  |  | channels (data transmission)   | Atlantis                                | (orbiter)  |
| asymme                          | etry   |  | communication networks   | UF                                      | Space Shuttle Orbiter 104  |
| UF                              | dissymmetry  |  | data transfer (computers)  | GS                                      | manned spacecraft  |
| RT                              | antisymmetry   |  | data transmission  |   |  |
|                                 | deviation  |  | 21 1 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |   | . space snutties   |
|                                 |  |  | optical switching  |   | . space shuttles Space Shuttle orbiters  |
|                                 | distortion   |  |  |   | Space Shuttle orbiters   |
|                                 |  |  | packet switching   |   | Space Shuttle orbiters Atlantis (orbiter)  |
|                                 | eccentricity   |  |  |   | Space Shuttle orbiters<br>Atlantis (orbiter)<br>reentry vehicles   |
|                                 | eccentricity shapes  | ATARS  | packet switching   |   | Space Shuttle orbiters<br>Atlantis (orbiter)<br>reentry vehicles<br>. recoverable spacecraft   |
|                                 | eccentricity<br>shapes<br>skewness   | <i>ATAR</i> S<br>USF   | packet switching packet transmission   |   | . Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft . reusable spacecraft  |
|                                 | eccentricity<br>shapes<br>skewness<br>symmetry   | <i>ATARS</i><br>USE  | packet switching packet transmission automatic traffic advisory and  |   | . Space Shuttle orbiters . Atlantis (orbiter) reentry vehicles . recoverable spacecraft . reusable spacecraft space shuttles   |
|                                 | eccentricity<br>shapes<br>skewness   |  | packet switching packet transmission   |   | . Space Shuttle orbiters . Atlantis (orbiter) reentry vehicles . recoverable spacecraft . reusable spacecraft . space shuttles Space Shuttle orbiters  |
| 20Vmr4                          | eccentricity<br>shapes<br>skewness<br>symmetry<br>variations   | USE  | packet switching packet transmission automatic traffic advisory and  |   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft . reusable spacecraft . space shuttles Space Shuttle orbiters Atlantis (orbiter)   |
| asympto                         | eccentricity shapes skewness symmetry variations  otes   | USE  | packet switching packet transmission  automatic traffic advisory and resolution  | RT                                      | . Space Shuttle orbiters . Atlantis (orbiter) reentry vehicles recoverable spacecraft . reusable spacecraft . space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight   |
| <b>asympt</b> e<br>GS           | eccentricity shapes skewness symmetry variations  otes analysis (mathematics)  | USE  | packet switching packet transmission  automatic traffic advisory and resolution  diseases  | RT                                      | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft . reusable spacecraft . space shuttles Space Shuttle orbiters Atlantis (orbiter)   |
|                                 | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables   | USE<br>ataxia<br>GS  | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia   | RT                                      | . Space Shuttle orbiters . Atlantis (orbiter) reentry vehicles recoverable spacecraft . reusable spacecraft . space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight   |
|                                 | eccentricity shapes skewness symmetry variations  otes analysis (mathematics)  | USE  | packet switching packet transmission  automatic traffic advisory and resolution  diseases  | RT                                      | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J   |
|                                 | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables   | USE<br>ataxia<br>GS  | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia   |   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B  |
|                                 | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes  | USE<br>ataxia<br>GS  | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia   |   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J   |
|                                 | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes   | USE<br>ataxia<br>GS<br>RT  | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia   | ×                                       | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttle Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  |
| GS                              | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry   | use<br>ataxia<br>Gs<br>RT<br>ataxite                                     | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles   | ∝<br>Atlas A                            | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle  |
| GS                              | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties   | use<br>ataxia<br>gs<br>rt<br>ataxite<br>gs                               | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite  | ×                                       | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle launch vehicles  |
| GS                              | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables . asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series   | use<br>ataxia<br>Gs<br>RT<br>ataxite                                     | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia  | ∝<br>Atlas A                            | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles . Atlas launch vehicles   |
| GS                              | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus  | use<br>ataxia<br>gs<br>rt<br>ataxite<br>gs                               | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite  | ∝<br>Atlas A                            | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle  |
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| GS<br>RT                        | eccentricity shapes skewness skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  | use  ataxia GS RT  ataxite GS RT  Atchafa                                | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA)  | ∝<br>Atlas A                            | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles . recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles . Atlas launch vehicles . Atlas Able 5 launch vehicle rocket vehicles . multistage rocket vehicles  |
| GS RT                           | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars  | use<br>ataxia<br>gs<br>rt<br>ataxite<br>gs<br>rt                         | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA) landforms  | ∝<br>Atlas A                            | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles . Atlas launch vehicles multistage rocket vehicles multistage rocket vehicles Atlas launch vehicles   |
| GS<br>RT<br>asympto<br>UF       | eccentricity shapes skewness skewness symmetry variations  otes analysis (mathematics) . real variables . asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars  AGB stars  | use  ataxia GS RT  ataxite GS RT  Atchafa                                | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA) landforms . structural basins  | Atlas A<br>GS                           | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle multistage rocket vehicles Atlas launch vehicles Atlas launch vehicles Atlas launch vehicles Atlas launch vehicles Atlas Able 5 launch vehicle   |
| GS RT                           | eccentricity shapes skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars  AGB stars celestial bodies  | use  ataxia GS RT  ataxite GS RT  Atchafa                                | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils allaya River Basin (LA) landforms . structural basins . river basins   | ∝<br>Atlas A                            | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle rocket vehicles Atlas launch vehicles Atlas Able 5 launch vehicle lunar probes   |
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| GS<br>RT<br>asympto<br>UF       | eccentricity shapes skewness skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars  AGB stars celestial bodies . stars   | use<br>ataxia<br>gs<br>rt<br>ataxite<br>gs<br>rt<br>Atchafa              | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils alaya River Basin (LA) landforms . structural basins . river basins Atchafalaya River Basin (LA)   | Atlas A<br>GS                           | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle rocket vehicles Atlas launch vehicles Atlas Able 5 launch vehicle lunar probes   |
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| GS<br>RT<br>asympto<br>UF<br>GS | eccentricity shapes skewness skewness symmetry variations  otes analysis (mathematics) . real variables . asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars  AGB stars celestial bodies . stars gjant stars asymptotic giant branch stars   | use<br>ataxia<br>gs<br>rt<br>ataxite<br>gs<br>rt<br>Atchafa              | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA) landforms . structural basins river basins Atchafalaya River Basin (LA) Louisiana rivers   | Atlas A GS RT Atlas A                   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle rocket vehicles Atlas launch vehicles Atlas launch vehicles Atlas launch vehicles Atlas Able 5 launch vehicle lunar probes space probes gena B launch vehicle  |
| GS<br>RT<br>asympto<br>UF<br>GS | eccentricity shapes skewness skewness symmetry variations  otes analysis (mathematics) . real variables . asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars  AGB stars celestial bodies . stars giant stars asymptotic giant branch stars carbon stars color-magnitude diagram  | use  ataxia GS RT  ataxite GS RT  Atchafa GS  RT                         | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils . ataxite breccia soils . structural basins river basins Atchafalaya River Basin (LA) Louisiana rivers   | Atlas A GS RT Atlas A                   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles . Atlas launch vehicles Atlas Able 5 launch vehicle rocket vehicles Atlas launch vehicles Atlas launch vehicles Atlas haunch vehicles Atlas launch vehicles Atlas launch vehicles Atlas haunch vehicles Atlas launch vehicle lunar probes space probes  gena B launch vehicle launch vehicles Atlas launch vehicle launch vehicles Atlas launch vehicle |
| GS<br>RT<br>asympto<br>UF<br>GS | eccentricity shapes skewness skewness symmetry variations  totes analysis (mathematics) . real variables . asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  totic giant branch stars AGB stars celestial bodies . stars . giant stars giant stars asymptotic giant branch stars carbon stars color-magnitude diagram Hertzsprung-Russell diagram | use  ataxia GS RT  ataxite GS RT  Atchafa GS  RT  atelecta DEF           | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA) landforms . structural basins . river basins river basins Atchafalaya River Basin (LA) Louisiana rivers  asis  Collapsed or airless state of all or part | Atlas A GS RT Atlas A                   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle rocket vehicles Atlas launch vehicles Atlas Able 5 launch vehicle lunar probes space probes  gena B launch vehicle launch vehicles Atlas Able 5 launch vehicle lunar probes space probes  gena B launch vehicle launch vehicles Atlas launch vehicle launch vehicles Atlas Able 5 launch vehicle |
| GS<br>RT<br>asympto<br>UF<br>GS | eccentricity shapes skewness skewness symmetry variations  otes analysis (mathematics) . real variables asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  otic giant branch stars AGB stars celestial bodies . stars gjant stars asymptotic giant branch stars carbon stars color-magnitude diagram lete stars                                    | use  ataxia GS RT  ataxite GS RT  Atchafa GS  RT  atelecta DEF of the lu | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA) landforms . structural basins river basins Atchafalaya River Basin (LA) Louisiana rivers  asis  Collapsed or airless state of all or parting.            | Atlas A GS RT Atlas A                   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles . Atlas Able 5 launch vehicle rocket vehicles Atlas Able 5 launch vehicle unal probes space probes  gena B launch vehicle launch vehicles Atlas Able 5 launch vehicle lunar probes space probes  gena B launch vehicle launch vehicles Atlas Able 5 launch vehicle lunar probes space probes  |
| GS<br>RT<br>asympto<br>UF<br>GS | eccentricity shapes skewness skewness symmetry variations  totes analysis (mathematics) . real variables . asymptotes functions (mathematics) . asymptotes analytic geometry asymptotic properties asymptotic series calculus numerical analysis  totic giant branch stars AGB stars celestial bodies . stars . giant stars giant stars asymptotic giant branch stars carbon stars color-magnitude diagram Hertzsprung-Russell diagram | use  ataxia GS RT  ataxite GS RT  Atchafa GS  RT  atelecta DEF           | packet switching packet transmission  automatic traffic advisory and resolution  diseases . ataxia muscles  rocks . ataxite breccia soils  alaya River Basin (LA) landforms . structural basins . river basins river basins Atchafalaya River Basin (LA) Louisiana rivers  asis  Collapsed or airless state of all or part | Atlas A GS RT Atlas A                   | Space Shuttle orbiters Atlantis (orbiter) reentry vehicles recoverable spacecraft reusable spacecraft space shuttles Space Shuttle orbiters Atlantis (orbiter) manned space flight Space Shuttle mission 51-H Space Shuttle mission 51-H Space Shuttle mission 51-J Space Shuttle mission 61-B spacecraft  ble 5 launch vehicle launch vehicles Atlas Able 5 launch vehicle rocket vehicles Atlas launch vehicles Atlas Able 5 launch vehicle lunar probes space probes  gena B launch vehicle launch vehicles Atlas Able 5 launch vehicle lunar probes space probes  gena B launch vehicle launch vehicles Atlas launch vehicle launch vehicles Atlas Able 5 launch vehicle |

... Atlas Agena B launch vehicle . surface to surface missiles . . ATLIT project Agena rocket vehicles . . intercontinental ballistic missiles  $RT \, \infty \, aircraft$ . . . Atlas ICBM Mariner 2 space probe GAW-1 airfoil Midas satellites .... Atlas F ICBM PA-34 Seneca aircraft Ranger 4 lunar probe Atlas ICBM ATM (data transmission) Ranger lunar probes GS missiles (added January 1997) Atlas Agena launch vehicles . ballistic missiles USE asynchronous transfer mode . . intercontinental ballistic missiles launch vehicles Atmosphere Explorer A ... Atlas ICBM . Atlas launch vehicles USE Explorer 17 satellite . . Atlas Agena launch vehicles . . . . Atlas D ICBM rocket vehicles . . . . Atlas E ICBM Atmosphere Explorer B . multistage rocket vehicles .... Atlas F ICBM USE Explorer 32 satellite . . Atlas launch vehicles . surface to surface missiles . . Atlas Agena launch vehicles . . intercontinental ballistic missiles Atmosphere Explorer C Agena rocket vehicles ... Atlas ICBM USE Explorer 51 satellite **Environmental Research Satellites** .... Atlas D ICBM **ERS 17** . . . . Atlas E ICBM Atmosphere Explorer D **ERS 18** . Atlas F ICBM USE Explorer 54 satellite Mariner 5 space probe MA-2 engine Mariner 6 space probe MA-3 engine Atmosphere Explorer E Mariner program USE Explorer 55 satellite OGO-A Atlas launch vehicles SM-65 missile ∞ vehicles atmospheres launch vehicles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS Atlas Centaur launch vehicle . Atlas launch vehicles LISTED BELOW)

(1) The mixture of gases surrounding launch vehicles . . Atlas Able 5 launch vehicle . Atlas launch vehicles . . Atlas Agena B launch vehicle the Earth or filling the habitable volume or a . . Atlas Centaur launch vehicle . . Atlas Agena launch vehicles spacecraft. (2) The pressure exerted by a col-. Centaur launch vehicle . . Atlas Centaur launch vehicle umn of mercury 760 mm high at 1G, equal to . . Atlas Centaur launch vehicle . . Atlas SLV-3 launch vehicle 101. 329 kilopascals. rocket vehicles rocket vehicles RT air . Centaur launch vehicle . multistage rocket vehicles argon-oxygen atmospheres . . Atlas Centaur launch vehicle . . Atlas launch vehicles atmospheric pressure . . . Atlas Able 5 launch vehicle . multistage rocket vehicles cabin atmospheres . . Atlas launch vehicles . . . Atlas Agena B launch vehicle cometary atmospheres controlled atmospheres . . Atlas Centaur launch vehicle . . . Atlas Agena launch vehicles . . . Atlas Centaur launch vehicle Centaur project OAO 1 . . Atlas SLV-3 launch vehicle Earth atmosphere environments OAO 2 EGO equatorial atmosphere OAO 3 Gemini project RL-10 engines gas mixtures MA-5 engine gases Space Shuttle upper stage A Mariner program Mercury flights
Mercury MA-1 flight
Mercury MA-2 flight
Mercury MA-3 flight Surveyor 1 lunar probe Surveyor 2 lunar probe helium-oxygen atmospheres hypobaric atmospheres Surveyor 3 lunar probe life support systems Surveyor 4 lunar probe meteorology Mercury MA-3 flight Mercury MA-5 flight Mercury MA-6 flight Mercury MA-7 flight Mercury MA-8 flight Surveyor 5 lunar probe middle atmosphere Surveyor 7 lunar probe Surveyor 7 lunar probe Neptune atmosphere neutral atmospheres nongray atmospheres Surveyor project nongray gas planetary atmospheres Atlas D ICBM Mercury MA-9 flight GS missiles planetary ionospheres Mercury project . ballistic missiles primitive Earth atmosphere Nomad launch vehicle . . intercontinental ballistic missiles satellite atmospheres OAO ... Atlas ICBM solar atmosphere orbital rendezvous .... Atlas D ICBM stellar atmospheres Ranger project Uranus atmosphere . surface to surface missiles ∞ vehicles . . intercontinental ballistic missiles . . . Atlas ICBM Atmospheric & Oceanographic Inform Sys Atlas SLV-3 launch vehicle (ATMOSPHERIC & OCEANOGRAPHIC INFORMATION SYSTEMS) . . Atlas D ICBM standard launch vehicle 3 Centaur launch vehicle GS launch vehicles A data system designed primarily for Standard Launch Vehicles . Atlas launch vehicles the interactive manipulation of meteorological Atlas SLV-3 launch vehicle Vega launch vehicle satellite images. Capabilities include displaying, Standard Launch Vehicles analyzing, storing, and manipulating digital data Atlas E ICBM . Atlas SLV-3 launch vehicle in the field of meteorology and Earth resources. GS missiles rocket vehicles Used for AOIPS. . ballistic missiles . multistage rocket vehicles UF **AOIPS** . . intercontinental ballistic missiles . . Atlas launch vehicles information systems . . . Atlas ICBM Atlas SLV-3 launch vehicle . Atmospheric & Oceanographic .... Atlas E ICBM Standard Launch Vehicles Inform Sys . surface to surface missiles . Atlas SLV-3 launch vehicle aerology . . intercontinental ballistic missiles liquid propellant rocket engines air water interactions . . . Atlas ICBM MA-5 engine data processing . . . . Atlas E ICBM data systems ATLIT project imagery Atlas F ICBM Advanced Technology Light Twin isotherms GS missiles aircraft meteorological parameters . ballistic missiles programs meteorology . . intercontinental ballistic missiles . NASA programs minicomputers . . . Atlas ICBM

. . ATLIT project

. projects

oceanographic parameters

.... Atlas F ICBM

oceanography Brunt-Vaisala frequency Saturn atmosphere ∞ systems circulation distribution Solar Mesosphere Explorer circumpolar westerlies weather Titan climatology atmospheric absorption convection cells atmospheric conditions USE atmospheric attenuation cyclogenesis USE meteorology Earth atmosphere Atmospheric and Magnetospheric Payload USE AMPS (satellite payload) atmospheric conductivity ground wind horizontal distribution GS transport properties intertropical convergent zones . atmospheric conductivity atmospheric attenuation intraseasonal variations . ionospheric conductivity atmospheric absorption jet streams (meteorology) RT air conductivity GS attenuation Kelvin waves ∞ conductivity . atmospheric attenuation Madden-Julian Oscillation electrical resistivity . auroral absorption meridional flow thermal conductivity acoustic attenuation middle atmosphere atmospheric lasers mixing height atmospheric correction cosmic ray albedo monsoons DEF Removal of the effects of the intervenelectromagnetic absorption planetary meteorology ing atmosphere from satellite imagery. electromagnetic scattering planetary waves pollution transport GS correction electromagnetic wave transmission . atmospheric correction infrared absorption anisoplanatism quasi-biennial oscillation microwave absorption sea breeze Southern Oscillation atmospheric effects molecular absorption clouds (meteorology) planetary atmospheres geometric rectification (imagery) superrotation radar attenuation image classification tornadoes TRMM satellite radar transmission image processing radiation absorption infrared radiometers tropical storms radio attenuation radiative transfer turbopause radio transmission satellite imagery typhoons shock wave attenuation spatial resolution upwelling water shock wave propagation vertical air currents thermal absorption atmospheric density vorticity GS density (mass/volume) transmission wind (meteorology) . atmospheric density vegetative index wind direction wave attenuation air pollution wind profiles Boltzmann distribution wave propagation windpower utilization o density density (number/volume) atmospheric boundary layer Atmospheric Cloud Physics Lab (Spacelab) boundary layers electron density (concentration) GS DEF A NASA Spacelab mission involving atmospheric boundary layer humidity cloud physics experiments in zero gravity enviair flow ion density (concentration) ronment. Also known as ACPL. Used for ACPL air land interactions magnetospheric electron density (Spacelab) and zero-g ACPL (Spacelab). boundary layer flow Ekman layer magnetospheric ion density ÁCPL (Spacelab) magnetospheric proton density zero-g ACPL (Spacelab) material proton density meteorology particle density (concentration) planetary atmospheres plasma density laboratories mixing layers (fluids) . space laboratories planetary boundary layer Atmospheric Cloud Physics Lab primitive equations (Spacelab) proton density (concentration) payloads atmospheric chemistry space density Spacelab payloads
 Atmospheric Cloud Physics Lab DEF Study of the production, transport, modification, and removal of atmospheric constituents in the troposphere and stratosphere.

GS environmental chemistry atmospheric diffusion (Spacelab) diffusion cloud physics meteorological parameters atmospheric diffusion Boltzmann distribution molecular diffusion atmospheric chemistry nephanalysis spacecraft instruments acid rain aerothermochemistry pollution transport air pollution radio scattering atmospheric composition
GS composition (property)
atmospheric composition Aitken nuclei turbulent diffusion atmospheric effects atmospheric effects ∞ chemistry . . atmospheric moisture formyl ions aerosols ionospheric composition air pollution middle atmosphere atmospheric chemistry nitrous acid RT aeronomy photochemical oxidants atmospheric correction photochemical reactions air pollution ∞ effects physical chemistry Aitken nuclei erosion satellite atmospheres carbon dioxide concentration exposure chemical composition rusting atmospheric circulation climate change seeing (astronomy) DEF Global or hemispheric air movements Earth atmosphere soil erosion which can be treated by equations of motion in electron density (concentration) turbulence contrast to atmospheric diffusion which is small equatorial atmosphere vegetative index random movement not amenable to treatment Gaia hypothesis wind effects by these equations. Used for wind circulation. gas composition wind erosion wind circulation horizontal distribution GS circulation in situ measurement atmospheric electricity . atmospheric circulation isotope ratios DEF Electrical phenomena, regarded collectively, which occur in the Earth's atmosphere. . zonal flow (meteorology) LACATE (experiment) middle atmosphere Also the study of electrical processes occurring advection mixing ratios within the atmosphere. air currents air land interactions moisture content GS electricity ozone depletion . atmospheric electricity air masses . . ionospheric currents annual variations particulates . . . Birkeland currents Atmospheric General Circulation planetary atmospheres primitive Earth atmosphere . . . electrojets Experiment . . . . auroral electrojets Atmospheric General Circulation radio occultation

radioactive contaminants

satellite atmospheres

Models baroclinic instability

. equatorial electrojet

... Pedersen currents

RT atmospherics space transportation system primitive Earth atmosphere ball lightning solar oscillations cloud physics **Atmospheric General Circulation Models** stellar oscillations dust storms (added March 1989) Venus clouds Earth atmosphere GS models weather forecasting electric corona . atmospheric models electron density profiles ... Atmospheric General Circulation atmospheric moisture Models GS composition (property) field aligned currents atmospheric circulation . atmospheric composition Atmospheric General Circulation . atmospheric moisture lightning lightning suppression Experiment . concentration (composition) primitive Earth atmosphere . . moisture content climatology long range weather forecasting . . atmospheric moisture ring currents numerical weather forecasting moisture sprites (atmospheric physics) static electricity . atmospheric moisture atmospheric heat budget acid rain telluric currents GS energy budgets Advanced Microwave Sounding Unit atmospheric emission . heat budget USE airglow . atmospheric heat budget cap clouds atmospheric energy sources cirrocumulus clouds atmospheric energy sources Earth radiation budget cirrostratus clouds ammonia greenhouse effect clouds (meteorology) atmospheric heat budget heat balance dew point atmospheric heating heat transfer humidity . atmospheric physics hydrometeors stratospheric warming energy budgets mixing ratios ∞ energy sources atmospheric heating precipitation (meteorology) ethyl alcohol (EXCLUDES AERODYNAMIC HEATING) psychrometers heating planetary atmospheres water vapor atmospheric heating . . global warming atmospheric entry atmospheric noise The penetration of any planetary atmostratospheric warming USE atmospherics sphere by any object from outer space; specifiatmospheric energy sources cally, the penetration of the Earth's atmosphere bolides atmospheric optics DEF The study of the optical characteristics by a manned or unmanned capsule or spacecraft. Used for planetary entry. atmospheric impurities of the atmosphere and of the optical phenomena planetary entry USE air pollution produced by the atmosphere's suspensoids and atmospheric entry hydrometeors. It embraces the study of refrac-GS atmospheric ionization tion, reflection, diffraction, scattering, and polar-. reentry meteoritic ionization ization of light, but is not commonly regarded as . . hyperbolic reentry . . hypersonic reentry GS ionization including the study of any other kinds of radia-. gas ionization ... uncontrolled reentry (spacecraft) . . manned reentry . . atmospheric ionization adaptive optics . . spacecraft reentry . auroral ionization anisoplanatism atmospheric lasers . . uncontrolled reentry (spacecraft) afterglows ablation airglow clarity RT Antares rocket vehicle aeroassist haze infrared absorption light transmission Earth ionosphere aerocapture electron density profiles aerodynamic heating elves aeromaneuvering opacity photoionization bolides ∞ optics plasmasphere descent trajectories seeing (astronomy) radio meteors Earth atmosphere thermal lensing riometers ∞ entry transparence sprites (atmospheric physics) entry guidance (STS) vegetative index falling atmospheric lasers atmospheric physics Galileo project The theoretical phenomena whereby gas guns HE aerophysics orbit decay the upper atmosphere is used as the lasing GS atmospheric physics space flight medium. cloud physics stimulated emission devices spacecraft breakup GS aeronomy . lasers atmospheric energy sources atmospheric entry simulation . atmospheric lasers Brunt-Vaisala frequency atmospheric attenuation atmospheric optics simulation RT dust storms atmospheric entry simulation Earth sciences RT environment simulation atmospheric scattering International Magnetospheric Study flight simulators laser outputs magnetosphere-ionosphere coupling landing simulation TEA lasers meteorology space environment simulation neutral sheets atmospheric loading ∞ physics **Atmospheric General Circulation** USE pollution transport planetary meteorology satellite atmospheres Model experiment of the Earth's atmoatmospheric models ∞ science spheric circulation as proposed for a Spacelab GS models secular variations flight on which a liquid contained between two . atmospheric models turbopause concentric spheres is subjected to rotation. The . . Atmospheric General Circulation thermal driving force will be a stable radial Models atmospheric pressure temperature gradient and an unstable latitudinal The pressure at any point in an atmo-. reference atmospheres gradient. baroclinic instability sphere due solely to the weight of the atmo-Chapman-Ferraro problem spheric gases above the point concerned. Used GS payloads . Space Shuttle payloads climate models for barometric pressure. . . Atmospheric General Circulation environment models barometric pressure Experiment environment simulation GS pressure Spacelab payloads horizontal distribution atmospheric pressure Atmospheric General Circulation intraseasonal variations anticyclones Experiment large eddy simulation atmospheres atmospheric circulation Atmospheric General Circulation Madden-Julian Oscillation RT cyclogenesis mathematical models cyclones numerical weather forecasting gas pressure Models

ocean models

geopotential height

Earth atmosphere

high altitude pressure isobars (pressure) isostatic pressure meteorological parameters pressure gradients radio occultation Southern Oscillation weather

### atmospheric radiation

Infrared radiation emitted by or being propagated through the atmosphere.

## GS atmospheric radiation

- . auroras
- . . auroral arcs
- ... red arcs
- . . radio auroras
- . dawn chorus
- . ionospheric noise
- . . whistlers . sky radiation
- . . airglow
- . . . geocoronal emissions
- . . . nightglow . . . twilight glow
- . . dayglow
- .. elves
- . . sprites (atmospheric physics) . stratosphere radiation

tropospheric radiation corpuscular radiation Earth radiation budget electromagnetic radiation

extraterrestrial radiation

greenhouse effect ionospheric heating

light (visible radiation) ∞ radiation

∞ rays

secondary cosmic rays terrestrial radiation

VLF emission recorders

### atmospheric refraction

DEF Refraction resulting when a ray of radiant energy passes obliquely through an atmo-

GS refraction

## . atmospheric refraction

. radio wave refraction

electromagnetic radiation light transmission refractivity

solar radiation wave dispersion

## atmospheric scattering

GS scattering

. wave scattering

## . . atmospheric scattering

. . tropospheric scattering

atmospheric lasers circumsolar radiation

diffraction

diffusion

electromagnetic scattering

halos

light scattering microwave scattering

radio scattering signal fading vegetative index

atmospheric seeing

USE seeing (astronomy)

atmospheric shells

USE atmospheric stratification

atmospheric sounding
DEF Measurement of atmospheric phenomena generally with instruments carried aloft by spacecraft, rockets, etc.

sounding

## atmospheric sounding

Advanced Microwave Sounding Unit balloon sounding differential absorption lidar in situ measurement ionospheric sounding

rocket sounding satellite sounding visible infrared spin scan radiometer

## atmospheric stratification

DEF The presence of strata or layers in the atmosphere. Used for atmospheric shells.

atmospheric shells GS

stratification

## atmospheric stratification

RT Brunt-Vaisala frequency mixing layers (fluids) plasma layers surface layers

### atmospheric temperature

temperature

### . atmospheric temperature

- . . auroral temperature
- . ionospheric temperature

Advanced Microwave Sounding Unit

ambient temperature climate change Gaia hypothesis

gas temperature

global warming

isotherms

LACATE (experiment) land surface temperature

nand surface temperature meteorological parameters planetary atmospheres planetary temperature quasi-biennial oscillation radio occultation

sodar

sound detecting and ranging

stratospheric warming subzero temperature temperature gradients

temperature inversions thermal resources

## weather

### atmospheric tides

Defined in analogy to the oceanic tide as an atmospheric motion on a worldwide scale, in which vertical accelerations are neglected (but compressibility is taken into account).

GS tides

### atmospheric tides

RT Earth tides lunar tides

## atmospheric turbulence

GS turbulence

## atmospheric turbulence

- . . clear air turbulence
- gusts
- . low level turbulence

aviation meteorology

dissipation gust loads

homogeneous turbulence isotropic turbulence

laminar flow

meteorological parameters

meteorology seeing (astronomy)

tephigrams turbopause turbulent diffusion

turbulent flow wind variations

atmospheric windows
DEF Wavelength intervals at which the atmosphere transmits the most electromagnetic radiation.

astronomical photography RT astronomical photometry

**atmospherics**DEF The radiofrequency electromagnetic radiations originating, principally, in the irregular surges of charge in thunderstorm lightning discharges. Atmospherics are heard as a quasi-steady background of crackling noise (static) in ordinary amplitude modulated radio receivers. Used for atmospheric noise and sferics.

UF atmospheric noise

sferics

electromagnetic interference

. radio frequency interference

. . electromagnetic noise

... atmospherics . . . . ionospherics

. . . . . dawn chorus

. . . . . hiss

... sudden enhancement of atmospherics

. . . whistlers

RT atmospheric electricity

blackout (propagation)

electromagnetic compatibility radio meteorology

radio waves static electricity

thunderstorms

VLF emission recorders

atoll reefs USE

coral reefs

## atolls

Coral reefs appearing in plan view as roughly circular (though sometimes elliptical or roughly circular (though sometimes elliptical or horseshoe-shaped), and surmounted by a chain or ring of closely spaced low coral inlets that encircle a shallow lagoon in which there is no pre-existing land or islands of non-coral origin; the reefs are surrounded by deep water of the open sea, either oceanic or continental shelves. Atolls range in diameter from 1 km to more than 130 km, and are especially common today in the western and central Pacific Ocean. Atoll is derived from the native name in the Maldive Islands (Indian Ocean) which are typical exlands (Indian Ocean) which are typical examples of this structure.

GS landforms . islands . . atolls coral reefs lagoons

## reefs atom concentration

GS composition (property)

. concentration (composition)

atom concentration

chemical composition

∞ density

electron density (concentration)

flux density gas composition

gas density

ion density (concentration) ionospheric composition

plasma composition plasma density

proton density (concentration)

## atom optics

(added January 2002)

Field of study addressing the manipulation of atomic beams in a way that is analogous to the manipulation of light by conventional optics. Reflection, diffraction, and focusing of the atoms is typically carried out through interaction with lasers tuned to the atomic resonances.

atomic beams beam interactions

Bose-Einstein condensates electron optics four-wave mixing

ion optics laser cooling

∞ optics quantum optics

atomic batteries USE radioisotope batteries

## atomic beams

beams (radiation) GS

. particle beams . atomic beams

atom optics ion beams

molecular beams

neutral atoms DEF A form of microscopy that allows the electronic structure neutral beams imaging of general surface morphology and elementary particles surface atomic structure by the measurement of energy levels neutron beams particle diffusion the atomic forces acting on a sharply pointed fine structure rarefied gas dynamics probe as it is moved across the surface of a gravitons Hartree approximation specimen. atomic bombs UF AFM (microscopy) hyperfine structure USE fission weapons GS microscopy interatomic forces . atomic force microscopy isoelectronic sequence atomic clocks melts (crystal growth) atomic structure Timekeeping devices controlled by the molecular structure crystal surfaces frequency of the natural vibrations of certain nuclear chemistry interatomic forces nuclear models microstructure GS measuring instruments nanofabrication nuclear physics . time measuring instruments nanoindentation octets . . clocks surface properties order-disorder transformations ... atomic clocks thin films particle precipitation autonomous spacecraft clocks Pauli exclusion principle chronometers atomic gases polywater clock paradox USE monatomic gases ∞ strúctures frequency standards Thomas-Fermi model atomic interactions gas masers GS atomic interactions masers atomic theory atomic collisions molecular beams atomic theory GS atomic energy levels . Heisenberg theory RT time measurement ∞ interactions electron transitions atomic clusters ion atom interactions ground state (added January 1994) molecular structure Landau factor quantum mechanics adatoms ∞ nuclear energy agglomeration quantum theory atomic layer epitaxy chemisorption ∞ theories (added June 1997) clumps GS growth ∞ clusters atomic weights . crystal growth fullerenes DEF The weight of an atom according to a . . epitaxy scale of atomic weight units, awu, valued as one-twelfth the mass of the carbon atom. Used metal clusters molecular clusters . atomic layer epitaxy molecular beam epitaxy nucleation for atomic mass. thin films UF atomic mass vapor deposition atomic collisions GS weight (mass) vapor phase epitaxy GS atomic interactions . atomic weights . atomic collisions  $RT \, \infty \, weight$ atomic mass collisions USE atomic weights . atomic collisions atomization  $RT \, \infty \, absorption$ USE atomizing atomizing atomic mobilities GS mobility autoionization atomizers atomic mobilities ∞ cross sections atomizing RT RT electron mobility elastic scattering evaporators hole mobility grinding mills electron scattering ionic mobility ∞ nozzles ∞ interactions self diffusion (solid state) ionic collisions sprayers ionization atomic physics molecular collisions atomizing Hartree-Fock-Slater method atomization UF particle collisions  $\infty$  physics GS atomizing recoil ions resonance fluorescence gas atomization recombination reactions ∞ science liquid atomization scattering aerosols atomic recombination atomic energy atomic collisions GS chemical reactions USE nuclear energy atomizers . atomic recombination colloidal generators . oxygen recombination atomic energy levels colloiding recombination reactions triplet excitation UF comminution . atomic recombination triplet state disintegration . oxygen recombination GS level (quantity) flaking deionization . energy levels grinding (comminution) dissociation . atomic energy levels grinding mills emission atomic interactions metal powder emission spectra excitation spraying ion recombination ground state radiative recombination Landau factor atoms laser cooling atoms atomic spectra . adatoms line spectra spectra . helium atoms spontaneous emission atomic spectra . hot atoms Balmer series atomic excitations . hydrogen atoms Lyman alpha radiation GS excitation . metastable atoms Lyman beta radiation . atomic excitations . neutral atoms Lyman spectra energy levels . nitrogen atoms Paschen series Heisenberg theory . oxygen atoms Rydberg series . recoil atoms ionization atomic structure molecular excitation atomic structure particle collisions chemical elements (THIS TERM WAS USED FOR "ELECTRONIC STRUCTURE" PRIOR TO resonance fluorescence ∞ elements free radicals MAY 1999) atomic force microscopy atomic explosions ions USE nuclear explosions isomers atoms constitution isotope separation atomic force microscopy crystal lattices isotopes

density functional theory

molecules

(added February 1994)

|               | monatomic molecules                             |             | ATS 2  | . bomber aircraft                        |
|---------------|---|-------------|--|--|
|               | nuclei (nuclear physics)                        |             | . scientific satellites                                      | A-2 aircraft                             |
|               | polyatomic molecules positive ions              |             | ATS<br><b>ATS 2</b>  | A-3 aircraft<br>A-4 aircraft             |
|               | positronium                                     |             | AIG 2  | A-5 aircraft                             |
|               | pooluomam                                       | ATS 3       |  | A-6 aircraft                             |
| ATP           |   | GS          | artificial satellites  | B-1 aircraft                             |
| USE           | adenosine triphosphate                          |             | . gravity gradient satellites                                | B-2 aircraft                             |
| ATR rea       | ector   |             | ATS<br><b>ATS 3</b>  | B-26 aircraft                            |
| USE           | advanced test reactors                          |             | . scientific satellites                                      | B-47 aircraft<br>B-50 aircraft           |
| 002           | advantou toot rodotoro                          |             | ATS  | B-52 aircraft                            |
|               | aircraft  |             | ATS 3  | B-57 aircraft                            |
|               | ed September 1994)                              | 470.4       |  | B-58 aircraft                            |
| GS            | jet aircraft                                    | ATS 4<br>GS | artificial satellites  | B-66 aircraft                            |
|               | . turboprop aircraft ATR-72 aircraft            | GS          | gravity gradient satellites                                  | B-70 aircraft                            |
|               | passenger aircraft                              |             | ATS  | F-111 aircraft<br>Shackleton bomber      |
|               | . commuter aircraft                             |             | ATS 4  | Valiant aircraft                         |
|               | ATR-72 aircraft                                 |             | . scientific satellites                                      | Victor MK-1 aircraft                     |
| RT ∘          | o aircraft                                      |             | ATS  | Vulcan aircraft                          |
| otrophy       |   |             | ATS 4  | . Breguet 1150 aircraft                  |
| atrophy<br>RT | biological effects                              | ATS 5       |  | . Buccaneer aircraft                     |
| 13.1          | degeneration                                    | GS          | artificial satellites  | . CL-41 aircraft<br>. COIN aircraft      |
|               | deterioration                                   |             | . gravity gradient satellites                                | F-5 aircraft                             |
|               | glucocorticoids                                 |             | ATS  | OV-10 aircraft                           |
|               | hindlimb suspension                             |             | ATS 5  | . DH 115 aircraft                        |
|               | nutritional requirements                        |             | . scientific satellites ATS                                  | . fighter aircraft                       |
|               | physical exercise tissues (biology)             |             | ATS 5  | Alpha jet aircraft                       |
|               | tissues (biology)                               |             | ,  | DH 112 aircraft<br>F-2 aircraft          |
| atropin       | e   | ATS 6       |  | F-2 aircraft                             |
| GS            | bases (chemical)                                | GS          | artificial satellites  | F-5 aircraft                             |
|               | . alkaloids                                     |             | . gravity gradient satellites                                | F-8 aircraft                             |
|               | atropine  |             | ATS<br>ATS 6   | F-9 aircraft                             |
|               | drugs<br>. stimulants                           |             | . scientific satellites                                      | F-14 aircraft                            |
|               | . atropine                                      |             | ATS  | F-15 aircraft                            |
|               | nitrogen compounds                              |             | ATS 6  | F-16 aircraft<br>F-17 aircraft           |
|               | . alkaloids                                     | RT          | HET experiment   | F-18 aircraft                            |
|               | atropine  | ATS 7       |  | F-20 aircraft                            |
|               | organic compounds                               | GS GS       | artificial satellites  | F-22 aircraft                            |
|               | . cyclic compounds heterocyclic compounds       | 00          | . gravity gradient satellites                                | F-84 aircraft                            |
|               | alkaloids                                       |             | ATS  | F-86 aircraft                            |
|               | atropine  |             | ATS 7  | F-89 aircraft<br>F-94 aircraft           |
|               |   |             | . scientific satellites                                      | F-94 aircraft                            |
| ATS           |   |             | ATS  | F-101 aircraft                           |
| UF            | Applications Technology Satellites              |             | ATS 7  | F-102 aircraft                           |
| GS            | artificial satellites                           | ATS 8       |  | F-104 aircraft                           |
|               | . gravity gradient satellites ATS               | GS          | artificial satellites  | F-105 aircraft                           |
|               | ATS 1   |             | . gravity gradient satellites                                | F-106 aircraft                           |
|               | ATS 2   |             | ATS  | F-117A aircraft                          |
|               | ATS 3   |             | ATS 8  | FV-12A aircraft<br>G-91 aircraft         |
|               | ATS 4   |             | . scientific satellites ATS                                  | G-95/4 aircraft                          |
|               | ATS 5   |             | ATS 8  | GA-5 aircraft                            |
|               | ATS 6<br>ATS 7                                  |             |  | Harrier aircraft                         |
|               | ATS 8   | attachr     |  | Jaguar aircraft                          |
|               | . scientific satellites                         | SN          | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | JAS-39 aircraft                          |
|               | ATS   |             | LISTED BELOW)  | jet provost aircraft<br>MiG aircraft     |
|               | ATS 1   | UF          | reattachment   | Mirage aircraft                          |
|               | ATS 2   | RT          | assembling   | Mirage 3 aircraft                        |
|               | ATS 3   |             | Coanda effect electron attachment                            | P-51 aircraft                            |
|               | ATS 4<br>ATS 5                                  |             | mounting   | P-1127 aircraft                          |
|               | ATS 6   |             | reattached flow  | P-1154 aircraft                          |
|               | ATS 7   |             |  | Saab 37 aircraft<br>Scimitar aircraft    |
|               | ATS 8   | attachm     |  | Vampire MK 35 aircraft                   |
| RT            | communication satellites                        | USE         | accessories  | YF-12 aircraft                           |
|               | Early Bird satellites                           | ∞ attack    |  | . AH-1S helicopter                       |
|               | meteorological satellites navigation satellites | SN          | (USE OF A MORE SPECIFIC TERM IS                              | . AH-1W helicopter                       |
|               | NAVSTAR satellites                              |             | RECOMMENDEDCONSULT THE TERMS                                 | . P-308 aircraft                         |
|               |   | RT          | LISTED BELOW) angle of attack                                | . T-2 aircraft<br>. TSR-2 aircraft       |
| ATS 1         |   |             | attacking (assaulting)                                       | RT aeroquatic vehicles                   |
| GS            | artificial satellites                           |             | chemical attack  | ∞ aircraft                               |
|               | . gravity gradient satellites                   | -44 1       | ivereft  | antisubmarine warfare aircraft           |
|               | ATS<br><b>ATS 1</b>                             | attack a    | aircraft<br>attack aircraft                                  | jet aircraft                             |
|               | ATS 1<br>. scientific satellites                | GS          | . A-1 aircraft   | ∞ military aircraft                      |
|               | ATS   |             | . A-7 aircraft   | military helicopters                     |
|               | ATS 1   |             | . A-9 aircraft   | MRCA aircraft                            |
|               |   |             | . A-10 aircraft  | supersonic aircraft<br>terrain following |
| ATS 2         |   |             | . A-37 aircraft  | V/STOL aircraft                          |
| GS            | artificial satellites                           |             | . AH-1G helicopter   |  |
|               | . gravity gradient satellites                   |             | . AH-63 helicopter   | attacking (assaulting)                   |
|               | ATS   |             | . AH-64 helicopter   | UF assaulting                            |

| GS violence                                     | inverters   | GS flight instruments  |
|---|---|--|
| . attacking (assaulting)                        | isolators   | . attitude indicators  |
| RT ∞ attack                                     | mufflers  | gyro horizons  |
| ∞ military aircraft                             | power limiters  | measuring instruments  |
| tactics   | radiation shielding                                   | . indicating instruments   |
| warfare   | reflectors  | attitude indicators  |
| Wallaro   | shielding   | gyro horizons  |
| attention                                       | silencers   | navigation aids  |
| RT alertness                                    | suppressors   | . navigation instruments   |
| consciousness                                   | supplessors   | attitude indicators  |
| 001100100011000                                 | attitude (inclination)                                |  |
| attenuation                                     | DEF The position or orientation of an air-            | gyro horizons  |
| DEF Reducing in intensity.                      |   | RT aircraft instruments  |
| GS attenuation                                  | craft, spacecraft, etc., either in motion or at rest, | control moment gyroscopes  |
| . atmospheric attenuation                       | as determined by the relationship between its         | flight control   |
| ·   | axes and some reference line or plane or some         | and the second s |
| auroral absorption . microwave attenuation      | fixed system of reference axes. Used for spatial      | attitude stability   |
|   | orientation, tilt, and tilting.                       | UF satellite attitude disturbance  |
| . sidelobe reduction                            | UF spatial orientation                                | GS dynamic characteristics   |
| . wave attenuation                              | tilt  | . dynamic stability  |
| acoustic attenuation                            | tilting   | motion stability   |
| shock wave attenuation                          | GS attitude (inclination)                             | attitude stability   |
| radar attenuation                               | . pitch (inclination)                                 | directional stability  |
| radio attenuation                               | . roll  | gyroscopic stability   |
| RT ∞ absorption                                 | . satellite orientation                               | lateral stability  |
| attenuators                                     | . yaw   | longitudinal stability   |
|   | RT horizontal orientation                             | stability  |
| damping   | instrument orientation                                | . dynamic stability  |
| diffraction                                     | misalignment  | motion stability   |
| dilution  | ∞ motion  | attitude stability   |
| dissipation                                     | ∞ orientation   | directional stability  |
| electromagnetic absorption                      | ∞ position  | gyroscopic stability   |
| electromagnetic wave transmission               | ∞ position  ∞ space orientation                       | lateral stability  |
| elimination                                     | stability augmentation                                | longitudinal stability   |
| fading  | tiltmeters  | RT aerodynamic stability   |
| impingement                                     | vertical orientation                                  |  |
| ∞ inhibition                                    | vertical orientation                                  | aircraft stability   |
| internal friction                               | attitude control                                      | Discos (satellite attitude control)  |
| light (visible radiation)                       | DEF The regulation of the attitude of an              | hovering stability   |
| mechanical impedance                            | aircraft, spacecraft, etc. Also a device or system    | low speed stability  |
| ·   |   | satellite attitude control   |
| ∞ propagation                                   | that automatically regulates and corrects atti-       | spacecraft motion  |
| ∞ reduction                                     | tude, especially of a pilotless vehicle.              | spacecraft stability   |
| retarding                                       | GS attitude control                                   | tumbling motion  |
| shielding                                       | . directional control                                 |  |
| signal fading                                   | thrust vector control                                 | attraction   |
| signal to noise ratios                          | . lateral control                                     | RT affinity  |
| sound propagation                               | . longitudinal control                                | field theory (physics)   |
| sound transmission                              | . satellite attitude control                          | ∞ force  |
| spatial filtering                               | RT air traffic control                                | gravitational fields   |
| transmission                                    | aircraft control                                      |  |
| transmission loss                               | automatic control                                     | attractors (mathematics)   |
| transmitters                                    | cold gas  | (added June 1997)  |
| vibration damping                               | ∞ control   | GS attractors (mathematics)  |
| wave degradation                                | control moment gyroscopes                             | strange attractors   |
| wave diffraction                                | flight control  | RT asymptotic properties   |
| wave dispersion                                 | guidance sensors                                      | chaos  |
| wave propagation                                | helicopter control                                    | dynamical systems  |
|   | horizon scanners                                      | nonlinear systems  |
| attenuation coefficients                        | magnetic control                                      | stochastic processes   |
| DEF A measure of the space rate of attenu-      | manual control  | trajectories   |
| ation of any transmitted electromagnetic radia- | Miranda satellite                                     | trajocionos  |
| tion.   | missile control                                       | attributes   |
| GS coefficients                                 | orbital lifetime                                      | USE properties   |
| . attenuation coefficients                      | reaction wheels                                       | OOL properties   |
| RT diffusion coefficient                        | remote control  | attrition (materials)  |
| flow coefficients                               |   | USE comminution  |
|   | rocket engine control                                 | USE COMMINICATION  |
| impedance                                       | satellite control                                     | avalla data  |
| opacity   | solar sensors   | audio data   |
| reflectance                                     | spacecraft control                                    | DEF Useful information at audio signal fre-  |
| scattering coefficients                         | spacing   | quency.  |
| transmission efficiency                         | spin stabilization                                    | RT audio frequencies   |
| transmittance                                   | star trackers   | ∞ data   |
|   | thrust control  | data transmission  |
| attenuators                                     | trajectory control                                    |  |
| DEF Devices for measuring attenuation.          | visual control  | audio equipment  |
| They are usually calibrated in dB (decibels).   |   | GS audio equipment   |
| GS attenuators                                  | attitude gyros  | . earphones  |
| . resistors                                     | DEF Gyro-operated flight instruments that             | loudspeakers   |
| potentiometers (resistors)                      | indicate the attitude of an aircraft or spacecraft    | . microphones  |
| printed resistors                               | with respect to a reference coordinate system         | RT audio visual equipment  |
| thermistors                                     | throughout 360 degrees of rotation about each         | ∞ equipment  |
| RT ∞ absorbers                                  | axis of the craft.                                    | monaural signals   |
| absorbers (materials)                           | GS gyroscopes   |  |
| attenuation                                     | . attitude gyros                                      | audio frequencies  |
| baffles   | gyro horizons   | SN (APPROXIMATELY 20 TO 20,000 HZ)   |
| deflectors                                      | RT control moment gyroscopes                          | DEF Frequencies corresponding to nor-  |
| ∞ diffusers                                     |   | mally audible sound waves.   |
| electromagnetic wave filters                    | sea keeping   | GS frequencies   |
|   | attitude indicators                                   | . acoustic frequencies   |
| equalizers (circuits)<br>∞ filters              |   |  |
|   |   | audio frequencies  |
| insulators                                      | yawmeters   | quefrencies  |

| RT acoustic measurement                                  | auditory perception  | Langmuir turbulence  |
|--|--|--|
| audio data   | RT acoustics   |  |
| audio signals  | audio frequencies<br>audiology   | Auger showers  |
| auditory perception<br>cepstral analysis                 | 6,   | (added August 1997)  |
| extremely low frequencies                                | audiometry<br>auditory sensation areas   | USE cosmic ray showers   |
| monaural signals   | binaural hearing   |  |
| noise pollution  | ear  | Auger spectroscopy   |
| radio frequencies  | earphones  | GS spectroscopy  |
| sound generators   | monaural signals   | Auger spectroscopy   |
| sound transmission                                       | noise threshold  | RT chemical analysis   |
| sound waves  | psychoacoustics  | electron transitions   |
| very low frequencies                                     | sensitivity  | spectroscopic analysis<br>thermites  |
| voice  | sound localization   | themites   |
|  | sound waves  |  |
| audio signals  DEF Signals with a bandwidth of less than | speech   | augmentation UF enhancement  |
| DEF Signals with a bandwidth of less than 20 kilohertz.  | thresholds (perception)<br>Weber test  | GS augmentation  |
| RT audio frequencies                                     | Weber test   | . stability augmentation   |
| auditory signals   |  | . thrust augmentation  |
| signal processing  | auditory sensation areas   | RT increasing  |
| signal transmission                                      | DEF In acoustics, the frequency region en-   | spatial filtering  |
| ∞ signals  | closed by the curves defining the threshold of   |  |
|  | pain and the threshold of audibility.  | AUOS   |
| audio tapes  | RT auditory perception   | USE Automatic Universal Orbiting   |
| (added February 1992)                                    | auditory stimuli   | Stations   |
| RT acoustics   | bioacoustics<br>thresholds (perception)  |  |
| audio visual material                                    | tillesiloids (perception)  | Aura spacecraft  |
| information<br>magnetic tapes                            |  | (added May 2005)   |
| ∞ tapes  | auditory signals   | DEF The third of a series of Earth Observ-   |
| video tapes  | UF chimes  | ing System (EOS) spacecraft developed to ad-   |
| video tapoo  | RT audio signals   | vance the understanding of the ways that the   |
| audio visual equipment                                   | bells  | Earth's lands, oceans, air, ice, and life function   |
| (added September 1993)                                   | cues   | as a total environmental system. Aura studies  |
| RT audio equipment                                       | horns  | the Earth's ozone, air quality and climate, and is   |
| display devices  | monaural signals   | designed exclusively to conduct research on the  |
| multimedia   | psychoacoustics<br>signal mixing   | composition, chemistry and dynamics of the   |
| training devices   | ∞ signals  | Earth's upper and lower atmosphere employing multiple instruments on a single satellite. The   |
| video equipment  | warning  | spacecraft carries four instruments: the High  |
| visual aids  | warning systems  | Resolution Dynamics Limb Sounder (HIRDLS),   |
| audio visual material                                    | 3 3, 4 4 4   | the Microwave Limb Sounder (MLS), Ozone  |
| (added September 1993)                                   |  | Monitoring Instrument (OMI), and the Tropo-  |
| RT audio tapes   | auditory stimuli   | spheric Emission Spectrometer (TES).   |
| multimedia   | GS stimulation   | GS artificial satellites   |
| visual aids  | . auditory stimuli   | . scientific satellites  |
|  | RT acoustics   | Aura spacecraft  |
| audiology  | auditory sonsation areas   | Earth Observing System (EOS)   |
| RT audiometry  | auditory sensation areas noise (sound)   | . Aura spacecraft  |
| auditory fatigue   | noise intensity  | RT Aqua spacecraft   |
| auditory perception                                      | sound generators   | CALIPSO (Pathfinder satellite)   |
| hearing  | sound intensity  | CloudSat   |
| audiometry   | ∞ stimuli  | data products Earth observations (from space)  |
| DEF The testing and measurement of hear-                 | thresholds (perception)  | remote sensing   |
| ing at various levels.                                   |  | Terra spacecraft   |
| RT acoustic measurement                                  | auditory tacks   |  |
| audiology  | auditory tasks<br>GS tasks   | Auriga constellation   |
| auditory defects   | . auditory tasks   | GS constellations  |
| auditory fatigue   | RT acoustics   | . Auriga constellation   |
| auditory perception                                      | hearing  | RT Zeta Aurigae star   |
| auditory stimuli   | noise (sound)  | <b>S</b>   |
| hearing  | (222-2)  | Aurora 7   |
| masking  |  | GS manned spacecraft   |
| ∞ measurement  | aufeis (ice)   | . Mercury spacecraft   |
| thresholds (perception)                                  | DEF Icing of ground or river water in Arctic   | Aurora 7   |
| auditory defects   | areas with continuous permafrost on which the  | reentry vehicles   |
| UF deafness  | water has continued to flow.   | . recoverable spacecraft   |
| hearing loss   | RT ice   | . Mercury spacecraft   |
| GS defects   | melting<br>permafrost  | Aurora 7   |
| . auditory defects                                       | rivers   | soft landing spacecraft  |
| RT audiometry  | 114613   | . Mercury spacecraft   |
| bioacoustics   |  | Aurora 7   |
| disabilities   | Auger effect   | space capsules   |
| losses   | DEF The nonradiative transition of an atom   | . Mercury spacecraft<br><b>Aurora 7</b>  |
| No. of the   | from an excited electronic energy state to a   | RT Mercury MA-7 flight   |
| auditory fatigue   | lower state with the emission of an electron. The  | TEL INICIOUTY WIA-7 HIGHT  |
| GS fatigue (biology)                                     | term usually refers to the x ray region of energy  | assembly allowing the same the same than the |
| . auditory fatigue                                       | states. The final state corresponds to one higher  | auroral absorption   |
| RT audiology   | degree of ionization than does the initial state.  | GS attenuation   |
| audiometry   | The effect is an alternative process to the tran-  | . atmospheric attenuation  |
| hearing<br>noise threshold                               | sition to a lower state having the same degree of ionization with the emission of an x ray photon, | <b>auroral absorption</b><br>energy absorption   |
| HOISE WHESHOW  | and thus is analogous to the internal conversion   | . radiation absorption   |
| auditory perception                                      | of a nuclear transmission.   | electromagnetic absorption   |
| UF sound perception                                      | RT cosmic ray showers  | auroral absorption   |
| GS perception  | ∞ effects  | RT ∞ absorption  |
| . sensory perception                                     | electron transitions   | light emission   |
| - · ·  |  | <del>-</del>   |

riometers tudes. Used for auroral activity and polar auro-... australites RT bediasites UF auroral activity auroral activity USE auroras polar auroras Austria nations GS atmospheric radiation GS Austria auroral arcs . auroras . . auroral arcs Alps Mountains (Europe) GS atmospheric radiation . . . red arcs Austrian space program auroras . . auroral arcs . . radio auroras Central Europe aeronomy Europe RT . . red arcs airglow RT ∞ arcs Austrian space program (added October 1990) auroral ionization auroral irradiation auroral echoes GS programs auroral temperature echoes GS space programs auroral zones auroral echoes . . European space programs dawn chorus radar echoes Earth atmosphere . . Austrian space program radio echoes electron precipitation Austria ESRO 4 satellite auroral electrojets autocatalysis light emission GS electric current GS catalysis magnetic disturbances . ionospheric currents autocatalysis night sky Polar/GGS spacecraft . electrojets abiogenesis catalytic activity . . auroral electrojets proton precipitation electricity reaction kinetics sky brightness . atmospheric electricity solar activity . . ionospheric currents autoclaves . . electrojets x rays RT autoclaving . auroral electrojets chemical reactors ausforming RT Birkeland currents ∞ containers forming techniques equatorial electrojet GS pressure vessels . hot working telluric currents . ausforming autoclaving metal working auroral ionization autoclaves ausforming GS ionization curing RT forging . gas ionization heating ∞ rolling .  $\bar{.}$  atmospheric ionization leaching ... auroral ionization powder metallurgy austenite auroras DEF A solid solution of carbon in gammaexcitation autocoders iron light emission GS languages RT allotropy photoionization . programming languages ferrites red arcs . . Assembly language iron alloys . . autocoders martensite compilers auroral irradiation martensitic transformation computer programming irradiation GS microstructure computer systems programs auroral irradiation steels machine oriented languages auroras RT electron irradiation austenitic stainless steels autocollimators excitation Steels having at room temperature a USE collimators ion irradiation microstructure consisting, at least predomiphotoionization nantly, of austenite. Their austenitic microstrucautocorrelation ture is attained above all by alloying conditions, In statistics, the simple linear internal auroral spectroscopy correlation of members of a time series (ordered e.g., manganese and nickel. spectroscopy GS alloys in time or other domains). auroral spectroscopy . iron alloys correlation GS channel multipliers . . steels autocorrelation Fabry-Perot spectrometers . . . stainless steels cross correlation light emission . . . austenitic stainless steels data correlation optical emission spectroscopy martensitic stainless steels Fourier analysis spectroscopic analysis time temperature parameter periodic variations visible spectrum time series analysis Austin comet auroral temperature (added May 1991) autodynes GS temperature GS celestial bodies GS circuits . atmospheric temperature . comets . autodynes . auroral temperature . . Austin comet oscillators RT auroras . autodynes ion temperature Australia  $RT \infty$  detectors ionospheric temperature GS continents frequency control . Australia heterodyning auroral zones nations signal analyzers DEF Roughly circular bands around either Australia signal detection geomagnetic pole above which there is a maxi-Australian space program signal detectors mum of auroral activity. The zones lie about 10 Papua New Guinea vacuum tube oscillators deg. to 15 deg. of geomagnetic latitude from the Tasmania geomagnetic poles. Torres Strait autogyros GS regions GS V/STOL aircraft auroral zones Australian space program . rotary wing aircraft (added February 1989) auroras . . autogyros Birkeland currents programs ... Avian 2/180 autogiro IMAGE satellite space programs magnetic poles Australian space program autoianition Pedersen currents (added April 1997) Australia spontaneous combustion polar radio blackout USE polar regions australites celestial bodies autoionization GS GS dissociation . meteorites

. . stony meteorites

. . . tektites

. autoionization

ionization

DEF

Sporadic radiant emissions from the

upper atmosphere over middle and high lati-

. autoionization

atomic collisions many electron effects

### autokinesis

perception GS

. sensory perception

. . proprioception

... autokinesis

. . visual perception

... space perception

.... autokinesis

## automata theory

RT adaptive control artificial intelligence

∞ automation

bionics

cellular automata

computers cybernetics

depersonalization

heuristic methods

information theory

machine learning

model reference adaptive control

robotics

robots

self adaptive control systems

∞ theories

Turing machines

### automated en route ATC

An air traffic control technology which allows computers to make decisions about conflict resolution, the generation of clearances, and their automatic transmission, with the operator standing by to take over in an emergency.

GS ground based control

. air traffic control

. automated en route ATC

traffic control

. air traffic control

automated en route ATC

aircraft guidance

approach control

automated pilot advisory system

flight control

ground-air-ground communication microwave landing systems

## automated guideway transit vehicles

A system of a large number of captive vehicles traveling at relatively close headways on an exclusive guideway controlled by a computer. Used for AGT. UF AGT

GS surface vehicles

. automated transit vehicles

### . . automated guideway transit vehicles

RT automated mixed traffic vehicles

conveyors passengers

rail transportation

rapid transit systems

transportation

urban transportation

∞ vehicles

## automated mixed traffic vehicles

DEF Low speed, surface vehicles automatically operated and controlled in a pedestrian environment by following a buried wire in the roadways sensing obstacles and stopping at predetermined spots for passenger exit and entry. Used for AMTV.

**AMTV** 

GS research vehicles

. automated mixed traffic vehicles surface vehicles

. motor vehicles

. automated mixed traffic vehicles

automated guideway transit vehicles passengers urban transportation

∞ vehicles

## automated pilot advisory system

DEF An airport advisory system and an air

traffic advisory system designed to improve airport and air traffic advisories at high density uncontrolled airports.

air traffic control

automated en route ATC automatic traffic advisory and resolution

∞ systems

## automated radar terminal system

Radar tracking system for use in a terminal area. Primary and secondary radar targets are detected and data for the two are correlated for transmission to a central com-

air traffic control radar equipment radar tracking ∞ systems

## **Automated Transfer Vehicle**

(added December 1995)

Ariane 5 launch vehicle cargo spacecraft Columbus space station rendezvous guidance space logistics ∞ vehicles

#### automated transit vehicles

surface vehicles

#### . automated transit vehicles

. . automated guideway transit

vehicles

conveyors

electric motor vehicles

passengers rail transportation

rapid transit systems

transportation

urban transportation

## automatic control

Control of devices and equipment, including aerospace vehicles by automatic means. Used for self regulating.

self regulating

#### automatic control GS

. adaptive control

. . active control

. . model reference adaptive control

. self adaptive control systems

. automatic flight control
. automatic landing control

automatic frequency control

automatic gain control

dynamic control

. feedback control

. . cascade control . feedforward control . numerical control

off-on control

. optimal control . . H-2 control

. . H-infinity control

linear quadratic Gaussian control

time optimal control

proportional control sequential control

aircraft control

attitude control

∞ automation

autonomous docking combustion control

control equipment

control systems design controllers

depersonalization

directional control dynamic characteristics

electric control electronic aircraft

electronic control

engine control environmental control

flight control ground based control guidance (motion)

helicopter control hydraulic control ∞ instruments

jet control landing instruments lateral control longitudinal control

manual control measuring instruments

missile control negative feedback optical control pneumatic control radio control real time operation recording instruments reentry guidance

regulators relief valves

remote control robotics

rocket engine control sampled data systems satellite attitude control satellite control satellite guidance self absorption

self alignment servocontrol servomechanisms servomotors spacecraft control spacecraft guidance

speed control stability augmentation

temperature control Terminal Configured Vehicle Program

thermostats thrust vector control tracking problem transfer functions turbojet engine control

## automatic control valves

control equipment

regulators

## . . automatic control valves

. . . pressure regulators

. relief valves

valves

. automatic control valves

. . pressure regulators

relief valves

RT actuators

 $\infty$  control

dampers (valves)

dynamic characteristics

fluid amplifiers

fluid switching elements

solenoid valves

gas valves hydraulic equipment pneumatic control servomechanisms

temperature control automatic data processing USE data processing

automatic flight control AFCS (control system)

automatic control . automatic flight control

. . automatic landing control flight control

. automatic flight control automatic landing control

RT aircraft control aircraft instruments autonomous navigation

 $\infty$  control

distance measuring equipment flight management systems highly maneuverable aircraft

missile control navigation navigation aids radar navigation radio navigation solar compasses Terminal Configured Vehicle Program thrust vector control

automatic frequency control

An arrangement whereby the frequency of an oscillator is automatically maintained within specified limits. Used for AFC (control).

UF AFC (control)

GS automatic control

automatic frequency control frequency control

automatic frequency control

 $RT \, \infty \, control$ 

feedback control frequency modulation oscillators tuning

automatic gain control

DEF A process by which gain is automatically adjusted as a function of input or other specified parameter. Used for AGC (control).

UF AGC (control)

GS

automatic control . automatic gain control

antenna gain

ocontrol feedback control tuning

automatic indexing (added April 2000)

USE indexing (information science)

## automatic landing control

automatic control

. automatic flight control

. automatic landing control flight control

. automatic flight control

. automatic landing control

airborne equipment aircraft equipment

blind landing distance measuring equipment flight management systems instrument landing systems microwave landing systems

Terminal Configured Vehicle Program

automatic pattern recognition USE pattern recognition

## automatic picture transmission

APT (picture transmission)

GS telecommunication

- . communication
- . . facsimile communication
- . . automatic picture transmission

transmission

- . signal transmission
- . . data transmission

. . automatic picture transmission

television transmission wave propagation

## automatic pilots

DEF Equipment which automatically stabilizes the attitude of a vehicle about its pitch, roll, and yaw axes. Used for autopilots.

autopilots

GS aircraft instruments

. automatic pilots

flight instruments

. automatic pilots

aircraft equipment flight control

gyroscopes highly maneuverable aircraft homina

landing aids navigation aids

pilot support systems ∞ pilots

radio altimeters

solar compasses

automatic repeat query

USE automatic repeat request

### automatic repeat request

(added August 1991)

DEF A request from a receiving device to retransmit the most recent block of data.

ARQ (communication) automatic repeat query

automatic request for retransmission

data transmission

error correcting codes

error signals

message processing

messages

packet transmission . telecommunication

automatic request for retransmission

USE automatic repeat request

automatic rocket impact predictors
USE computerized simulation

impact prediction

### automatic test equipment

RT ∞ equipment measuring instruments

self tests

sneak circuit analysis

 $\infty \ test \ equipment$ 

## automatic traffic advisory and resolution

(AUTOMATIC TRAFFIC ADVISORY AND RESOLUTION SERVICE)
Ground based collision avoidance system using the surveillance and data link capabilities of the discrete address beacon system (DABS). Used for ATARS.

**ATARS** UF

RT automated pilot advisory system collision avoidance ground based control

navigation aids resolution ∞ systems

## automatic typewriters

Flexowriters (trademark)

typewriters

automatic typewriters

consoles

display devices

printers (data processing)

punched tapes

## **Automatic Universal Orbiting Stations**

(added September 1994) UF AUOS

artificial satellites

. space stations

. Automatic Universal Orbiting Stations

stations

. space stations

... Automatic Universal Orbiting Stations

RT ∞ platforms

Russian Federation spacecraft environments U.S.S.R. space program

## automatic weather stations

DEF Weather stations at which the services of observers are not required. They are usually equipped with telemetric apparatus.

stations

. weather stations

remote sensors

#### . automatic weather stations RT

data acquisition data collection platforms instrument packages meteorological services ocean data acquisitions systems GS algebra . group theory

. . homomorphisms

... automorphisms

weather data recorders

instrumental analysis

command and control

control systems design

automata theory

computer vision

data processing

depersonalization

fail-safe systems

feedback control

feedforward control

information theory

materials handling

office automation

self erecting devices

self repairing devices servomechanisms

systems engineering

. automobile accidents

accident investigation

RT external combustion engines

internal combustion engines

accident prevention

safety devices

piston engines

rotary engines

Stirling engines

turbine engines

Wankel engines

. automobile fuels

antiknock additives

hydrocarbon fuels

surface vehicles

. motor vehicles

. . automobiles

antiskid devices

fuel systems

hydrogen engines

lubrication systems

ignition systems

∞ military vehicles

trailers

trucks

∞ vehicles

automorphisms

chassis

internal combustion engines

. electric automobiles

air bag restraint devices

electric hybrid vehicles

electric motor vehicles

aircraft fuels

diesel fuels

gasoline

liquid fuels

synthane

jeeps

mechanization numerical control

remote control

robotics

tooling

automobile accidents

automobile engines

automobile fuels

GS fuels

automobiles

GS

accidents

man machine systems

computers

controllers

cybernetics

automatic control

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

automation

RT

## autonomic nervous system

anatomy

. nervous system

#### . . autonomic nervous system RT autoregressive processes ground support equipment . . sympathetic nervous system estimating ∞ power supplies involuntary actions IIR filters spacecraft power supplies ∞ systems regression analysis voltage converters (AC to AC) stochastic processes voltage converters (DC to DC) autonomous docking time series analysis (added May 2005) auxiliary propulsion DEF Automatic, self-controlled docking enautoregressive processes GS propulsion abled through the use of specialized hardware, RT autoregressive moving average auxiliary propulsion sensors, and algorithms for navigation, guidfactor analysis aeronautical engineering ance, and positioning. ∞ astronautics ∞ processes GS maneuvers regression analysis engines . docking statistical analysis hydrogen oxygen engines . autonomous docking Marquardt R4D engine automatic control autorotation missiles autonomous navigation A rotorcraft flight condition in which the propellants interception lifting rotor is driven entirely by action of the air propulsion system configurations mooring when the rotorcraft is in motion. rocket propellants orbital rendezvous windmilling space flight GS gyration rendezvous guidance space shuttles space rendezvous . rotation space station propulsion space stations . autorotation ∞ spacecraft spacecraft docking rotary wing aircraft thrust spacecraft docking spacecraft guidance terminal guidance rotochutes auxins unmanned spacecraft autotrophs (added August 2004) Organisms capable of synthesizing or-Plant hormones which promote tissue ganic nutrients directly from simple inorganic growth through cell elongation rather than mulautonomous navigation GS navigation substances such as carbon dioxide and inortiplication. ganic nitrogen. . autonomous navigation GS plant growth regulators automatic flight control autonomous docking GS autotrophs auxins hydrogenomonas gravitropism celestial navigation heterotrophs RT plant physiology Deep Space 1 Mission plant roots navigation aids plants (botany) The season of the year between sumnavigation instruments mer and winter. Its beginning is marked by the AV-8A aircraft satellite navigation systems autumnal equinox and its end by the winter USE Harrier aircraft space navigation solstice. spacecraft guidance AV-8B aircraft unmanned ground vehicles GS seasons . autumn USE Harrier aircraft autonomous spacecraft clocks DEF Standard Time scale instruments RT spring (season) summer availability GS availability aboard spacecraft with provisions for synchroniwinter . bioavailability zation with existing satellite-based system (gloabundance auxiliary equipment (computers) bal positioning system, for example). energy policy USE peripheral equipment (computers) GS measuring instruments reserves . time measuring instruments auxiliary power sources . . clocks resources GS auxiliary power sources . . autonomous spacecraft clocks . chemical auxiliary power units avalanche diodes atomic clocks . nuclear auxiliary power units A solid state device that takes advan-Global Positioning System .. SNAP tage of avalanche multiplication of the photocurspacecraft instruments ... fission electric cells TDR satellites rent. .... SNAP 2 IMPATT diodes SNAP 4 TRAPATT diodes autonomy .... SNAP 8 Zener diodes RT adaptive control SNAP 10A electronic equipment command and control SNAP 1 . diodes ∞ commands ∞ direction SNAP 3 . . semiconductor diodes equations of motion SNAP 7 . . . avalanche diodes SNAP 9A . cryosar management SNAP 11 model reference adaptive control . solid state devices SNAP 13 . . semiconductor devices self adaptive control systems SNAP 15 . . . avalanche diodes SNAP 17 autopilots . cryosar SNAP 19 rectifiers USE automatic pilots SNAP 21 . avalanche diodes autopsies SNAP 23 . cryosar dissection SNAP 27 RT Barritt diodes pathology SNAP 29 ion implantation SNAP 50 negative conductance TRAPATT devices autoradiography . . space power reactors DEF A technique that uses x ray film to . . . fission electric cells voltage regulators visualize radioactivly labeled molecules or frag-.... SNAP 2 ments of molecules used in analyzing the length .... SNAP 4 avalanches and number of DNA fragements separated by SNAP 8 GS avalanches gel electrophoresis. .... SNAP 10A GS imagery ... SNAP 50 . photography ... space power unit reactors . autoradiography . solar auxiliary power units . . ASTEC solar turboelectric . radiography autoradiography generator aircraft power supplies RT black and white photography direct power generators **AVCS** autoregressive moving average electric batteries

electric generators

electric power supplies

∞ electric power

∞ energy sources

(added October 1997)

average

GS

ARMA (mathematics)

. autoregressive moving average

. electron avalanche Townsend avalanche Earth movements electric discharges ion production rates ionizing radiation USE **Advanced Vidicon Camera System** (AVCS) average GS average 83

# Avian 2/180 autogiro

|              | autorogrossivo moving avorago                   |          | video landmark acquisition and            |             | dynamic loads                            |
|--------------|---|----------|---|-------------|--|
|              | . autoregressive moving average . mean          |          | video landmark acquisition and tracking   |             | shock loads                              |
| RT           | distribution moments                            |          | tracking                                  |             | static loads                             |
| IXI          | median (statistics)                             | avoida   | nce                                       |             | structural design criteria               |
|              | mode (statistics)                               | GS       | avoidance                                 |             | thrust loads                             |
|              | normality                                       |          | . collision avoidance                     |             | till dat loads                           |
|              | norms   |          | Beacon Collision Avoidance                | axial co    | mpressors                                |
|              | quality control                                 |          | System                                    |             | turbocompressors                         |
|              | Reynolds averaging                              |          | . vortex avoidance                        |             | •  |
|              | , , ,   | RT       | accident prevention                       | axial flo   |  |
| <b>AVHRR</b> |   |          | hazards                                   | GS          |  |
| USE          | Advanced Very High Resolution                   |          | traffic                                   | 5.7         | . axial flow                             |
|              | Radiometer                                      |          | traffic control                           | RT          | annular flow                             |
|              | 400 - 4 - 1 -                                   |          | warning systems                           |             | axisymmetric flow coaxial flow           |
|              | /180 autogiro research vehicles                 | AVPO     | 698 aircraft                              |             | coaxial nozzles                          |
| 03           | . research aircraft                             |          | Vulcan aircraft                           |             | counterflow                              |
|              | Avian 2/180 autogiro                            | 002      |   |             | discharge coefficient                    |
|              | V/STOL aircraft                                 | AVRO 1   | 707 aircraft                              |             | flow geometry                            |
|              | . rotary wing aircraft                          | GS       | Hawker Siddeley aircraft                  |             | one dimensional flow                     |
|              | autogyros                                       |          | . AVRO 707 aircraft                       |             | radial flow                              |
|              | Avian 2/180 autogiro                            |          | jet aircraft                              |             | three dimensional flow                   |
|              |   |          | . AVRO 707 aircraft                       |             | two dimensional flow                     |
| aviation     |   |          | monoplanes                                | :           |  |
| USE          | aeronautics                                     |          | . AVRO 707 aircraft research vehicles     |             | w compressors<br>turbocompressors        |
| audatia m    | mataaralaari                                    |          | . research aircraft                       | USE         | turbocompressors                         |
|              | meteorology Weather conditions and meteorologi- |          | AVRO 707 aircraft                         | axial flo   | ow pumps                                 |
|              | es pertaining to aeronautics.                   |          | tailless aircraft                         |             | pumps                                    |
|              | meteorology                                     |          | . AVRO 707 aircraft                       |             | axial flow pumps                         |
|              | . aviation meteorology                          | RT «     | ∞ aircraft                                |             | turbine pumps                            |
| RT           | aircraft accident investigation                 |          | delta wings                               | RT          | centrifugal pumps                        |
|              | aircraft accidents                              |          | Vulcan aircraft                           |             | fuel pumps                               |
|              | aircraft hazards                                |          |   | and all fla | to obline                                |
|              | aircraft icing                                  |          | Whitworth HS-748 aircraft                 |             | ow turbines                              |
|              | atmospheric turbulence                          | USE      | HS-748 aircraft                           | GS          | turbomachinery . turbines                |
|              | civil aviation                                  | AWAC:    | S aircraft                                |             | axial flow turbines                      |
|              | clear air turbulence                            |          | Airborne Warning and Control System       | RT          | gas turbine engines                      |
|              | downbursts                                      |          | AWACS aircraft                            |             | gas turbines                             |
|              | flight conditions<br>flight hazards             |          | . E-2 aircraft                            |             | steam turbines                           |
|              | flight safety                                   |          | . E-3A aircraft                           |             |  |
|              | fog   |          | . E-4A aircraft                           | axial lo    |  |
|              | meteorological parameters                       | RT «     | ∞ aircraft                                | GS          | loads (forces)                           |
|              | meteorological services                         |          | Boeing aircraft                           |             | . axial loads                            |
|              | microbursts (meteorology)                       |          | command and control                       | рт          | axial compression loads                  |
| ∞            | military aviation                               |          | early warning systems                     | RT          | aerodynamic loads<br>compression loads   |
|              | nowcasting                                      |          | Grumman aircraft<br>∞ military aircraft   |             | dynamic loads                            |
|              | numerical weather forecasting                   |          | military technology                       |             | static loads                             |
|              | runway conditions                               |          | military teermology                       |             | structural design criteria               |
|              | wind shear                                      | awards   | i e                                       |             | thrust loads                             |
| aviation     | nevehology                                      | SN       | (EXCLUDES CONTACTS & GRANTS)              |             |  |
|              | psychology<br>medical science                   | DEF      | Distinctions that are bestowed upon a     | axial m     |  |
| 00           | . aerospace medicine                            |          | or persons due to their special contribu- | DEF         | Regimes of vibration along a given       |
|              | aviation psychology                             | tions to |   | axis.       |  |
|              | psychology                                      | RT       | astronauts                                | GS          | modes                                    |
|              | . aviation psychology                           |          | biography                                 | DT          | . axial modes                            |
| RT           | aircraft pilots                                 |          | engineers<br>scientists                   | KI          | combustion stability laser modes         |
|              | military psychology                             |          | Scientists                                |             | propellant combustion                    |
|              | pilot training                                  | AXAF     |   |             | rocket engines                           |
|              | psychological effects                           | USE      | X Ray Astrophysics Facility               |             | Tooker enginee                           |
|              | psychological factors                           |          |   | axial st    | rain                                     |
|              | space psychology                                |          | oordinates)                               | DEF         |  |
| aviators     |   | USE      | coordinates                               |             | inal axis of the specimen. Used for axi- |
| USE          | aircraft pilots                                 | avas (r  | eference lines)                           |             | ric deformation and uniaxial strain.     |
| 002          | un orant prioto                                 |          | axes (reference lines)                    | UF          | axisymmetric deformation                 |
| avionics     | 5   | 00       | . axes of rotation                        | GS          | uniaxial strain deformation              |
| DEF          | The use of electronics in all its forms in      |          | Earth axis                                | GS          | . axial strain                           |
|              | or aerospace vehicles.                          | RT       | coordinates                               | RT          | elastic deformation                      |
| RT ∝         | aeronautics                                     |          |   | 13.1        | Euler-Bernoulli beams                    |
|              | airborne equipment                              |          | rotation                                  |             | stress-strain diagrams                   |
|              | aircraft communication                          | GS       | axes (reference lines)                    |             | structural strain                        |
|              | aircraft equipment                              |          | . axes of rotation                        |             |  |
|              | aircraft instruments                            | DT       | Earth axis                                | axial st    |  |
|              | astrionics<br>astronautics                      | RT       | bodies of revolution                      | GS          | stresses                                 |
|              | control   |          | rotating bodies rotation                  | DT          | . axial stress                           |
|              | electronics                                     |          | shafts (machine elements)                 | RT          | tensile stress                           |
| ~            | flat panel displays                             |          | symmetrical bodies                        | axioms      |  |
|              | flight management systems                       |          | .,  | UF          | postulates                               |
|              | guidance (motion)                               | axial co | ompression loads                          | GS          | mathematical logic                       |
|              | head-up displays                                | GS       | loads (forces)                            |             | . axioms                                 |
|              | modularity                                      |          | . axial loads                             | RT          | knowledge                                |
|              | pilot support systems                           |          | axial compression loads                   |             | ∘ logic                                  |
|              | self tests                                      |          | . compression loads                       | ۰           | o mathematics                            |
|              | single event upsets                             |          | axial compression loads                   | _           | and the Reserve                          |
|              | systems integration                             | RT       | aerodynamic loads                         |             | metric bodies                            |
| ~            | test equipment                                  |          | compressing                               | GS          | symmetrical bodies                       |

|         | . axisymmetric bodies            | GS       | nations                               | RT      | dyes                                    |
|---------|----------------------------------|----------|---------------------------------------|---------|---|
|         | power law bodies                 | 65       | . Azerbaijan                          | IXI     | uyes                                    |
| рт      | blunt bodies                     | RT       | •                                     | azo co  | mpounds                                 |
| RT      | bidit bodies                     | KI       | Asia                                  | GS      | nitrogen compounds                      |
| c       |                                  |          | Europe                                |         | . azo compounds                         |
|         | bodies of revolution             |          |                                       |         | HMX                                     |
|         | conical bodies                   |          | (inorganic)                           |         | RDX                                     |
|         | ducted bodies                    | GS       | nitrogen compounds                    | RT a    | ∞ chemical compounds                    |
|         | lenticular bodies                |          | . azides (inorganic)                  | 101     | dyes                                    |
|         | missile bodies                   |          | . hydrogen azides                     |         | uyes                                    |
|         | slender bodies                   |          | sodium azides                         | azoles  |   |
|         | slender cones                    |          |                                       | DEF     | Compounds that contain a five-          |
|         | streamlined bodies               | azidas   | (organic)                             | membe   | ered heterocylic ring containing one or |
|         |                                  | GS       | nitrogen compounds                    |         | itrogen atoms.                          |
| axisymi | metric deformation               | GS       |                                       | GS      | organic compounds                       |
| UŚE     | axial strain                     |          | azides (organic)                      | -       | . cyclic compounds                      |
|         |                                  |          | sodium azides                         |         | heterocyclic compounds                  |
| axisvm  | metric flow                      |          | triaminoguanidinium azide             |         | azoles                                  |
| GS      | fluid flow                       | RT       | explosives                            |         | acetazolamide                           |
| -       | . axisymmetric flow              |          |                                       |         | oxazole                                 |
|         | annular flow                     | azimut   | h                                     |         |   |
|         | Karman-Bodewadt flow             | DEF      | Horizontal direction or bearing. Used |         | pyrroles                                |
| RT      | axial flow                       | for sola | r azimuth.                            |         | carbazoles                              |
| IXI     | coaxial flow                     | UF       | solar azimuth                         | Azores  |   |
|         |                                  | RT       | altitude                              |         | led July 1991)                          |
|         | conical flow                     | 131      | angles (geometry)                     | GS      | landforms                               |
|         | Couette flow                     |          | astronomical coordinates              | 00      | . islands                               |
|         | Crocco method                    |          | bearing (direction)                   |         | Azores                                  |
|         | cylindrical waves                |          | 9 ( )                                 |         | nations                                 |
|         | flow geometry                    |          | celestial reference systems           |         |   |
|         | helical flow                     | •        | ∞ direction                           |         | . Portugal                              |
|         | three dimensional boundary layer |          | elevation angle                       | DT      | Azores                                  |
|         |                                  |          | look angles (tracking)                | RT      | Atlantic Ocean                          |
| axisymi | metry                            |          | navigation                            | Azotob  | pacter                                  |
| USE     | symmetry                         | •        | ∞ orientation                         | GS      | microorganisms                          |
|         |                                  |          | position (location)                   | 00      | . bacteria                              |
| axles   |                                  |          |                                       |         | Azotobacter                             |
| USE     | shafts (machine elements)        | azines   |                                       |         | Azotobactei                             |
|         | ,                                | GS       | organic compounds                     | azulen  | e                                       |
| axons   |                                  |          | . cyclic compounds                    | GS      | organic compounds                       |
| GS      | cells (biology)                  |          | heterocyclic compounds                |         | . cyclic compounds                      |
|         | . neurons                        |          | azines                                |         | heterocyclic compounds                  |
|         | axons                            |          | cyanurates                            |         | azulene                                 |
| RT      | myelin sheath                    |          | cyanuric acid                         |         | terpenes                                |
| 111     | nerve fibers                     |          | meclizine                             |         | . azulene                               |
|         | neurotransmitters                |          | methylene blue                        |         |   |
|         | neurotransmitters                |          | •                                     | Azur sa | atellite                                |
| ozootro | unaa.                            |          | phenothiazines                        | GS      | artificial satellites                   |
| azeotro | -                                |          | pyrazines                             |         | . scientific satellites                 |
| RT      | binary mixtures                  |          | . azines                              |         | Azur satellite                          |
|         | mixtures                         |          | cyanurates                            | RT      | European space programs                 |
|         | solutions                        |          | cyanuric acid                         |         | international cooperation               |
|         |                                  |          | meclizine                             |         | West Germany                            |
| Azerba  |                                  |          | methylene blue                        |         |   |
| (add    | ed August 1993)                  |          | nhenothiazines                        |         |   |

| B stars                                     | . bomber aircraft                              | . copper alloys                                      |
|---|--|--|
| UF helium stars                             | B-52 aircraft                                  | babbitt metal  |
| GS celestial bodies                         | Boeing aircraft                                | . tin alloys   |
| . stars                                     | . B-52 aircraft                                | babbitt metal  |
| early stars                                 | jet aircraft                                   | RT bearing alloys                                    |
| hot stars                                   | B-52 aircraft                                  | h-h  |
| B stars                                     | monoplanes                                     | baboons  |
| shell stars                                 | . B-52 aircraft                                | GS animals   |
| Sigma Orionis                               | RT ∞ aircraft                                  | . vertebrates  |
| RT blue stars                               | Pegasus air-launched booster                   | mammals  |
| Herbig-Haro objects                         | turbofan engines                               | primates   |
| limb brightening                            | B FT stores                                    | baboons  |
| limb darkening                              | B-57 aircraft                                  | BAC 111 aircraft                                     |
| peculiar stars                              | UF Canberra bomber                             |  |
| Population I stars                          | RB-57 aircraft                                 | GS BAC aircraft<br>. <b>BAC 111 aircraft</b>         |
| stellar composition                         | GS attack aircraft                             | jet aircraft   |
| Wolf-Rayet stars                            | . bomber aircraft                              | . turbofan aircraft                                  |
| D.4 -ift                                    | B-57 aircraft                                  | BAC 111 aircraft                                     |
| B-1 aircraft                                | jet aircraft                                   | monoplanes   |
| GS attack aircraft                          | . B-57 aircraft                                | . BAC 111 aircraft                                   |
| . bomber aircraft                           | Martin aircraft                                |  |
| B-1 aircraft                                | . B-57 aircraft                                | passenger aircraft<br>. <b>BAC 111 aircraft</b>      |
| jet aircraft                                | monoplanes                                     | transport aircraft                                   |
| . B-1 aircraft                              | . <b>B-57 aircraft</b><br>RT ∞ aircraft        | . BAC 111 aircraft                                   |
| North American aircraft                     |  | RT ∞ aircraft  |
| . B-1 aircraft                              | Canberra aircraft                              | KT ∞ alicialt  |
| RT ∞ aircraft                               | B-58 aircraft                                  | BAC aircraft   |
| bombing equipment                           |  | UF British Aircraft Corp aircraft                    |
| bombs (ordnance)                            | UF Hustler aircraft GS attack aircraft         | GS BAC aircraft                                      |
| combat                                      | . bomber aircraft                              | . BAC 111 aircraft                                   |
| ∞ military aircraft                         | B-58 aircraft                                  | . Canberra aircraft                                  |
| multiengine vehicles                        | General Dynamics aircraft                      | . H-126 aircraft                                     |
| warfare                                     | . B-58 aircraft                                | . jet provost aircraft                               |
| ∞ winged vehicles                           | jet aircraft                                   | . Scimitar aircraft                                  |
| B-2 aircraft                                | •  | . TSR-2 aircraft                                     |
|   | . B-58 aircraft                                | . Valiant aircraft                                   |
| (added September 1992)<br>UF stealth bomber | monoplanes<br>. <b>B-58 aircraft</b>           | . VC-10 aircraft                                     |
|   |  | . Viscount aircraft                                  |
| GS attack aircraft                          | supersonic aircraft                            | RT ∞ aircraft  |
| . bomber aircraft                           | . B-58 aircraft                                | KT ∞ alicialt  |
| B-2 aircraft                                | tailless aircraft<br>. <b>B-58 aircraft</b>    | BAC TSR 2 aircraft                                   |
| jet aircraft                                |  | USE TSR-2 aircraft                                   |
| . B-2 aircraft                              | RT ∞ aircraft                                  | OOL ISK-Z all clait                                  |
| RT ∞ aircraft                               | B-66 aircraft                                  | Bacillus   |
| ∞ military aircraft                         | UF Destroyer aircraft                          | SN (RESTRICTED TO MEMBERS OF THE                     |
| stealth technology                          | RB-66 aircraft                                 | GENUS BACILLUS; DOES NOT INCLUDE                     |
| X-36 aircraft                               | GS attack aircraft                             | GENERAL MORPHOLOGICAL                                |
| B-26 aircraft                               | . bomber aircraft                              | CLASSIFICATIONS) GS microorganisms                   |
| UF Invader aircraft                         | B-66 aircraft                                  | GS microorganisms . bacteria                         |
| GS attack aircraft                          | jet aircraft                                   |  |
| . bomber aircraft                           | . B-66 aircraft                                | Bacillus   |
| B-26 aircraft                               | McDonnell Douglas aircraft                     | stearothermophilus                                   |
| Martin aircraft                             | . Douglas aircraft                             | back injuries  |
| . B-26 aircraft                             | B-66 aircraft                                  | GS injuries  |
|   |  | . back injuries                                      |
| monoplanes<br>. <b>B-26 aircraft</b>        | monoplanes<br>. <b>B-66 aircraft</b>           | RT spinal cord injuries                              |
| RT ∞ aircraft                               | RT ∞ aircraft                                  | whiplash injuries                                    |
| ICI ∞ aliciali                              | I(I ∞ allorali                                 | wiipiasii iiijailes                                  |
| B-47 aircraft                               | B-70 aircraft                                  | backfire   |
| UF RB-47 aircraft                           | UF Valkyrie aircraft                           | RT combustion  |
| Stratojet aircraft                          | XB-70 aircraft                                 | deflagration   |
| XB-47 aircraft                              | GS attack aircraft                             | explosions   |
| GS attack aircraft                          | . bomber aircraft                              | fires  |
| . bomber aircraft                           | B-70 aircraft                                  | flame deflectors                                     |
| B-47 aircraft                               | jet aircraft                                   | flame propagation                                    |
| Boeing aircraft                             | . B-70 aircraft                                | flashback  |
| . B-47 aircraft                             | monoplanes                                     | liastiback   |
| jet aircraft                                | . B-70 aircraft                                | backfire antennas                                    |
| . B-47 aircraft                             | North American aircraft                        | DEF Antennas consisting of radiating feeds,          |
| monoplanes                                  | . B-70 aircraft                                | reflector elements, and reflecting surfaces such     |
| . B-47 aircraft                             | research vehicles                              | that the antennas function as open resonators,       |
| RT ∞ aircraft                               | . research aircraft                            | with radiation from the open end of the resona-      |
| N1 ∞ allicialit                             | B-70 aircraft                                  | tor.   |
| B-50 aircraft                               | supersonic aircraft                            | GS antennas  |
| UF RB-50 aircraft                           | . B-70 aircraft                                | . backfire antennas                                  |
| superfortress aircraft                      |  | RT antenna radiation patterns                        |
| GS attack aircraft                          | RT ∞ aircraft                                  | dipole antennas                                      |
| . bomber aircraft                           | B-103 aircraft                                 | endfire arrays                                       |
| B-50 aircraft                               | USE <b>Buccaneer aircraft</b>                  | microwave antennas                                   |
| Boeing aircraft                             | OOL BUCCANCE ANDIAIL                           | radio antennas                                       |
| . B-50 aircraft                             | babbitt metal                                  | iadio attettias                                      |
| monoplanes                                  | DEF Any of the white alloys composed pri-      | background noise                                     |
| . B-50 aircraft                             | marily of tin or lead and of lesser amounts of | DEF In recording and reproducing, the total          |
|   | antimony, copper, and other metals, and used   | system noise independent of whether or not a         |
| RT ∞ aircraft                               | for bearings.                                  | signal is present. The signal is not to be included  |
| B-52 aircraft                               | GS alloys                                      | as part of the noise. In receivers, the noise in the |
| UF Stratofortress aircraft                  | . antimony alloys                              | absence of signal modulation on the carrier.         |
| GS attack aircraft                          | . babbitt metal                                | RT channel noise                                     |
| oo attaon airoratt                          | Nannit IIICtai                                 | IXI OHAHIGI HOISE                                    |

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cosmic noise reserves eukaryotes elastic waves gnotobiotics weldina electromagnetic noise invertebrates ionospheric noise backward differencing panspermia DEF A method of solving a parabolic probpathogens lem for approximating a time derivative in terms prokaryotes noise (sound) noise measurement of a previous time step. saprophytes noise spectra differential equations waste treatment noise threshold numerical stability bacterial diseases ∞ radiation problem solving (EXCLUDES PLANT DISEASES) random noise diseases backward facing steps ∞ rays . infectious diseases signal to noise ratios DEF A step structure which faces an on-. . bacterial diseases squelch circuits coming flow. Used for rearward facing steps. rearward facing steps . . . cholera boundary layer flow diphtheria background radiation background radiation flow geometry keratitis . cosmic microwave background fluid boundaries syphilis tuberculosis radiation forward facing steps typhoid anticoincidence detectors reattached flow . . typhus big bang cosmology recirculative fluid flow Clostridium continuous radiation stairsteps conjunctivitis corpuscular radiation ∞ steps dermatitis Cosmic Background Explorer satellite encephalitis cosmic noise backward wave tubes meningitis electromagnetic noise GS electron tubes extraterrestrial radiation nephritis . vacuum tubes pneumonia high altitude tests . . microwave tubes ionospheric noise . . . traveling wave tubes bactericides ∞ radiation .... backward wave tubes Agents that destroy microorganisms. relic radiation . . helitrons Also known as germicides. Used for germicides. sky radiation microwave equipment germicides . microwave tubes backings USE backups antiinfectives and antibacterials . . traveling wave tubes antiseptics . . . backward wave tubes chemical sterilization . . . helitrons ethylene oxide backlobes beam currents Radiation lobes whose axes make fumigation electron transfer angles of approximately 180 degrees with resterilization microwave oscillators spect to the axes of the major lobes of the antennas. By extension radiation lobes in the bacteriology GS microbiology backward waves half-space opposed to the direction of peak DEF In traveling wave tubes, waves whose . bacteriology activity. group velocity is opposite to the direction of archaebacteria RT antenna design electron-stream motion. antenna radiation patterns bacteria elastic waves biochemistry directional antennas electromagnetic radiation biology
 Clostridium botulinum solitary waves transmission lines backpropagation (artificial intelligence) colonies traveling wave tubes endotoxins (added December 2001) traveling waves anotobiotics DEF A learning algorithm which minimizes the error function of perceptron neural nets by vaccines backwash (EXCLUDES PROCESSES OF BACKWASHING) sidewash comparing the actual and desired outputs and SN bacteriophages adjusting the weights of each neuron layer. UF microorganisms GS mathematical logic boundary layer stability RT viruses . algorithms . bacteriophages downwash ... backpropagation (artificial slipstreams RT intelligence) interferon Strouhal number RT artificial intelligence computer techniques turbulence hadlands DEF Intricately stream-dissected topogra-phy, characterized by a very fine drainage neterror analysis wakes least squares method machine learning work with high drainage densities (77 to 747 bacteria miles per square mile) and short steep slopes with narrow interflues. Badlands develop on the GS microorganisms neural nets . bacteria optimization . . actinomycetes surface with little or no vegetative cover, overlybackscattering . . archaebacteria ing unconsolidated or poorly cemented clays or DEF Scattering of radiation in a direction Azotobacter silts, sometimes with soluble minerals such as having a component opposite its original direc-. . Bacillus gypsum or halite. They may also be induced in tion of propagation. . stearothermophilus humid areas by removal of the vegetative cover scattering . . Clostridium through overgrazing, or by air pollution from backscattering . Clostridium botulinum sulfide smelting. The term was first applied to an differential absorption lidar . . Escherichia area in western South Dakota, which was called forward scattering hydrogenomonas "mauvaises terres" by the early French fur trad-. . Klebsiella laser plasma interactions ers. microwave signatures . . nitrobacter GS nuclear scattering . . pseudomonas badlands scatter propagation . . salmonella barren land . . sarcina topography backshores . . serratia USE beaches . . staphylococcus baffles

. . streptococcus

aerobes

biofilms

bliaht

colonies

anaerobes

bacteriology

. streptomycetes

biological weapons

backups

Items kept available to replace items

which fail to perform satisfactorily. Items under

development intended to perform the same gen-

eral functions another item also under develop-

ment performs. Used for backings.

UF backings

RT redundant components

DEF Plates that regulate the flow of a fluid, e.g., a heat exchanger, boiler flue, or automotive muffler.

RT

attenuators

conical flow

damping

deflectors

blast deflectors

∞ barriers

 $\infty \, \text{diffusers}$ thermosetting resins RT atmospheric electricity diverters dividers bakeout ∞ ballast ducts (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) USE degassing SN flame deflectors liquid sloshing Baker-Nunn camera louvers ballast (mass) optical equipment ballasts (impedances) mixers . cameras mufflers Baker-Nunn camera panels ballast (mass) photographic equipment reflectors RT aerodynamic stability . cameras shielding ∞ ballasť . Baker-Nunn camera suppressors buoyancy RT astronomical photography counterbalances Schmidt cameras floating baggage floats GS cargo baking hydrodynamics . baggage (EXCLUDES FOOD PROCESSING) heating SN GS loads (forces) RT air cargo mass distribution baking bags stability ground handling RT casting static loads degassing drying heat treatment bags ballasts (impedances) GS bags ovens Devices that by means of inductance, . air bag restraint devices roasting capacatance, or resistance, singly or in combigas bags sterilization nation, limit the lamp current of fluorescent or baggage mercury lamps to the required value for proper ∞ containers operation, and where necessary provide the balance packages required starting voltage and current amd. in GS balance ballasts for rapid-start lamps provide lowaerodynamic balance Bahamas voltage cathode heating. heat balance GS landforms . material balance RT ∞ ballast . islands capacitors . . water balance .. West Indies inductors RT compensators ... Bahamas **luminaires** ∞ equilibrium nations resistors ∞ mass balance **Bahamas** transformers mass distribution RT Caribbean region weight indicators ballistic cameras Bahrain balance equations Ground-based cameras using multiple landforms GS USE equations exposures on the same plate to record the . islands trajectories of rockets. . Bahrain optical equipment GS balanced amplifiers nations USE push-pull amplifiers . cameras . Bahrain . ballistic cameras photographic equipment balancing bailout . cameras RT eccentricity . ballistic cameras air drop operations ∞ equilibrium ejection. ground support equipment flywheels ejection injuries high speed cameras man machine systems ejection seats optical tracking stabilization ejection training rangefinding escape (abandonment) stroboscopes Baldwin-Lomax turbulence model escape systems trajectory measurement (added May 1997) flying ejection seats models jettison systems ballistic missile decovs . mathematical models jettisoning countermeasures GS . . turbulence models parachute descent ballistic missile decoys ... Baldwin-Lomax turbulence parafoils decoys
ballistic missile decoys model RT computational fluid dynamics bainite missile defense eddy viscosity Metastable microstructure or microreentry decoys flow equations structures resulting from the transformation of turbulent boundary layer austenite at termperatures between those which turbulent flow **Ballistic Missile Early Warning System** produce pearlite and martensite. UF BMEWS RT bainitic steel GS warning systems ball bearings iron alloys . early warning systems
. . Ballistic Missile Early Warning GS bearings microstructure . antifriction bearings steels . ball bearings System RT air defense RT balls bainitic steel military technology elastohydrodynamics radar tracking GS alloys needle bearings . iron alloys roller bearings systems . . steels thrust bearings . . bainitic steel ballistic missile submarines RT bainite ball lightning GS water vehicles DEF A relatively rare form of lightning, con-. ships sisting of a reddish, luminous ball, of the order of Baja California . . submarines USE Lower California (Mexico) one foot in diameter, which may move rapidly . . . ballistic missile submarines . underwater vehicles along solid objects or remain floating in midair. Hissing noises emanate from such balls, and . . submarines bajadas they sometimes explode noisily but may also . ballistic missile submarines USE fans (landforms) appear noiselessly. fleet ballistic missiles GS electric current missile launchers . electric discharges mobile missile launchers Bakelite (trademark) . . lightning ceramics navy

... ball lightning

Poseidon missiles

resins

sea launching hypervelocity guns . inflatable structures ordnance . ballutes ballistic missiles projectiles air drop operations (GUIDED ONLY DURING INITIAL POWERED PHASE) Missiles designed to operate primarily SN propellants aircraft brakes trajectories balloons DEF trajectory analysis drag chutes in accordance with the laws of ballistics. trajectory measurement folding structures GS missiles parachutes ballistic missiles ballistocardiography . . field army ballistic missiles GS bioengineering Balmer series . . intercontinental ballistic missiles . biometrics GS spectra . . . Atlas ICBM . . cardiography . radiation spectra . . Atlas D ICBM . . ballistocardiography . . electromagnetic spectra . . . Atlas E ICBM . . . line spectra electrocardiography phonocardiography ... Balmer series . . . Minuteman ICBM RT absorption spectra seismocardiography . MX missile atomic spectra ... Titan ICBM balloon flight electron transitions Titan 1 ICBM emission spectra . Titan 2 ICBM meteorological flight H beta line . . intermediate range ballistic missiles vertical flight H gamma line . . . Blue Streak missile H lines . Jupiter missile balloon sounding hydrogen ... polaris missiles GS Polaris A1 missile balloon sounding balsa Polaris A2 missile atmospheric sounding RT trees (plants) . Polaris A3 missile in situ measurement wood . . Pershing missile ozonesondes Poseidon missiles radiosondes Baltic sea . . short range ballistic missiles superpressure balloons GS seas Skybolt missile Baltic sea . . Subroc missile balloon-borne instruments RT Estonia . V-2 missile measuring instruments Latvia antimissile missiles balloon-borne instruments Safeguard system Baltic Shield (Europe) airborne equipment surface to surface missiles GS rocks high altitude balloons . bedrock ballistic ranges Baltic Shield (Europe) meteorological instruments GS ranges (facilities) ozonesondes Earth resources . test ranges radiosondes Europe . ballistic ranges telescopes Precambrian period test facilities . test ranges ballooning modes Banach space . ballistic ranges GS modes GS algebra RT downrange . ballooning modes . vector spaces hydroballistics magnetohydrodynamic stability ... Banach space missile ranges . . . Hilbert space plasma control plasma equilibrium . Sobolev space ballistic trajectories analysis (mathematics) tearing modes (plasmas) DEF Trajectories followed by a body being . function space acted upon only by gravitational forces and the resistance of the medium through which it . . Banach space balloons expandable structures . . . Hilbert space passes . inflatable structures . . . Sobolev space GS trajectories . . balloons . functional analysis ballistic trajectories . . . high altitude balloons ... Banach space RT ascent trajectories . . . . jimsphere balloons . . . Hilbert space ballistics . . . skyhook balloons . . . Sobolev space coasting flight . . . superpressure balloons . . . meteorological balloons RT harmonic analysis descent trajectories metric space . . . . jimsphere balloons . . . . ROBIN balloons downrange free fall band ratioing impact prediction . . . microballoons image processing GS midcourse trajectories . . tethered balloons band ratioing missile trajectories  $RT \, \infty \, aircraft$ image enhancement parabolic flight multispectral band scanners airships ascent remote sensing ∞ ballistic vehicles balloon-borne instruments spectral bands (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.-CONSULT THE TERMS LISTED BELOW) ballutes folding structures band structure of solids nonlifting vehicles gas bags RT Brillouin zones reentry vehicles gondolas conduction bands rocket vehicles observation aircraft electron transitions test vehicles pilotless aircraft electronic structure ∞ vehicles stratoscope telescopes energy gaps (solid state) forbidden bands weapons balls heterojunction devices ball bearings quantum wells DEF The science that deals with the motion, falling spheres behavior and effects of projectiles, especially joints (junctions) bandgap bullets, aerial bombs, rockets or the like; the spheres USE energy gaps (solid state) science or art of designing and hurling projecvalves tiles so as to achieve a desired performance. bandpass filters ballistics DEF Wave filters having a single transmisballutes . hydroballistics GS brakes (for arresting motion) sion band; neither of the cut-off frequencies . interior ballistics . aerodynamic brakes being zero or infinity. . terminal ballistics . ballutes GS electromagnetic wave filters aerodynamic drag drag devices . bandpass filters . . crystal filters ballistic trajectories . aerodynamic brakes . tracking filters . ballutes

expandable structures

gas guns

howitzers

RT adaptive filters

|         | bandstop filters  |                     | Pakistan  |           | barium fluorides                             |
|---------|---|---------------------|---|-----------|--|
|         | bandwidth<br>electric filters   | banking             | flight  | harium    | ion clouds                                   |
| ∞       | filters   |                     | turning flight  | GS        | clouds (meteorology)                         |
|         | FIR filters   |                     | 5 5   | 00        | . artificial clouds                          |
|         | microwave filters   | Barany              |   |           | chemical clouds                              |
|         | optical filters   |                     | A kind of chair in which a person is to test his susceptibility to vertigo. It is |           | barium ion clouds                            |
|         | ultraviolet filters   |                     | after the Swedish physician Robert  | RT        | Earth magnetosphere                          |
|         | vocoders  |                     | who lived from 1876 to 1936.  |           | electric fields<br>geomagnetism              |
| ∞ bands |   | ,                   |   |           | lines of force                               |
| SN      | (USE OF A MORE SPECIFIC TERM IS                                       |                     | Barany chair  |           | metal ions                                   |
|         | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)                         | RT                  | rotating environments   |           | rocket sounding                              |
| RT      | absorption spectra  |                     | tolerances (physiology)<br>vertigo  |           | thermites                                    |
|         | anchors (fasteners)   |                     | vortigo   | harium    | isotopes                                     |
|         | bandwidth   | Barbado             |   | GS        | chemical elements                            |
|         | Bloch band broadband  | GS                  | landforms   | 00        | . alkaline earth metals                      |
|         | clamps  |                     | . islands   |           | barium isotopes                              |
|         | clips   |                     | Barbados  |           | . barium                                     |
|         | conduction bands  |                     | nations   |           | barium isotopes                              |
|         | edge dislocations   |                     | . Barbados  |           | . nuclides isotopes                          |
|         | energy bands<br>fasteners   | RT                  | Caribbean region  |           | barium isotopes                              |
|         | forbidden bands   | barchan             | 9   |           | metals                                       |
|         | frequencies   |                     |   |           | . alkaline earth metals                      |
|         | Herzberg bands  |                     |   |           | barium isotopes                              |
|         | holders   |                     | approximation   |           | . barium barium isotopes                     |
|         | low frequencies narrowband  | USE                 | barrier layers electrical properties  |           | barrum isotopes                              |
|         | photoluminescent bands  |                     | surface properties  | barium    | oxides                                       |
|         | plastic deformation   |                     | ошниос ресроинсе  | GS        | barium compounds                             |
|         | ring structures   |                     | n-Cooper-Schrieffer theory  |           | barium oxides                                |
|         | Schumann-Runge bands  | USE                 | BCS theory  |           | chalcogenides<br>. oxides                    |
|         | sidebands   | Barents             | Sea   |           | metal oxides                                 |
|         | spectral bands<br>straps  | GS                  | seas  |           | alkaline earth oxides                        |
|         | Swan bands  |                     | . Barents Sea   |           | barium oxides                                |
|         | Vegard-Kaplan bands   | RT                  | Arctic Ocean  | RT        | high temperature superconductors             |
|         |   |                     | U.S.S.R.  |           | YBCO superconductors                         |
| bandsto |   | barite              |   | harium    | sulfides                                     |
|         | Filters that block signals of a specific by or a band of frequencies. | GS                  | minerals  | GS        | barium compounds                             |
|         | electromagnetic wave filters  |                     | . barite  |           | . barium sulfides                            |
|         | . electric filters  |                     | sulfur compounds  |           | chalcogenides                                |
|         | bandstop filters  |                     | . sulfates  |           | . sulfides                                   |
| RT      | adaptive filters  |                     | Daine   |           | inorganic sulfides barium sulfides           |
|         | bandpass filters<br>bandwidth   | barium              |   |           | sulfur compounds                             |
|         | crystal filters   | GS                  | chemical elements   |           | . sulfides                                   |
| ∞       | filters   |                     | . barium  |           | inorganic sulfides                           |
|         | high pass filters   |                     | barium isotopes metals  |           | barium sulfides                              |
|         | low pass filters  |                     | . barium  | la automa | 4itamatan                                    |
|         | microwave filters optical filters                                     |                     | barium isotopes   | GS        | titanates<br>barium compounds                |
|         | tracking filters  | le a alessa         | allana  | 00        | . barium titanates                           |
|         | waveguide filters   | <b>barium</b><br>GS | alloys<br>alloys  |           | titanium compounds                           |
|         | _   | 00                  | . barium alloys   |           | . titanates                                  |
| bandwid |   |                     |   | RT        | barium titanates<br>dielectrics              |
| GS      | bandwidth<br>. broadband  |                     | compounds   | KI        | ferroelectric materials                      |
|         | . narrowband  | GS                  | barium compounds . barium ferrates  |           | Torreordenia materiale                       |
|         | . spectral line width   |                     | . barium fluorides  |           | zirconates                                   |
|         | bandpass filters  |                     | . barium oxides   | GS        | barium compounds                             |
| ∞       | bands   |                     | . barium sulfides   |           | . barium zirconates                          |
|         | bandstop filters<br>broadband amplifiers                              |                     | . barium titanates  |           | zirconium compounds<br>. zirconates          |
|         | channel capacity  | DT                  | . barium zirconates   |           | barium zirconates                            |
|         | dynamic characteristics   |                     | alkaline earth compounds<br>chemical compounds                                    |           |  |
|         | frequencies   |                     | metal compounds   |           | usen effect                                  |
|         | frequency ranges  |                     |   | RT ∝      | o effects                                    |
|         | impedance<br>laser windows  | barium              |   |           | electromagnetic measurement electromagnetism |
|         | resonant frequencies  | GS                  | barium compounds . barium ferrates  |           | oscillographs                                |
|         | speech baseband compression   |                     | iron compounds  |           | gp   |
|         | tracking filters  |                     | . ferrates  | barley    |  |
|         | transfer functions  |                     | barium ferrates   | GS        | farm crops                                   |
|         | width<br>windows (intervals)  | harium              | fluorides   |           | . grains (food)<br><b>barley</b>             |
|         | asiro (intorvaio)   |                     | barium compounds  |           | plants (botany)                              |
|         | ng control  |                     | . barium fluorides  |           | . barley                                     |
|         | off-on control  |                     | halogen compounds   | RT        | agriculture                                  |
| D       | lack  |                     | . fluorine compounds  |           | blight                                       |
| Banglad | lesh<br>East Pakistan   |                     | fluorides<br>barium fluorides   |           | botany<br>crop growth                        |
|         | nations   |                     | barium nuorides<br>. halides  |           | crop growth                                  |
|         | . Bangladesh  |                     | fluorides   | 00        | ∘ crops                                      |
| RT      | Asia  |                     | barium fluorides  | 00        | o food                                       |
|         | India   |                     | metal halides   |           | irrigation                                   |

irrigation

proprioceptors seeds

baroclinic instability

Hydrodynamic instability arising from the existence of a meridional temperature gradient (and hence a thermal wind) in an atmosphere in quasigeostrophic equilibrium and possessing static stability.

GS stability

. baroclinic instability

atmospheric circulation atmospheric models baroclinic waves baroclinity flow stability geostrophic wind meteorology

zonal flow (meteorology)

## baroclinic waves

GS elastic waves

- . capillary waves
- ... gravity waves
- . baroclinic waves
- surface waves
- . capillary waves
- . . gravity waves
- . baroclinic waves

baroclinic instability

baroclinity barotropic flow

cyclones

density distribution geostrophic wind

radiation pressure

stratified flow wave amplification

∞ waves zonal flow (meteorology)

DEF The state of stratification in a fluid in which surfaces of constant pressure (isobaric) intersect surfaces of constant density (isoteric). The number, per unit area, of isobaric-isoteric solenoids intersecting a given surface is a measure of baroclinity.

baroclinic instability RT baroclinic waves barotropic flow barotropism

∞ isobars

meteorological solenoids

stratified flow

## barometers

DEF Instruments used to measure atmospheric pressure.

measuring instruments

- . meteorological instruments
- . barometers
- . pressure gages

manometers

altimeters hypsometers

pressure measurement

vacuum gages

barometric pressure

USE atmospheric pressure

baroreceptor reflexes (added April 2001) USE baroreflexes

## baroreceptors

DEF Receptors in the vascular system, particularly the aorta and carotid sinus, which are sensitive to stretch of the vessel walls.

pressoreceptors

anatomy

- . sense organs
- . . baroreceptors

receptors (physiology)

baroreceptors

baroreflexes pressure

baroreflexes (added March 2001)

DEF A negative feedback system that buffers short-term changes in blood pressure. Increased pressure stretches blood vessels, which activates pressoreceptors (baroreceptors) in the vessel walls. The central nervous system's net response is a reduction of central sympathetic outflow. This reduces blood pressure by decreasing peripheral vascular resistance and by lowering cardiac output. Because the baroreceptors are tonically active, the baroreflex can compensate rapidly for both increases and decreases in blood pressure.

baroreceptor reflexes pressoreceptor reflexes GS

reflexes

## . baroreflexes

. carotid sinus reflex

RT baroreceptors blood pressure

cardiovascular system

heart rate

hemodynamic responses physiological responses

#### barotrauma

injuries GS

barotrauma

decompression sickness diving (underwater)

#### barotropic flow

GS fluid flow

barotropic flow

air currents air flow baroclinic waves baroclinity

barotropism flow characteristics

lee waves planetary waves Rayleigh waves

Rossby regimes sea breeze

viscous flow wind (meteorology) wind shear

## barotropism

The state of a fluid in which surfaces of constant density (or temperature) are coincident with surfaces of constant pressure; it is the state of zero baroclinity.

barotropism GS

planetary waves baroclinity barotropic flow

∞ isobars

## ∞ barrages

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

RT artillery fire dams

## barred galaxies

Spiral galaxies whose nuclei are in the shape of bars at the ends of which the spiral arms begin. About one fifth of all spiral galaxies are barred spirals.

celestial bodies GS

- . galaxies
- . . spiral galaxies
- barred galaxies

disk galaxies galactic structure

Hubble diagram local group (astronomy) star clusters

star distribution stars

Virgo galactic cluster

∞ barrels

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

barrels (containers)

∞ drums gun launchers

## barrels (containers)

casks RT ∞ barrels drums (containers)

### barren land

Rugged or unproductive lands devoid of significant vegetation compared to adjacent areas because of environmental factors such as adverse climate, poor soil, o, or winds, Used for barrens.

UF barrens GS land

. barren land

arid lands RT badlands desertification

deserts land use

Sahara Desert (Africa)

sites soils topography

barrens

USE barren land

barricades

USE barriers

barrier injection transit time diodes

USE Barritt diodes

## barrier layers

UF Bardeen approximation RT ∞ barriers

Barritt diodes interlayers

**JFET** joints (junctions) junction diodes

junction transistors layers MBM junctions nonohmic effect resonant tunneling

seals (stoppers) semiconductor devices SIS (semiconductors)

surface layers tunnel junctions waterproofing Zener effect

## ∞ barriers

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)
Any materials limiting passage through SN

DFF itself of solids, liquids, semisolids, gases, or forms of energy such as ultraviolet light. Used for barricades and obstacles.

UF barricades obstacles

abort apparatus acoustic velocity arresting gear

baffles barrier layers barriers (landforms) Barritt diodes

blood-brain barrier bulkheads chains closures constrictions curtains

dams

dividers

electrode film barriers

## barriers (landforms)

GS

bars GS

GS

RT

barycenter

USE center of gravity

An anomaly found in scattering cross

baryon resonance DEF

enclosures sections indicating the existence of an unstable, foundations fences (barriers) excited state of baryon. gates (openings) resonance bases (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) guards (shields) baryon resonance MBM junctions RT barvons safety devices hyperons RT bases (chemical) Schottky diodes scattering cross sections data bases seals (stoppers) foundations shielding inorganic compounds barvons thermal barriers (plasma control) ion concentration GS particles vapor barrier clothing lunar bases elementary particles walls space bases . . fermions wind (meteorology) stations ... baryons windows (apertures) . . . . hyperons bases (chemical) . . . . xi hyperons barriers (landforms) GS bases (chemical) . . . . omega-mesons DEF Elongated offshore ridges or masses, . adenines . . . . rho-mesons usually of sand, rising above the high-tide level, . alkalies . sigma-mesons generally extending parallel to, and at some .. lithium hydroxides . . hadrons distance from, the shore, and separated from it . . potassium hydroxides ... baryons by some kind of coastal bay. It is built up by the . . sodium hydroxides ... hyperons action of waves and currents. . alkaloids . . . . xi hyperons GS landforms . . atropine .... omega-mesons . barriers (landforms) . . betaines . . . . rho-mesons . . Outer Banks (NC) . . . sigma-mesons . reefs . . colchicine baryon resonance RT ∞ barriers . . ergotamine cold neutrons bars (landforms) . . hyoscine dark matter island arcs . . lysergine eta-mesons . . morphine fast neutrons **Barritt diodes** . . nicotinamide gravitinos DEF Barrier injection transit time diodes that . . nicotine kaons operate similarly to IMPATT diodes. The operat-. . pilocarpine meson resonance ing frequencies are determined by the transit . . reserpine mesons times across the drift. Used for barrier injection . . strychnine muons transit time diodes. . . tropyl compounds neutrons barrier injection transit time diodes . guanines nucleons electronic equipment . piperidine photoneutrons . diodes pyridines pions . . semiconductor diodes . quinoline protons ... Barritt diodes . thymidine recoil protons . solid state devices solar protons . . semiconductor devices RT alkalinity thermal neutrons . . Barritt diodes anhydrides avalanche diodes ∞ bases barrier layers basalt buffers (chemistry) ∞ barriers GS rocks рΗ carrier injection . igneous rocks cryosar basalt bases (foundations) electric potential cones (volcanoes) USE foundations injection lunar maria junction diodes Mars volcanoes **BASIC** (programming language) microwave oscillators regolith GS languages rectifiers soils . programming languages Schottky diodes volcanoes . BASIC (programming language) semiconductor junctions volcanology RT computer programming shot noise transit time basins base flow USF structural basins DFF Fluid flow at the base or extreme aft end of a body bars basins (containers) fluid flow . elastic bars GS RT tanks (containers) base flow . prismatic bars metal plates RT head flow baskets rods wakes RT ∞ containers structural members gondolas base heating bars (landforms) DEF A generic term for any of various elongate offshore ridges, banks, or mounds of sand, GS heating bastnasite base heating GS carbon compounds afterbodies . carbonates gravel, or other unconsolidated material, subconvection . . bastnasite merged at least at high tides, and built up by the exhaust nozzles minerals action of waves or currents on the water bottom, jet exhaust . bastnasite especially at the mouth of a river or estuary, or at jet impingement rare earth compounds a slight distance from the beach. Bars com-∞ radiation . cerium compounds monly form obstructions to water navigation. rocket exhaust . . bastnasite tombolos landforms batch processing bars (landforms) base pressure data processing GS barriers (landforms) DEF In aerodynamics, the pressure exerted . batch processing beaches on the base, or extreme aft end, of a body, as of computer programming coastal plains a cylindrical or boattailed body or of a bluntcomputer programs lagoons trailing-edge wing, in a fluid flow. data processing equipment littoral drift GS pressure ∞ processing base pressure reefs

aerodynamic drag

buildings

floors

bathing

GS

cleaning

RT cooling

. washing

bathing

RT

basements

|                  | hygiene                                 |              | lake ice   |                | estuaries                                   |
|------------------|---|--------------|--|----------------|---|
|                  | waste water                             |              | low temperature  |                | gulfs                                       |
| batholit         | hs                                      |              | navigation oceanography  |                | inlets (topography)                         |
|                  | rock intrusions                         |              | sea ice  | BBGKY          | hierarchy                                   |
|                  | . batholiths                            |              | slush  |                | classifications                             |
|                  | rocks                                   |              | water  |                | . hierarchies                               |
|                  | . bedrock                               |              |  | 5.7            | BBGKY hierarchy                             |
| DT               | batholiths                              |              | Alpert ionization gages  | RT             | ,   |
| RT               | granite                                 |              | Ionization vacuum gages using a tube   |                | Boltzmann transport equation                |
|                  | igneous rocks                           |              | electrode structure designed to minimize   |                | equations of state Fourier transformation   |
| baths            |   | collector    | duced electron emission from the ion   |                | kinetic equations                           |
| SN               | (EXCLUDES BATHING)                      |              | measuring instruments  |                | plasma physics                              |
| GS               | baths                                   | 00           | . pressure gages   |                | placifia physics                            |
|                  | . salt baths                            |              | vacuum gages   | BCAS           |   |
| RT               | dipping                                 |              | ionization gages   | USE            | Beacon Collision Avoidance                  |
|                  | electroplating                          |              | Bayard-Alpert ionization   |                | System                                      |
|                  | heat transfer                           |              | gages  | BCC lat        | tions.                                      |
| ~                | quenching (cooling)<br>soaking          |              | vacuum apparatus   |                | body centered cubic lattices                |
|                  | submerging                              |              | . vacuum gages   | OOL            | body contered cubic lattices                |
|                  | water immersion                         |              | ionization gages Bayard-Alpert ionization gages                                  | BCH co         | odes  |
|                  |   | RT           | hot cathodes   | UF             | Bose-Chaudhuri-Hocquenghem codes            |
| bathym           | eters                                   | 131          | not camoues  | RT             | binary codes                                |
|                  | Instruments that measure the ocean      | Bayes t      | heorem   | ~              | o codes                                     |
|                  | and check the topography of the ocean   | UF           | Bayesian statistics  |                | coding                                      |
|                  | sed for bathymetry.                     | GS           | theorems   |                | computer programming                        |
| UF               |   |              | . Bayes theorem  |                | decoders                                    |
| GS               | measuring instruments . bathymeters     | RT           | belief networks  |                | decoding                                    |
| RT               | depth measurement                       |              | quality control  |                | digital techniques error correcting devices |
| IXI              | oceanography                            |              | sampling   |                | information theory                          |
|                  | sounding                                | Ravesia      | n belief networks  |                | parity                                      |
|                  | underwater research laboratories        |              | belief networks  |                | random errors                               |
|                  |   | 002          |  |                |   |
| bathyme          |   | Bayesia      | n statistics   | BCS the        |   |
| USE              | bathymeters                             | USE          | Bayes theorem  | UF             | Bardeen-Cooper-Schrieffer theory            |
| la a t la v t la |   |              |  | RT             | many body problem                           |
|                  | ermographs measuring instruments        | bayous       | A 4  |                | superconductivity                           |
| 63               | . temperature measuring instruments     |              | A term variously applied to many local   | ~              | theories                                    |
|                  | bathythermographs                       |              | eatures in the lower Mississippi River and in the Gulf Coast region of the U.S., |                | thermodynamic coupling                      |
|                  | recording instruments                   |              | ly in Louisiana. Its general meaning is a  | BE A           |   |
|                  | . bathythermographs                     |              | a secondary watercourse that is tribu-   | USE            | Beacon Explorer A                           |
| RT               |   |              | nother body of water; especially through   |                | ·   |
|                  | temperature gradients                   |              | owlands, coastal swamps or river del-  | BE B           |   |
|                  |   |              | origin of the term is from the American  | USE            | Explorer 22 satellite                       |
| bats             |   | French       | "boyau", "gut"; from the Choctaw   | DE 0           |   |
| GS               | animals                                 | "bayuk",     | "small stream".  | BE C           | Explorer 27 cotallite                       |
|                  | . vertebrates                           |              | landforms  | USE            | Explorer 27 satellite                       |
|                  | mammals                                 |              | . inlets (topography)  | BE-3 en        | ngine                                       |
|                  | bats                                    |              | bayous   |                | engines                                     |
| batteries        | S                                       | RT           | lakes  |                | . rocket engines                            |
| USE              | electric batteries                      |              | marshlands   |                | retrorocket engines                         |
|                  |   |              | rivers   |                | BE-3 engine                                 |
| battery          | chargers                                | ∞ bays       |  | RT             | Athena rocket vehicle                       |
| RT               | charge efficiency                       | ∞ bays<br>SN | (USE OF A MORE SPECIFIC TERM IS  |                | Ranger lunar landing vehicles               |
| ~                | charging                                | 0            | RECOMMENDEDCONSULT THE TERMS   |                | solid propellant rocket engines             |
|                  | electric batteries                      | DT           | LISTED BELOW)  | basaba         | _   |
|                  | pulse charging                          | KI           | bays (structural units)<br>bays (topographic features)                           | beache:<br>DEF |   |
|                  | storage batteries                       |              | bays (topographic features)  |                | nstitute gently sloping zones, typically    |
| hattery          | separators                              | bays (st     | ructural units)  |                | ncave profiles, extending landward from     |
|                  | separators                              |              | aircraft compartments  |                | water line to the place where there is a    |
| 002              |   |              | airframes  |                | change in material or physiographic         |
| Bausch           | inger effect                            | ∞            | bays   |                | Ised for advancing shorelines, back         |
| RT ∝             | o effects                               |              | compartments   |                | and inshore zones.                          |
|                  | fatigue (materials)                     |              | fuselages  | UF             | advancing shorelines                        |
|                  | microstructure                          |              | hulls (structures)   |                | backshores                                  |
| h!t-             |   |              | shells (structural forms)  | DT             | inshore zones                               |
| bauxite          | A farruginous aluminium hydroxide       | have (to     | pographic features)  | RT             | bars (landforms)                            |
|                  | nsisting of several minerals. It is the |              | Wide, curving open indentations, re-   |                | coastal currents<br>coastal plains          |
|                  | source for aluminum.                    |              | or arms of seas or lakes into the land or  |                | coasts                                      |
| RT               |   |              | two capes or headlands; larger than  |                | cusps (landforms)                           |
|                  | minerals                                | coves, a     | nd usually smaller than, but of the same   |                | dunes                                       |
|                  | rocks                                   |              | character as gulfs. Used for bights and  |                | lagoons                                     |
|                  |   | coves.       |  |                | lakes                                       |
| B-A-W            |   | UF           | bights   |                | littoral drift                              |
| USE              | bulk acoustic wave devices              | 00           | coves  |                | marine environments                         |
| hov in-          |   | GS           | bays (topographic features) . Chesapeake Bay (US)                                |                | shoals                                      |
| bay ice<br>GS    | ice                                     |              | . Delaware Bay (US)  |                | shorelines                                  |
| 99               | . bay ice                               |              | . Hudson Bay (Canada)  |                | topography<br>waterfowl                     |
| RT               |   |              | . Monterey Bay (CA)  |                | wateriuwi                                   |
|                  | frost                                   |              | . Saginaw Bay (MI)   | Beacon         | Collision Avoidance System                  |
|                  | ice formation                           |              | . San Francisco Bay (CA)   |                | BCAS  |
|                  | ice mapping                             |              | . San Pablo Bay (CA)   | GS             | avoidance                                   |
|                  | ice reporting                           | RT ∞         | bays   |                | . collision avoidance                       |

. . Beacon Collision Avoidance visual signals some incident light to pass through and reflect the remainder. System beads air traffic control beams (radiation) spot welds aircraft safety RT particle accelerators midair collisions welded joints particle beams radio beacons welding scatter plates (optics) ∞ svstems Beagle aircraft transponders beam steering RT ∞ aircraft (added June 1997) GS steering Beacon Explorer A beam currents beam steering BE A DEF Currents incident on specimens by priantenna radiation patterns S-66 satellite mary particle sources. beam waveguides artificial satellites electric current beamforming . passive satellites beam currents beams (radiation) . . Beacon satellites backward wave tubes collimation . . . Beacon Explorer A Brillouin flow laser beams expandable structures ∞ currents steerable antennas inflatable structures plasma currents . . inflatable spacecraft beam switching ... Beacon satellites beam forming GS switching . Beacon Explorer A USE beamforming beam switching inflatable space structures beams (radiation) . inflatable spacecraft beam injection electron optics ... Beacon satellites The introduction of a particle radiation ion engines . . Beacon Explorer A beam into a plasma or ionized gas for the lasers space erectable structures purpose of diagnostics, plasma control, or the magnetic switching . inflatable spacecraft study of beam/plasma interactions. packet switching . . Beacon satellites electron beams . Beacon Explorer A ion beams beam waveguides Delta launch vehicle neutral beams GS waveguides plasma heating beam waveguides plasma-particle interactions Beacon Explorer B RT beam steering tokamak devices USE Explorer 22 satellite collimators toroidal plasmas ion optics photon beams Beacon Explorer C beam interactions plasmaguides USE Explorer 27 satellite A general term for interactions berectangular waveguides tween various types of beams with each other or wave propagation Beacon satellites with plasmas or substances. vokes polar ionosphere beacon RT atom optics artificial satellites beams (radiation) beamed power . passive satellites collision parameters USE power beaming .. Beacon satellites high energy interactions ... Beacon Explorer A ∞ interactions beamforming ... Explorer 22 satellite wave-particle interactions (added September 1992) beam forming beamshaping expandable structures . inflatable structures beam leads . . inflatable spacecraft GS conductors collimation GS ... Beacon satellites . electric conductors beamforming Beacon Explorer A . beam leads RT antenna arrays antenna radiation patterns . . . Explorer 22 satellite . flat conductors inflatable space structures . beam leads beam steering RT bonding . inflatable spacecraft beams (radiation) ... Beacon satellites electric connectors ion optics ... Beacon Explorer A ∞ joining laser beams microelectronics . . Explorer 22 satellite polarization (waves) space erectable structures micromodules radar beams soldered joints . inflatable spacecraft Beacon satellites ∞ beams ... Beacon Explorer A beam neutralization (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Neutralization that takes place by Explorer 22 satellite means of charge exchange with a neutral gas. RT LOCATES system beams (radiation) beams (radiation) beams (supports) electron beams beacons ion beams DEF Lights, groups of lights, electronic apbeams (radiation) neutral beams beams (radiation) paratus, or other devices that guide, orient, or warn aircraft, spacecraft, etc. in flight. beam plasma amplifiers gamma ray beams GS navigation aids . light beams GS amplifiers . beacons . . laser beams beam plasma amplifiers . . airport beacons . microbeams electron beams ... discrete address beacon system . particle beams millimeter waves . . radar beacons . . atomic beams plasma-particle interactions ... discrete address beacon system . . electron beams plasmas (physics) . relativistic electron beams . . radio beacons relativistic electron beams ... omnidirectional radio ranges . . ion beams . . . . self calibrating omnirange . . neutral beams beam rider quidance . . radio direction finders DEF System for guiding aircraft, spacecraft, or missiles, along a desired path by means of a radar beam, light beam, etc. The center of the . . . molecular beams aircraft lights ... neutron beams . . neutrino beams buoys compasses beam axis forms a line along which the vehicle . . pion beams homing . . proton beams senses its location and corrects its course relahoming devices . pencil beams tive to the beam axis. instrument flight rules . phonon beams guidance (motion) GS ∞ markers . photon beams beam rider guidance position indicators . radar beams RT missile control beam interactions projectors missile systems searchlights

beam splitters

Partially reflecting mirrors which permit

beam neutralization

beam splitters

beam steering

∞ signals

solar compasses

|           | beam switching                             |         | bearingless rotors                        |          | geology                                |
|-----------|--|---------|---|----------|--|
|           | beamforming                                | RT      | hinges                                    |          | regolith                               |
| ~         | beams                                      |         | rigid rotors                              |          | ∞ shelves                              |
|           | coherent electromagnetic radiation         |         |   |          | soils                                  |
|           | coherent radiation                         | bearing | gs  |          | strata                                 |
|           | corpuscular radiation                      | GS      | bearings                                  |          | stratification                         |
|           | electromagnetic radiation                  |         | . antifriction bearings                   |          | stratigraphy                           |
|           | extreme ultraviolet radiation              |         | ball bearings                             |          | tunneling (excavation)                 |
|           | infrared radiation                         |         | roller bearings                           |          | ,                                      |
|           | ionizing radiation                         |         | needle bearings                           | beds     |  |
|           | irradiation                                |         | . foil bearings                           | RT       | beds (process engineering)             |
|           | light (visible radiation)                  |         | . gas bearings                            |          | couches                                |
|           | longitudinal waves                         |         | . journal bearings                        |          |  |
|           | monochromatic radiation                    |         | . liquid bearings                         |          | geology)                               |
|           | multibeam antennas                         |         | . magnetic bearings                       | UF       |  |
|           | plane waves                                |         | . thrust bearings                         | GS       | geology                                |
| ~         | radiation                                  | RT «    | ∞ bearing                                 |          | beds (geology)                         |
| ~         | rays                                       |         | bearing alloys                            |          | salt beds                              |
|           | submillimeter waves                        |         | boundary lubrication                      |          | landforms                              |
|           | ultraviolet radiation                      |         | bushings                                  |          | beds (geology)                         |
|           |  |         | gimbals                                   | DT       | salt beds                              |
|           | (supports)                                 |         | idlers                                    | RT       |  |
|           | structural beams                           |         | internal combustion engines               |          | strata                                 |
| GS        | structural members                         |         | lubrication                               |          | stratigraphy                           |
|           | . beams (supports)                         |         | packings (seals)                          | h l - (- |  |
|           | box beams                                  |         | pivots                                    |          | process engineering)                   |
|           | cantilever beams                           |         | shafts (machine elements)                 | RT       |  |
|           | curved beams                               |         | supports                                  |          | chemical reactors                      |
|           | Euler-Bernoulli beams                      |         | suspension systems (vehicles)             |          | extraction                             |
|           | I beams                                    |         | swivels                                   |          | filtration                             |
|           | rectangular beams                          |         | wheels                                    |          | fluidized bed processors               |
|           | Timoshenko beams                           |         |   |          | ion exchanging                         |
| RT ∝      | beams                                      | bears   |   |          | percolation                            |
|           | clamped structures                         | GS      | animals                                   | Pacah    | 99 aircraft                            |
|           | columns (supports)                         |         | . vertebrates                             |          | Light, low-wing aircraft manufactured  |
|           | girders                                    |         | mammals                                   | by Bee   |  |
| ~         | headers                                    |         | bears                                     | GS GS    |  |
|           | plastic bodies                             |         |   | GS       | Beechcraft aircraft  Beech 99 aircraft |
|           | T shape                                    | beat    |   |          | Beech 99 aircraft                      |
|           | trusses                                    | USE     | synchronism                               |          | C-33 aircraft                          |
|           |  |         |   |          |  |
| beamsh    | , ,  |         | equencies                                 |          | C-35 aircraft                          |
| USE       | beamforming                                |         | The frequencies obtained when two         |          | light aircraft                         |
|           |  |         | harmonic quantities of different frequen- |          | . Beech 99 aircraft                    |
| ∞ bearing |  |         | and f2 are superimposed. The beat         |          | Beechcraft 18 aircraft                 |
| SN        | (USE OF A MORE SPECIFIC TERM IS            |         | cy equals f1-f2.                          |          | C-33 aircraft                          |
|           | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) | GS      | frequencies                               | БТ       | C-35 aircraft                          |
| RT        | bearing (direction)                        |         | . beat frequencies                        |          | ∞ aircraft                             |
|           | bearings                                   | RT      | group velocity                            | •        | ∞ low wing aircraft                    |
|           | internal combustion engines                |         | intermediate frequency amplifiers         | Dasah    | a iva raft                             |
|           |  |         | Moire effects                             | Beech    | Beechcraft aircraft                    |
| bearing   | (direction)                                |         | resonant frequencies                      | USE      | Beechcraft aircraft                    |
| RT -      | alignment                                  |         | standing waves                            | Reach    | C-33 aircraft                          |
|           | azimuth                                    |         | superheterodyne receivers                 |          | C-33 aircraft                          |
| ~         | bearing                                    |         |   | OOL      | 0-33 ancian                            |
| ~         | direction                                  | Beaufo  | rt Sea (North America)                    | Beech    | S-35 aircraft                          |
|           | direction finding                          | GS      | seas                                      |          | C-35 aircraft                          |
|           | exposure                                   |         | . Beaufort Sea (North America)            | 002      | o oo unorun                            |
|           | field of view                              | RT      | Alaska                                    | Beecho   | craft 18 aircraft                      |
|           | instrument orientation                     |         | Arctic Ocean                              | GS       |  |
| ~         | orientation                                |         | Canada                                    |          | . Beech 99 aircraft                    |
|           | position (location)                        |         |   |          | Beechcraft 18 aircraft                 |
|           | sound localization                         | bed res |   |          | general aviation aircraft              |
| ~         | space orientation                          | GS      | rest                                      |          | . Beechcraft 18 aircraft               |
|           | -  |         | . bed rest                                |          | light aircraft                         |
| bearing   |  | RT      | calcium metabolism                        |          | . Beech 99 aircraft                    |
| GS        | alloys                                     |         | clinical medicine                         |          | Beechcraft 18 aircraft                 |
|           | . bearing alloys                           |         | head down tilt                            |          | monoplanes                             |
| RT        | aluminum alloys                            |         | head up tilt                              |          | . Beechcraft 18 aircraft               |
|           | babbitt metal                              |         | orthostatic tolerance                     | RT «     | ∞ aircraft                             |
|           | bearings                                   |         |   |          |  |
|           | cadmium alloys                             |         | g equipment                               | Beecho   | craft aircraft                         |
|           | copper alloys                              |         | ∞ blankets                                | UF       | Beech aircraft                         |
|           | iron alloys                                | •       | ∞ equipment                               | GS       | Beechcraft aircraft                    |
|           | lead alloys                                |         |   |          | . Beech 99 aircraft                    |
|           | metal powder                               | bedias  |   |          | Beechcraft 18 aircraft                 |
|           | silver alloys                              | GS      | celestial bodies                          |          | C-33 aircraft                          |
|           | tin alloys                                 |         | . meteorites                              |          | C-35 aircraft                          |
|           | zinc alloys                                |         | stony meteorites                          | RT «     | ∞ aircraft                             |
| L         | lana antara                                |         | tektites                                  | _        |  |
|           | less rotors                                |         | bediasites                                | Beer la  |  |
| GS        | airfoils                                   | RT      | australites                               | RT       | absorptivity                           |
|           | . wings                                    | L       | I-  |          | Bouguer law                            |
|           | rotary wings                               | bedroc  |   |          | electromagnetic absorption             |
|           | lifting rotors                             | UF      | shields (geology)                         |          | molecular absorption                   |
|           | bearingless rotors                         | GS      | rocks                                     |          |  |
|           | rotating bodies                            |         | . bedrock                                 | bees     |  |
|           | . rotors                                   |         | Baltic Shield (Europe)                    | GS       | animals                                |
|           | rotary wings                               |         | batholiths                                |          | . invertebrates                        |
|           | lifting rotors                             | RT      | Earth resources                           |          | arthropods                             |

|                | insects   |                    | vertical takeoff aircraft                                    | RT       | bending                                       |
|----------------|---|--------------------|--|----------|---|
| RT             | bees  | Bell aire          | craft  |          | crack propagation destructive tests           |
| KI             | swarming  | GS                 | Bell aircraft  |          | flexural strength                             |
| beetles        |   |                    | . AH-1S helicopter   |          | fracture mechanics                            |
| GS             | animals   |                    | AH-1W helicopter   |          | fracture strength                             |
|                | . invertebrates   |                    | . AH-63 helicopter   |          | materials tests                               |
|                | insects   |                    | . Bell 214A helicopter<br>. OH-4 helicopter                  | ∞        | tests   |
|                | Coleoptera  |                    | . OH-13 helicopter   | bending  | 1   |
|                | beetles   |                    | . UH-1 helicopter  | GS       | bending                                       |
| БТ             | tribolia  |                    | . V-22 aircraft  | DT       | . elastic bending                             |
| RT             | infestation   |                    | . X-1 aircraft<br>. X-2 aircraft                             | RT       | bend tests<br>bows                            |
| behavio        | r   |                    | . X-5 aircraft   |          | buckling                                      |
|                | The way in which an organism, organ,  |                    | . X-14 aircraft  |          | camber  |
|                | substance acts in an environment or   |                    | . X-22 aircraft<br>. XV-3 aircraft                           |          | deflection                                    |
|                | s to excitation, as the behavior of steel ress, or the behavior of an animal in a |                    | . XV-3 aircraft  |          | deformation displacement                      |
| test.          | ,   | RT ∝               | ⇒ aircraft   |          | distortion                                    |
| GS             | behavior  | B . II             |  |          | elastic deformation                           |
|                | . deconditioning . human behavior   | RT                 | n theory<br>dynamic programming                              |          | Euler-Bernoulli beams fatigue tests           |
| RT             | conditioning (learning)   | 101                | optimization   |          | fiber strength                                |
|                | diagnosis   | ~                  | theories   |          | flexibility                                   |
|                | education   | bellows            |  |          | flexing                                       |
|                | extroversion<br>learning  | SN                 | (EXPANDABLE JOINTSFOR DEVICES                                |          | flutter<br>folding                            |
|                | migration   | DEF                | TO MOVE GASES, USE BLOWERS)                                  |          | heaving                                       |
|                | Skinner boxes   |                    | Mechanical structures with walls like an accordion.          |          | kinking                                       |
| Belarus        |   | GS                 | expandable structures  |          | modulus of elasticity                         |
|                | ed August 1993)   |                    | bellows  |          | plastic deformation<br>stiffness              |
| ĠS             | nations   | RT                 | expulsion bladders joints (junctions)                        |          | structural failure                            |
| DT             | . Belarus   |                    | pumps  |          | structural strain                             |
| RT             | Europe  |                    |  |          | temperature inversions twisting               |
| Belfast a      | aircraft  | <b>bells</b><br>RT | auditan, aignala   |          | warpage                                       |
| USE            | SC-5 aircraft   | KI                 | auditory signals pressure vessels                            |          |   |
| Belgian        | Congo   |                    | psychoacoustics  |          | <b>diagrams</b><br>diagrams                   |
|                | Democratic Republic of Congo  | ~                  | signals  | 93       | . bending diagrams                            |
| Daladas        |   |                    | sound generators warning                                     | RT       | deflection                                    |
|                | space program<br>ed August 1990)  |                    | warning systems  | bondine  | ı fatigue                                     |
| GS             | programs  |                    |  |          | fatigue (materials)                           |
|                | . space programs  | Beltram<br>GS      | i <b>i flow</b><br>fluid flow                                |          | . bending fatigue                             |
|                | European space programs   | 03                 | . Beltrami flow  | RT       | flexural strength                             |
| RT             | Belgian space program Belgium   | RT                 | incompressible flow  |          | metal fatigue<br>S-N diagrams                 |
|                |   |                    | steady flow  |          | o it diagrams                                 |
| Belgiun<br>GS  |   |                    | vorticity  |          | moments                                       |
| GS             | nations . Belgium   | belts              |  | GS       | moments . bending moments                     |
| RT             | Belgian space program   | SN                 | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | RT       | loading moments                               |
|                | Europe  |                    | LISTED BELOW)  |          | NASTRAN                                       |
| haliaf n       | etworks   | RT                 | asteroid belts<br>cables (ropes)                             |          | static loads                                  |
|                | ed December 1994)   |                    | fasteners  |          | stress analysis<br>structural design criteria |
|                | Artificial Intelligence technique for   |                    | girdles  |          | torque  |
| computi        | ng probabalistic information.   |                    | proton belts   | h        | -tu-valle                                     |
| GS             | Bayesian belief networks networks   |                    | pulleys radiation belts                                      |          | strength<br>flexural strength                 |
|                | . belief networks   |                    | regions  | 002      | noxurur ou ongur                              |
| RT             | artificial intelligence   |                    | Rouse belts  | bending  |   |
|                | Bayes theorem computer techniques   |                    | seat belts<br>terrestrial dust belt                          | RT       | stress analysis<br>stress intensity factors   |
|                | expert systems  |                    | torrootrial adot bott  | ∞        | theories                                      |
|                | knowledge representation  | Benard             |  |          | Trefftz method                                |
|                | neural nets<br>probability theory   | GS                 | convection . free convection                                 | bondine  | vibration                                     |
|                | probability trieory   |                    | Rayleigh-Benard convection                                   |          | vibration                                     |
| Belize         |   |                    | Benard cells   |          | . structural vibration                        |
| UF<br>GS       | British Honduras<br>nations   |                    | fluid flow . convective flow                                 | RT       | breathing vibration                           |
| 00             | . Belize  |                    | . Rayleigh-Benard convection                                 | KI       | Euler-Bernoulli beams                         |
| RT             | Caribbean region  |                    | Benard cells   |          | flutter                                       |
|                | Caribbean Sea   | RT                 | convection currents  |          | missile vibration                             |
|                | Central America   |                    | convection-diffusion equation Rayleigh number                |          | panel flutter random vibration                |
| Bell 214       | A helicopter  |                    | solar convection (astronomy)                                 |          | self induced vibration                        |
| DEF            | Sixteen-seat utility helicopter manufac-  |                    | solar granulation  | _        |   |
| tured by<br>GS | Bell Helicopter. Bell aircraft  |                    | stellar convection   |          | ohysiology) decompression sickness            |
| GS             | . Bell 214A helicopter  | benches            | 3  | USE      | uecompression sickness                        |
|                | V/STOL aircraft   | USE                |  | benefici |   |
|                | . rotary wing aircraft  | benel 4            | ata  | RT ∝     | absorption                                    |
|                | helicopters Bell 214A helicopter  | bend te<br>DEF     |  |          | adsorption aeration                           |
| RT ∝           | aircraft  |                    | ough an arc of known radius and angle.                       |          | clean fuels                                   |

|          | comminution                                |          | . multistage rocket vehicles              |          | . beryllium              |
|----------|--|----------|---|----------|--------------------------|
|          | concentrating                              |          | Berenice rocket vehicle                   |          | beryllium isotopes       |
|          |  | DT       |   |          |                          |
| ۰        | o conditioning                             | RT       | hypersonic reentry                        |          | beryllium 7              |
|          | enrichment                                 |          | solid propellant rocket engines           |          | beryllium 9              |
|          | exploitation                               |          |   |          | beryllium 10             |
|          | extraction                                 | Bergma   | an operator                               | RT       | beryl                    |
|          | filtration                                 | GS       | operators (mathematics)                   |          | moderators               |
|          | flotation                                  |          | . Bergman operator                        |          |                          |
|          | foaming                                    |          |   | hamilli. | 7                        |
|          | isotopic enrichment                        | Bering   | Sea                                       | berylliu |                          |
|          | leaching                                   | GS       | seas                                      | GS       | chemical elements        |
|          | • metallurgy                               |          | . Bering Sea                              |          | . beryllium              |
|          |  | RT       | Pacific Ocean                             |          | beryllium isotopes       |
|          | minerals                                   | 131      | I dollic occari                           |          | beryllium 7              |
|          | purification                               | berkeli  | um  |          | . nuclides               |
|          | refining                                   | GS       | chemical elements                         |          | isotopes                 |
| ۰        | o separation                               | GS       |   |          | beryllium isotopes       |
|          | settling                                   |          | . actinide series                         |          | beryllium 7              |
|          | size separation                            |          | transuranium elements                     |          | radioactive isotopes     |
|          | sublimation                                |          | berkelium                                 |          | beryllium 7              |
|          | upgrading                                  |          | . nuclides                                |          |                          |
|          | washing                                    |          | isotopes                                  |          | metals                   |
|          | wastes                                     |          | radioactive isotopes                      |          | . beryllium              |
|          | W40100                                     |          | transuranium elements                     |          | beryllium isotopes       |
| Benin    |  |          | berkelium                                 |          | beryllium 7              |
| UF       | Dohamay                                    |          | metals                                    |          |                          |
|          | Dahomey                                    |          | . actinide series                         | bondlin  | ım 0                     |
| GS       | nations                                    |          |   | berylliu |                          |
|          | . Benin                                    |          | transuranium elements                     | GS       | chemical elements        |
| RT       | Africa                                     |          | berkelium                                 |          | . beryllium              |
|          |  |          |   |          | beryllium isotopes       |
| benton   | ite  | Bermu    | da  |          | beryllium 9              |
| DEF      | A soft, plastic, porous , light colored    | GS       | landforms                                 |          | . nuclides               |
|          | mposed essentially of clay minerals of     |          | . islands                                 |          | isotopes                 |
|          | ntmorillonite group plus colloidal silica, |          | Bermuda                                   |          | beryllium isotopes       |
|          |  | RT       | Atlantic Ocean                            |          |                          |
|          | oduced by divitrification and chemical     | IXI      | Atlantic Ocean                            |          | beryllium 9              |
|          | n of a glassy igneous material, usually a  | D        | U:  |          | radioactive isotopes     |
|          | volcanic ash.                              |          | lli equation                              |          | beryllium 9              |
| RT       | montmorillonite                            | USE      | Bernoulli theorem                         |          | metals                   |
|          | soils                                      |          |   |          | . beryllium              |
|          | water treatment                            | Bernou   | ılli theorem                              |          | beryllium isotopes       |
|          |  | DEF      | In aeronautics, a law or theorem stat-    |          | beryllium 9              |
| benzen   | e  | ing that | in a flow of incompressible fluid the sum |          |                          |
| GS       | organic compounds                          |          | tatic pressure and the dynamic pressure   |          |                          |
| 00       | . cyclic compounds                         |          | a streamline is constant if gravity and   | berylliu | ım 10                    |
|          |  |          | effects are disregarded. It is named for  | GS       | chemical elements        |
|          | cyclic hydrocarbons                        |          | Bernoulli, a Swiss scientist who lived    |          | . beryllium              |
|          | benzene                                    |          | ,   |          | beryllium isotopes       |
|          | . hydrocarbons                             |          | 00 to 1782. Used for Bernoulli equation.  |          | beryllium 10             |
|          | cyclic hydrocarbons                        |          | Bernoulli equation                        |          |                          |
|          | benzene                                    | GS       | theorems                                  |          | . nuclides               |
| RT       | chlorobenzenes                             |          | . Bernoulli theorem                       |          | isotopes                 |
|          | cyclohexane                                | RT       | conservation equations                    |          | beryllium isotopes       |
|          |  |          | ∞ equations                               |          | beryllium 10             |
|          | solvent refined coal                       |          | flow equations                            |          | radioactive isotopes     |
|          | thiophenes                                 |          |   |          | beryllium 10             |
|          |  |          | fluid flow                                |          | metals                   |
|          | e poisoning                                |          | isentropic processes                      |          | . beryllium              |
| GS       | diseases                                   |          | linearization                             |          |                          |
|          | . toxic diseases                           |          | Magnus effect                             |          | beryllium isotopes       |
|          | benzene poisoning                          |          | panel method (fluid dynamics)             |          | beryllium 10             |
|          | toxicity                                   |          |   |          |                          |
|          | . benzene poisoning                        | Bernste  | ein energy principle                      | hervllir | um alloys                |
| RT       | hydrocarbon poisoning                      | GS       | structural analysis                       | GS       | alloys                   |
| KI       | , ,  | 00       |   | GS       |                          |
|          | industrial safety                          |          | energy methods                            |          | . light alloys           |
| ۰        | o poisoning                                |          | Bernstein energy principle                |          | beryllium alloys         |
|          | toxicity and safety hazard                 | K[ a     | ∞ energy                                  |          |                          |
|          | toxicology                                 |          | magnetic fields                           | hervilli | um borohydrides          |
|          |  |          |   | GS       | beryllium compounds      |
| benzilio | acid acid                                  | beryl    |   | 93       |                          |
| GS       | acids                                      | ÚF       | emerald                                   |          | . beryllium borohydrides |
|          | . carboxylic acids                         | GS       | aluminum compounds                        |          | boron compounds          |
|          | fatty acids                                |          | . beryl                                   |          | . borohydrides           |
|          | benzilic acid                              |          | alexandrite                               |          | beryllium borohydrides   |
|          |  |          |   |          | . boron hydrides         |
|          | organic compounds                          |          | beryllium compounds                       |          | beryllium borohydrides   |
|          | . carboxylic acids                         |          | . beryl                                   |          | hydrogen compounds       |
|          | fatty acids                                |          | alexandrite                               |          | . hydrides               |
|          | benzilic acid                              |          | minerals                                  |          | borohydrides             |
|          |  |          | . beryl                                   |          |                          |
| benzoid  | c acid                                     |          | alexandrite                               |          | beryllium borohydride:   |
| GS       | acids                                      |          | silicon compounds                         |          | boron hydrides           |
|          | . carboxylic acids                         |          | . silicates                               |          | beryllium borohydride    |
|          | fatty acids                                |          | beryl                                     |          |                          |
|          | benzoic acid                               |          | •   | bondli   | um chlorides             |
|          |  | DT       | alexandrite                               |          |                          |
|          | organic compounds                          | RT       | beryllium                                 | GS       | beryllium compounds      |
|          | . carboxylic acids                         |          |   |          | beryllium chlorides      |
|          | fatty acids                                | berylliu |   |          | halogen compounds        |
|          | benzoic acid                               | ĞS       | chemical elements                         |          | . chlorine compounds     |
|          |  |          | . beryllium                               |          | chlorides                |
| benzog   | uinone                                     |          | beryllium isotopes                        |          | beryllium chlorides      |
| USE      | quinones                                   |          | beryllium 7                               |          | . halides                |
| JUL      | quillones                                  |          |   |          | chlorides                |
| Doran!   | no rocket vehicle                          |          | beryllium 9                               |          |                          |
|          | ce rocket vehicle                          |          | beryllium 10                              |          | beryllium chlorides      |
| GS       | rocket vehicles                            |          | metals                                    |          | metal halides            |

... beryllium chlorides respiratory diseases weak energy interactions toxicity and safety hazard beryllium compounds toxicology betaines GS bases (chemical) GS beryllium compounds . alkaloids . beryl BESS (satellite)
DEF A propo . alexandrite A proposed NASA primate biomedical . betaines beryllium borohydrides experiment scientific satellite that was never nitrogen compounds . beryllium chlorides developed. Used for biomedical experiment sci-. alkaloids beryllium fluorides entific satellite. . betaines beryllium hydrides organic compounds UF Biomedical Experiment Scientific beryllium nitrides . cyclic compounds Satellite . beryllium oxides artificial satellites . . heterocyclic compounds GS . alexandrite BESS (satellite) . . . alkaloids RT ∞ alkaline earth compounds .... betaines RT multimission modular spacecraft ∞ chemical compounds space shuttles ∞ metal compounds metal fuels Particle accelerators in which mag-**Bessel functions** metal propellants netic induction is used to accelerate electrons. GS analysis (mathematics) GS particle accelerators . complex variables beryllium fluorides . cyclic accelerators . . Bessel functions . . betatrons GS beryllium compounds . . . Hankel functions beryllium fluorides . electron accelerators . real variables halogen compounds . . betatrons . . Bessel functions . fluorine compounds microtrons . . Hankel functions . . fluorides synchrotrons boundary value problems . . . metal fluorides differential equations . . . . beryllium fluorides Bethe-Heitler formula hypergeometric functions GS mathematical logic . halides orthogonal functions . . fluorides . formulas (mathematics) power series . . . metal fluorides . . Bethe-Heitler formula .... beryllium fluorides Bessel-Bredichin theory . . metal halides Bethe-Salpeter equation comets . . . metal fluorides GS analysis (mathematics) Kohoutek comet . real variables .... beryllium fluorides radiation pressure . Bethe-Salpeter equation ∞ theories beryllium hydrides RT differential equations beryllium compounds beryllium hydrides hydrogen compounds ∞ equations GS equations of motion In plasma physics, the ratio of the kinetic equations plasma kinetic pressure to the magnetic pres-. hydrides quantum mechanics sure. . . metal hydrides dense plasmas ... beryllium hydrides bevatron fluid pressure GS particle accelerators fusion reactors beryllium isotopes GS chemical elements . cyclic accelerators magnetic fields . . synchrotrons magnetic flux . beryllium . . bevatron . . beryllium isotopes . . . beryllium 7 . . . beryllium 9 magnetohydrodynamic stability synchrocyclotrons plasma control plasma equilibrium plasma heating bevel gears . . . beryllium 10 (added May 1999) plasma physics pressure effects . nuclides gears bevel gears . . isotopes reactor physics . spiral bevel gears ... beryllium isotopes tokamak devices RT gear teeth . . . . beryllium 7 toroidal plasmas ... beryllium 9 . . . . beryllium 10 beverages beta interactions GS liquids metals USE weak interactions (field theory) . potable liquids . beryllium . beverages beryllium isotopes ... wines ... beryllium 7 beta particles DEF Particles emitted in the radioactive decay of many radionuclides. A beta particle is ... beryllium 9 drinking . . . beryllium 10 identical to an electron. It has a short range in air ∞ food and a low ability to penetrate other materials. beryllium nitrides milk GS ionizing radiation GS beryllium compounds . beta particles beryllium nitrides **BGK** model nitrogen compounds nuclear radiation (added September 1993) . nitrides beta particles Bhatnagar-Grass-Krook model . . metal nitrides particles models ... beryllium nitrides . charged particles . mathematical models . . energetic particles **BGK** model beryllium oxides . . . plasmas (physics) Boltzmann transport equation beryllium compounds . beta particles computational fluid dynamics . beryllium oxides . corpuscular radiation kinetic equations . aléxandrite . . electron radiation kinetic theory chalcogenides ... beta particles Knudsen flow . oxides . . energetic particles molecular collisions . . metal oxides . . . plasmas (physics) molecular flow . . . alkaline earth oxides . beta particles particle collisions . . . . beryllium oxides . elementary particles rarefied gas dynamics . beta particles . . . . . alexandrite . nuclear particles Bhatnagar-Grass-Krook model beryllium poisoning beta particles USE BGK model diseases decay toxic diseases electron beams Bhutan . . beryllium poisoning electrons nations GS flux (rate) Bhutan toxicity . beryllium poisoning industrial safety Himalayas hot atoms

N electrons

relativistic electron beams

India

Sikkim

∞ poisonina

|           | Tibet  |         | universe   |                 | mixtures   |
|-----------|--|---------|--|-----------------|--|
|           |  | Righor  | n Mountains (MT-WY)                                      |                 | . binary mixtures  |
| bias      | A constant or systematic error as op-                        | GS      | landforms  | RT a            | <b>binary fluids</b><br>∞ fluids                           |
|           | o a random error. It manifests itself as a                   |         | . mountains  | IXI ·           | gas mixtures   |
|           | nt positive or negative deviation of the                     |         | Bighorn Mountains (MT-WY)                                |                 | kinetic theory   |
| method    | average from the accepted reference                          | RT      | Montana  |                 | Lennard-Jones gas  |
| value.    | bine   |         | Wyoming  |                 | transport properties                                       |
| GS        | bias<br>. response bias                                      | bights  |  | binary          | integration  |
| RT        | compensators   | ŬSE     | bays (topographic features)                              | GS              | analysis (mathematics)                                     |
|           | displacement   | hiharm  | onic equations   |                 | real variables   |
|           | electric potential   | GS      | analysis (mathematics)                                   |                 | measure and integration                                    |
|           | errors<br>instrument errors                                  |         | . real variables   | RT              | binary integration adding circuits                         |
|           | open circuit voltage   |         | differential equations                                   | 111             | digital integrators  |
|           | tube grids   |         | partial differential equations                           |                 |  |
|           | <b>G</b>   | RT      | biharmonic equations elastic properties                  |                 | mixtures   |
| bibliog   |  |         | equations  | GS              | binary systems (materials) . binary mixtures               |
| GS        | documents  |         | ·  |                 | binary fluids  |
| RT        | . bibliographies abstracts                                   | billets |  |                 | eutectics  |
| 111       | biography  | RT      | casting castings   |                 | eutectic alloys  |
|           | documentation  |         | forging  |                 | mixtures   |
|           | general overviews  |         | ingots   |                 | . binary mixtures binary fluids                            |
|           | handbooks  |         | metal plates   |                 | eutectics  |
|           | indexes (documentation) information dissemination            |         | metal strips   |                 | eutectic alloys  |
|           | information retrieval  |         | rods<br>slabs  | RT              | azeotropes   |
|           | libraries  |         | wire   |                 | gas mixtures   |
|           | literature   |         |  |                 | liquid-gas mixtures  |
| ٥         | o reference systems  | bimetal | _  | binary          | phase shift keying   |
|           | space glossaries<br>summaries                                | RT      | alloying<br>alloys                                       |                 | led February 1992)   |
|           | diffication  |         | composite materials                                      | UF              | biphase shift keying                                       |
| bicarbo   | nates  |         | functionally gradient materials                          | GS              | BPSK coding  |
| USE       | carbonates   |         | metal bonding  | GS              | . signal encoding  |
|           |  |         | metals   |                 | phase modulation   |
| bicrysta  |  | bimetri | c theories   |                 | phase shift keying   |
| GS        | crystals . bicrystals  | DEF     | Theories of gravitation.                                 |                 | binary phase shift keying                                  |
| RT        | polycrystals   | RT      | gravitation theory                                       |                 | keying . phase shift keying                                |
|           | single crystals  |         | metric space   |                 | binary phase shift keying                                  |
|           |  |         | Schwarzschild metric  theories                           |                 | modulation   |
| ∞ bicycle |  | 0       | · triedries  |                 | . phase modulation   |
| SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | binary  | alloys   |                 | phase shift keying   |
| DT        | LISTED BELOW)  | GS      | alloys   | RT              | binary phase shift keying<br>quadrature phase shift keying |
| RT        | landing gear<br>surface vehicles                             |         | . binary alloys<br>binary systems (materials)            | 13.1            | satellite transmission                                     |
|           | Surface vertices   |         | . binary alloys  |                 |  |
| bidirect  | tional reflectance   | RT      | alloying   | binary          |  |
| GS        | electromagnetic properties                                   |         | antiphase boundaries                                     | DEF<br>barycer  | Systems of two stars revolving about a                     |
|           | . optical properties   |         | cluster variation method                                 | GS              | celestial bodies   |
|           | reflectance bidirectional reflectance                        | binary  | codes  |                 | . stars  |
| RT        | light scattering   |         | Codes composed of a combination of                       |                 | double stars   |
|           | reflection   |         | each of which can assume one of two                      |                 | binary stars cataclysmic variables                         |
|           | spectral reflectance   |         | e states. Each entity must be identifiable               |                 | companion stars  |
|           | surface properties   |         | or space.<br>BCH codes                                   |                 | Nemesis (star)   |
| hifurca   | tion (biology)   | 111     | bit error rate   |                 | eclipsing binary stars                                     |
|           | The separation or branching into two                         | ۰       | ∘ codes  |                 | dwarf novae  |
|           | reas, aspects or connected segments, of                      |         | concatenated codes                                       |                 | Lambda Tauri stars Zeta Aurigae star                       |
|           | ical systems or functions.                                   |         | digital systems trellis coding                           |                 | Sigma Orionis  |
| RT        | anatomy<br>arteries  |         | trellis coding   |                 | symbiotic stars  |
|           | arterioles   | binary  |  |                 | x ray binaries   |
| ۰         | ∘ biology  | RT      | analog data  | RT              |  |
|           | blood vessels  |         | bit error rate<br>bubble memory devices                  |                 | gravitational binding energy limb darkening                |
|           | branching (physics)  | ۰       | o data   |                 | star clusters  |
|           | veins  |         | data processing  |                 | stellar parallax   |
| hifurcat  | ion (mathematics)  |         | decimal to binary converters                             |                 | stellar systems  |
| USE       | branching (mathematics)                                      |         | digital data   |                 | superhumps (astronomy) triple stars                        |
|           |  | binary  | digits   |                 | two body problem   |
|           | g cosmology  | GS      | symbols  |                 | variable stars   |
| GS        | cosmology  |         | . alphanumeric characters                                | L. t.           |  |
| RT        | . big bang cosmology<br>astronomical models                  |         | digits   | binary s<br>USE | summators adding circuits                                  |
| 11.1      | background radiation   | RT      | binary digits bit error rate                             | USE             | adding circuits  |
|           | cosmic rays  |         | bits   |                 | systems (digital)  |
|           | galactic evolution   |         | digital electronics                                      | USE             | digital systems  |
|           | gamma ray bursts<br>grand unified theory                     |         | digital systems  | hinary          | systems (materials)  |
|           | gravitational constant                                       | binary  | fluids   |                 | two phase systems  |
|           |  |         |  |                 | binary systems (materials)                                 |
|           | large-scale structure of the universe                        | GS      | binary systems (materials)                               | GS              |  |
|           | relativity relic radiation                                   | GS      | binary systems (materials) binary mixtures binary fluids | GS              | . binary alloys . binary mixtures                          |

#### binary to decimal converters

. . binary fluids telescopes planetary environments . . eutectics ∞ science . . eutectic alloys binomial coefficients RT alloys GS analysis (mathematics) space exploration combinatorial analysis space flight ∞ materials . binomial coefficients space stations phase diagrams coefficients phase separation (materials) binomial coefficients tilt-table test ∞ systems RT factorials bioavailability ternary systems binomial theorem (added August 2001) GS algebra binary to decimal converters binomial theorem data converters theorems . binary to decimal converters binomial theorem ological activity. computer components binomials ∞ converters probability density functions data processing probability theory GS availability decimal to binary converters statistical analysis . bioavailability statistical distributions RT adsorption binaural hearing exposure hearing binomials . binaural hearing algebra GS perception . polynomials pharmacology binaural hearing . binomials physiochemistry auditory perception binomial theorem sorption sound localization toxicity Weber test bioacoustics toxicology acoustics GS binders (adhesives) bioacoustics biochemical fuel cells USE adhesives acoustic attenuation auditory defects . . fuel cells auditory sensation areas binders (materials) bioengineering binders (materials) ∞ biology . propellant binders psychoacoustics . fuel cells . solid rocket binders ∞ science additives RT ∞ biology sound intensity adhesives cements ∞ materials DEF A standardized procedure for the demolding materials termination of the effects of an environmental oxetane polymers variable or substance on living organisms. Used sizing materials for biological analysis. solid lubricants biological analysis biochemistry binding biological diversity binding energy biological effects conditions. Used for BOD. bonding ∞ biology BOD collating algae ∞ biology biomarkers RT folding histochemical analysis ∞ joining ecology in vitro methods and tests printing in vivo methods and tests oximetry sealing sewing **Bioastronautical Orbital Space System** plants (botany) programs
. NASA programs pollution control water pollution binding energy . . NASA space programs
. . . Bioastronautical Orbital Space (added May 1995) water treatment binding energy . gravitational binding energy biochemistry System DFF nuclear binding energy . space programs . . NASA space programs activation energy biochemistry active sites (chemistry) ... Bioastronautical Orbital Space . biogeochemistry binding System enzymology chemical bonds RT ∞ systems electrostatic bonding physiochemistry energy bioastronautics bacteriology lattice energy The study of biological, behavioral, bioassay and medical problems pertaining to astronaubiodegradation quantum wells vacancies (crystal defects) tics. This includes systems functioning in the bioengineering environments expected to be found in space, biology vehicles designed to travel in space, and the biomarkers binding sites conditions on terrestrial bodies other than the biomimetics (added August 2004) chemical warfare USE active sites (chemistry) aerospace environments ∞ chemistry aerospace medicine cytology binocular vision astronautics enzyme inhibitors GS vision Gaia hypothesis bioengineering binocular vision biology haploscopes Biosatellite 1 motion perception Biosatellite 2 immunoassay space perception indoleacetic acids Biosatellite 3 stereoscopic vision closed ecological systems interferon Columbus space station

Earth atmosphere

hindlimb suspension

lunar environment

exobiology

head up tilt

head down tilt

space adaptation syndrome spacecraft environments The extent to which a drug, nutrient, toxin, or other substance enters the circulatory system or becomes available at a site of physibiological availability physiologic availability intravenous procedures material absorption GS electric generators . direct power generators . biochemical fuel cells electrochemical cells . biochemical fuel cells phosphoric acid fuel cells regenerative fuel cells biochemical oxygen demand DEF The amount of oxygen necessary for the oxidative decomposition of a material by microorganisms. The amount of oxygen consumed in mg/1 of water (or waste water) over a period of 5 days at 20 deg. C under laboratory oxygen consumption Chemistry dealing with the chemical processes and compounds of living organisms. genetic engineering histochemical analysis marine chemistry metabolites molecular biology mutagens nitrogen metabolism nutrition optical activity

binoculars

GS

optical equipment

. binoculars

evepieces

periscopes

microscopes

organic chemistry ∞ biology fined by the surface of a biological or nonpolymerase chain reaction biophysics biological substrate. radioimmunoassay ∞ dynamics bacteria vegetation growth ∞ science biodegradation stress (physiology) biogeochemistry bioclimatology contaminants USE biometeorology bioelectric potential extraterrestrial life GS potential energy ∞ films biocompatibility electric potential DEF Compatibility of substances with living tissues and blood components. fouling . bioelectric potential membranes bioelectricity GS compatibility microorganisms ∞ biology . biocompatibility antibodies ion channels (biology) antigens bioelectricity bioflavonoids neuron transmission ∞ biology UF vitamin P blood RT bioelectric potential GS organic compounds immunology ∞ biology . cyclic compounds leukocytes biomagnetism . . heterocyclic compounds monocytes information processing (biology) ... bioflavonoids physiological defenses ion channels (biology) vitamins vaccines myelin sheath . bioflavonoids neuromuscular transmission drugs biocontrol systems spike potentials SN (RESTRICTED TO ARTIFICIAL
BIOTECHNOLOGICAL SYSTEMS FOR
THE CONTROL OF BIOLOGICAL
PROCESSES-USE REGULATIONY
MECHANISMS (BIOLOGY) FOR NATURAL
PHYSIOLOGICAL REGULATION)
BT biofeedback bioengineering GS bioengineering biogenesis . bioinstrumentation USE biological evolution . . biotelemetry implanted electrodes (biology) ∞ biology bionics biogeny . . body measurement (biology) psychomotor performance RT ∞ biology ... anthropometry regulatory mechanisms (biology) biomarkers . . . electroplethysmography ∞ systems . . cardiography ∞ evolution tolerances (physiology) . . . ballistocardiography ontogeny . . . electrocardiography bioconversion magnetocardiography DEF The transformation of algae and/or other biomass materials in successive stages to . . . phonocardiography biogeochemistry . echocardiography aliphatic organic acids to aliphatic hydrocarbons to diesel and/or other liquid fuels. GS biochemistry . . . seismocardiography . . . vectorcardiography . . echoencephalography . biogeochemistry RT algae environmental chemistry ∞ biology . geochemistry electroencephalography biomass energy production . electromyography . biogeochemistry bioprocessing electronystagmography electroretinography RT biofilms biology enzyme activity biomarkers . . plethysmography
. . . electroplethysmography fermentation botany fuels . . radiocardiography hydrocarbon fuel production geobotany tissue engineering methane International Geosphere-Biosphere bioacoustics renewable energy program bioastronautics solar heating minerals biochemistry vegetation plants (botany) biodynamics ∞ biology biodegradability biomimetics The characteristic of a substance that bionics biography can be decomposed by microorganisms. GS dissociation biopaks ĞS literature biophysics . biography awards biodegradability bone mineral content  $RT \, \infty \, biology$ ∞ engineering bibliographies decay genetic engineering decomposition case histories human factors engineering documentation deterioration underwater breathing apparatus organic materials voice control ∞ properties biohazards biofeedback biodegradation (added August 2003) DEF Originally confined to the presenting of degradation GS USE biological hazards biodegradation a subject with sensory information about ongoing physiological activities, it now includes the activated sludge controlling of specific physiological activities biochemistry through trained mental effort. bioinstrumentation biofilms feedback biosensors ∞ biology . biofeedback bioengineering decay . . sensory feedback . bioinstrumentation decomposition aerospace medicine . . biotelemetry deterioration biocontrol systems . implanted electrodes (biology) blood pressure RT ∞ biology biodiversity conditioning (learning) USE biological diversity biometrics ∞ control bionics echoencephalography biodynamics feedback control ∞ engineering DEF The study of the effects of dynamic heart rate processes (motion, acceleration, weightlesshuman factors engineering IMBLMS ness, etc.) on living organisms. Used for biome-∞ instruments psychology magnetocardiography chanics. measuring instruments UF biomechanics biofilms anatomy respirometers RT (added July 2001)

Films of bacteria or other microbial

organisms, the growth of which is usually de-

bioengineering

biological models (mathematics)

∞ sensors

sphygmography

| wildlife radiolocation                         | protobiology   | biogeny  |
|--|--|--|
|  | biological hazards   | biogeochemistry                                    |
| biological activity                            | (added August 2003)  | bioinstrumentation<br>biological effects           |
| USE activity (biology)                         | DEF Infectious agents or biologically de-                          | biological evolution                               |
|  | rived infectious materials that cause health risks                 | biological models (mathematics)                    |
| biological analysis USE <b>bioassay</b>        | to human or animals through absorption, inha-                      | bioluminescence                                    |
| USE bloassay                                   | lation or ingestion.   | biomagnetism                                       |
| historical availability                        | UF <i>biohazards</i><br>GS hazards                                 | biomass  |
| biological availability<br>(added August 2001) | . biological hazards   | biomass energy production biomedical data          |
| USE bioavailability                            | RT contamination   | biometeorology                                     |
| oce bloavanability                             | hazardous materials  | biometrics   |
| biological cells                               | hazardous wastes   | biomimetics  |
| USE cells (biology)                            | toxic hazards  | bionics  |
| occ della (biology)                            |  | biophysics   |
| biological clocks                              | biological markers   | bioreactors  |
| USE rhythm (biology)                           | (added August 2004)<br>USE <b>biomarkers</b>                       | biosatellites                                      |
| oce myanii (siology)                           | USE DIGITAL REIS   | biosphere  |
| biological diversity                           | biological models  | biosynthesis                                       |
| (added June 1995)                              | USE bionics  | biotechnology<br>biotelemetry                      |
| DEF The diversity of genes, species, and       |  | body composition (biology)                         |
| ecosystems that make up the variety and vari-  | biological models (mathematics)                                    | body measurement (biology)                         |
| ability of life.                               | DEF Mathematical models for living sys-                            | body size (biology)                                |
| UF biodiversity                                | tems.  | body volume (biology)                              |
| genetic diversity                              | GS models  | bone demineralization                              |
| RT bioassay                                    | . mathematical models biological models (mathematics)              | bone mineral content                               |
| biological evolution                           | RT biodynamics   | botany   |
| biosynthesis                                   | ∞ biology  | carbon cycle                                       |
| cytology                                       | biomimetics  | cells (biology)                                    |
| deforestation                                  | bionics  | complement (biology)                               |
| differentiation (biology) gene expression      | digital simulation   | cytogenesis  |
| genetics                                       | dynamic models   | cytology   |
| mutations                                      | •  | differentiation (biology) ecology                  |
| protobiology                                   | biological rhythm  | embryology   |
| species diffusion                              | USE rhythm (biology)   | evolution (development)                            |
| 1  | historias I confere a securi                                       | exobiology   |
| biological effects                             | biological warfare agents  | fatigue (biology)                                  |
| GS biological effects                          | (added January 2002)<br>USE biological weapons                     | flight stress (biology)                            |
| . desynchronization (biology)                  | OOL biological weapons   | genetic engineering                                |
| . fluid shifts (biology)                       | biological weapons   | genetics   |
| . jet lag                                      | (added December 2001)  | habitats   |
| . relative biological effectiveness            | DEF Infectious agents engineered for delib-                        | immunology   |
| (RBE)  | erate use as a weapon; includes bacteria, vi-                      | implanted electrodes (biology)                     |
| RT activity (biology)                          | ruses, fungi, and other living microorganisms                      | interferon   |
| apoptosis                                      | that can kill or incapacitate.                                     | life sciences                                      |
| atrophy  | UF biological warfare agents                                       | marine biology<br>medical science                  |
| bioassay                                       | GS weapons   | microbiology                                       |
| ∞ biology<br>biomedical data                   | . biological weapons   | molecular biology                                  |
| bone demineralization                          | RT bacteria<br>chemical warfare                                    | morphology   |
| Bragg curve                                    | infectious diseases  | nitrogen metabolism                                |
| chemical effects                               | spores   | paleobiology                                       |
| disorientation                                 | terrorism  | protobiology                                       |
| dosage   | toxins and antitoxins  | radiobiology                                       |
| ∞ effects                                      | virulence  | relative biological effectiveness (RBE)            |
| flight stress (biology)                        | viruses  | reproduction (biology)                             |
| human reactions                                |  | rhythm (biology)                                   |
| Orbiting Frog Otolith                          | ∞ biology  | ∞ science  |
| pathological effects                           | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS | skin temperature (biology) tissues (biology)       |
| physiological effects                          | LISTED BELOW)  | veterinary medicine                                |
| psychological effects                          | RT activation (biology)  | Totolilary modifile                                |
| radiation dosage<br>radiation effects          | activity (biology)   |  |
| space adaptation syndrome                      | activity cycles (biology)  | bioluminescence                                    |
| temperature                                    | aerobiology  | GS emission  |
| thermal pollution                              | aerospace medicine   | . light emission                                   |
| Faranan  | aging (biology)  | luminescence                                       |
| biological evolution                           | agriculture<br>anatomy   | bioluminescence                                    |
| UF biogenesis                                  | animals  | RT ∞ biology                                       |
| GS evolution (development)                     | bacteriology   | luminescent proteins phosphorescence               |
| . biological evolution                         | bifurcation (biology)  | phosphorescence                                    |
| abiogenesis                                    | bioacoustics   |  |
| RT archaebacteria                              | bioassay   | biomagnetism                                       |
| biological diversity                           | bioastronautics  | DEF Magnetic fields surrounding parts of           |
| ∞ biology                                      | biochemical fuel cells   | the whole of a living biological system; also, the |
| chemical evolution                             | biochemical oxygen demand  | effects of magnetism on parts or the whole of      |
| eukaryotes                                     | biochemistry   | biological entity.                                 |
| Gaia hypothesis                                | biocompatibility   | GS magnetic fields                                 |
| gene expression                                | biocontrol systems   | . biomagnetism                                     |
| genetics                                       | bioconversion<br>biodogradability                                  | magnetic properties                                |
| life sciences                                  | biodegradability<br>biodegradation                                 | . <b>biomagnetism</b> RT bioelectricity            |
| mutagens<br>mutations                          | biodynamics  | ∞ biology  |
| panspermia                                     | bioelectric potential  | biophysics   |
| prokaryotes                                    | bioelectricity   | electromagnetic fields                             |
| protein synthesis                              | bioengineering   | electromagnetic interactions                       |
|  |  |  |

radiobiology **IMBLMS** 

biomarkers

(added March 2002)

Any measurable feature from which one can infer a particular environment-induced change in a biological system, detect the presence of a disease, or infer the presence of life in a particular environment.

UF biological markers clinical markers bioassay biochemistry biogeny biogeochemistry biometrics chemical indicators diagnosis environmental monitoring exobiology extraterrestrial life life detectors ∞ markers

DEF The dry weight of living matter in a given area expressed in terms of mass or weight per unit of volume or area.

GS weight (mass)
. biomass animals RT ∞ biology carbon cycle ∞ density organisms plants (botany) populations silviculture ∞ weight

signatures

toxicology

### biomass burning

(added December 1999)
DEF Burning of vegetation in forests, grasslands, and agricultural lands usually carried out to clear the land and change its use; a significant contributor to the global budgets of many radiatively and chemically active gases and particulates in the atmosphere.

GS combustion

biomass burning

air pollution climate change combustion products contaminants deforestation environment pollution man environment interactions smoke

#### biomass energy production

GS energy conversion

biomass energy production

bioconversion ∞ biology bioreactors ∞ crops ∞ energy sources energy technology hydrocarbon fuel production manures methanation renewable energy vegetation waste utilization

biomechanics

USE biodynamics

heart rate

## biomedical data

aerospace medicine biological effects ∞ biology biometrics body measurement (biology) cardiograms data

Biomedical Experiment Scientific Satellite USE BESS (satellite)

biometeorology

bioclimatology GS meteorology biometeorology RT ∞ biology

coastal ecology coastal plains ecology microclimatology nightglow phenology

#### biometrics

GS bioengineering

. biometrics

. . body measurement (biology)

. . . anthropometry

electroplethysmography

. . cardiography

. ballistocardiography

... electrocardiography
... magnetocardiography
... phonocardiography

. echocardiography seismocardiography

vectorcardiography

echoencephalography electroencephalography

electromyography

electronystagmography . . electroretinography

. . plethysmography

... electroplethysmography

. radiocardiography

bioinstrumentation

 $\infty$  biology

biomarkers biomedical data bone mineral content

∞ engineering Orbiting Frog Otolith

pupillometry statistical analysis

∞ statistics

## biomimetics

(added October 2000)

The study of biological systems as models for the development of synthetic materials, devices, sensors, and processes.

RT biochemistry

bioengineering

biological models (mathematics)

∞ biology bionics cybernetics smart materials smart structures

#### bionics

The study of systems, particularly electronic systems, which function after the manner characteristic of, or resembling living systems. Used for biological models and biosimulation.

biological models biosimulation artificial intelligence automata theory biocontrol systems bioengineering bioinstrumentation

biological models (mathematics)

biology biomimetics control systems design

cybernetics

human factors engineering man machine systems

neuristors rheoelectrical simulation

robots simulation syncoders

systems engineering

biopaks

GS support systems life support systems

biopaks

bioengineering biosatellites  $\infty \, containers$ enclosures

portable life support systems

preserving

biophysics

GS biophysics

health physics . . public health biodynamics bioengineering

∞ biology

biomagnetism ∞ physics

∞ science

biopolymer denaturation

denaturation (biopolymers) nucleic acid denaturation protein denaturation biopolymers molecular structure nucleic acids

polymer chemistry proteins

#### biopolymers GS biopolymers

. nucleic acids

. . deoxyribonucleic acid ... complementary DNA

. . ribonucleic acids

. proteins

. . albumins

. . aspartates . . calmodulin

. . elastin

. . enzymes

. . . aldolase

amidase

. . . carbonic anhydrase

catalase . . . cholinesterase

cytochromes

. . . dehydrogenases

hexokinase

. . . lysozyme

nuclease

. . . oxidase

papain

. . . pepsin

phosphatases

... protease

renin

thrombin

. . . trypsin

. . fibrin

. . globulins

. . . fibrinogen

. . . gamma globulin

. . hemoglobin

. . . carboxyhemoglobin

. oxyhemoglobin keratins

. . lipoproteins

. . luminescent proteins

. . melanin . . myoglobin

. . myosins

. . osteocalcin . . phytochrome

. . proteinoids . . prothrombin

. . protoproteins

. tumor suppressor proteins

lignin

. polysaccharides . . cellulose

. . . Fortisan (trademark)

. . chitin . . dextrans

. . glycogens

| starches   | ∞ spacecraft  | wildlife radiolocation   |
|--|---|--|
| . oligonucleotides RT biopolymer denaturation  | biosensors  | biotin   |
| nucleotides  | USE bioinstrumentation  | UF vitamin B complex   |
| ∞ polymers   |   | GS organic compounds   |
| polynucleotides  | biosimulation   | . cyclic compounds   |
| polypeptides   | USE bionics   | heterocyclic compounds   |
| hionropossing  | biosphere   | <b>biotin</b><br>vitamins  |
| bioprocessing RT aerospace environments  | DEF That transition zone between Earth                          | . biotin   |
| bioconversion  | and atmosphere within which most forms of                       | RT drugs   |
| biotechnology  | terrestrial life are commonly found; the outer                  | -  |
| electrophoresis  | portion of the geosphere and inner or lower                     | biotite  |
| microgravity   | portion of the atmosphere.<br>RT ∞ biology                      | DEF A widely distributed and important<br>rock-forming mineral of the mica group. Used for |
|  | chemosphere   | kimberlite.  |
| space processing   | Earth hydrosphere   | UF kimberlite  |
| spaceborne experiments   | free atmosphere   | GS minerals  |
| weightlessness   | Gaia hypothesis   | . mica   |
|  | homosphere<br>International Geosphere-Biosphere                 | biotite  |
| bioreactors  | program   | Biot-Savart law  |
| DEF Biological processors to remove or produce certain chemicals or a particular chemi-      | lower atmosphere  | (added August 1998)  |
| cal.   |   | DEF Law describing the intensity of a mag-   |
| RT ∞ biology   | biosynthesis  | netic field produced by a current carrying wire.   |
| biomass energy production  | RT biological diversity  ∞ biology                              | Also applied in fluid dynamics to describe the<br>flow-velocity field induced by a vortex. |
| biotechnology  | chemical reactions  | GS laws  |
| clinostats   | genetic engineering   | . Biot-Savart law  |
| tissue engineering   | metabolites   | RT electromagnetism  |
| bioregeneration  | prostaglandins  | flow velocity  |
| USE regeneration (physiology)  | ∞ synthesis   | magnetic fields  |
| (1. )  | synthetic food  | Maxwell equation vortices  |
| bioregenerative life support systems   | Biot method   | vortides   |
| USE closed ecological systems  | RT calculus of variations                                       | biphase shift keying   |
|  | ∞ methodology   | USE binary phase shift keying  |
| biorhythms   | Biot number   | hinlance   |
| USE rhythm (biology)   | DEF A standard heat transfer dimension-                         | biplanes<br>GS biplanes  |
| BIOS project   | less number.  | . AN-2 aircraft  |
| GS programs  | GS dimensionless numbers  | RT ∞ aircraft  |
| . projects   | . Biot number   | dual wing configurations   |
| . BIOS project   | ratios<br>. <b>Biot number</b>                                  | light aircraft   |
|  | RT heat transfer  | monoplanes<br>tandem wing aircraft   |
| Biosatellite 1   | ∞ numbers   | utility aircraft   |
| GS artificial satellites . biosatellites   |   | ,  |
| . Biosatellite 1   | biotechnology   | bipolar transistors  |
| RT bioastronautics   | DEF The application of engineering and                          | GS electronic equipment  |
|  | technological principles to the life sciences.  GS technologies | . solid state devices semiconductor devices  |
| Biosatellite 2   | . biotechnology   | transistors  |
| GS artificial satellites   | tissue engineering  | bipolar transistors  |
| . biosatellites<br>Biosatellite 2  | RT artificial cardiac pacemaker                                 | RT bipolarity  |
| RT bioastronautics   | artificial heart valves   | carrier injection  |
| TT bloastionautios   | ∞ biology<br>bioprocessing                                      | epitaxy<br>majority carriers   |
| Biosatellite 3   | bioreactors   | minority carriers  |
| GS artificial satellites   | blood pumps   | n-p-n junctions  |
| . biosatellites  | clone cells   | semiconductors (materials)   |
| Biosatellite 3<br>RT ∞ astronautics  | cloning (biology)   | h in a lander  |
| bioastronautics  | cultured cells<br>heart implantation                            | bipolarity  DEF Capability of assuming negative or   |
| blodoli olidatioo  | in vitro methods and tests                                      | positive values.   |
| biosatellites  | in vivo methods and tests                                       | RT bipolar transistors   |
| SN (EXCLUDES MANNED SPACECRAFT)  | man machine systems   | ∞ polarization   |
| DEF Artificial satellites which are specifi-   | stem cells  | h in an a lla ata  |
| cally designed to contain and support man, animals, or other living material in a reasonably | biotelemetry  | bipropellants USE liquid rocket propellants  |
| normal manner for an adequate period of time   | DEF The remote sensing and evaluation of                        | OSL IIquid rocket propellants  |
| and which, particularly for man and animals,   | life functions, as, e.g., in spacecraft and artificial          | bird-aircraft collisions   |
| posesses the proper means for safe return to   | satellites. Used for physiological telemetry.                   | GS accidents   |
| the Earth.   | UF physiological telemetry                                      | . aircraft accidents   |
| GS artificial satellites . biosatellites   | GS bioengineering . bioinstrumentation                          | bird-aircraft collisions collisions  |
| Biosatellite 1   | biotelemetry  | . midair collisions  |
| Biosatellite 2   | telecommunication   | bird-aircraft collisions   |
| Biosatellite 3   | . telemetry   | RT ∞ aircraft  |
| . Orbiting Frog Otolith  | biotelemetry  | aircraft hazards   |
| Sputnik 2 satellite  | transmission  | birds  |
| RT aerospace environments<br>∞ biology   | . signal transmission<br>telemetry                              | flight hazards ingestion (engines)   |
| biopaks  | biotelemetry  | ingostion (engines)  |
| environmental control  | RT ∞ biology  | birds  |
| extraterrestrial life  | communication equipment   | GS animals   |
| life detectors   | ∞ engineering   | . vertebrates  |
| life support systems<br>manned spacecraft  | Orbiting Frog Otolith<br>pneumography                           | <b>birds</b><br>chickens   |
| space capsules   | telemedicine  | pigeons  |
|  |   |  |

. . . turkeys . . waterfowl aircraft hazards bird-aircraft collisions Earth resources endangered species flight hazards homeotherms plumage wildlife

#### birefringence

DEF A double-refraction phenomenon in which an unpolarized beam of light is divided into two beams with different directions and relative velocities of propagation. The amount of energy transmitted along an optical path through a crystal which exhibits birefringence and is a function of crystalline orientation. Used for Pockels effect.

Pockels effect

GS electromagnetic properties

. optical properties

birefringence

. . Kerr electrooptical effect

refraction

. birefringence

. Kerr electrooptical effect

anisotropic media anisotropy

birefringent coatings

birefringent filters

calcite

electro-optics

Moire effects

nonlinear optics photoelasticity

polarization (waves)

reflectance

refractivity

temperature inversions

Voigt effect

#### birefringent coatings

GS coatings

. optical coatings

birefringent coatings

anisotropic media birefringence birefringent filters refractivity

#### birefringent filters

electromagnetic wave filters

. optical filters

. birefringent filters

birefringence

birefringent coatings

∞ filters

optical properties

refractivity

#### Birkeland currents

(added May 1989)

GS electric current

. field aligned currents . . Birkeland currents

. ionospheric currents

... Birkeland currents

electricity

. atmospheric electricity . . ionospheric currents

. . Birkeland currents

auroral electrojets auroral zones electroiets

geomagnetism

ionospheric disturbances magnetic disturbances

magnetic storms

Pedersen currents

#### birth

fertilization RT fetuses pregnancy reproduction (biology) reproductive systems

#### bismaleimide

GS nitrogen compounds

. amides

. . polyimides

. . bismaleimide

. imides

#### . . bismaleimide

matrix materials

polyimide resins

polymer matrix composites resin matrix composites

#### bismuth

GS chemical elements

. bismuth

. . bismuth isotopes metals

. bismuth

. . bismuth isotopes

bismuth 205

USE bismuth isotopes

### bismuth alloys

GS alloys

bismuth alloys

antimony alloys eutectic alloys magnesium alloys tin alloys

#### bismuth compounds

GS bismuth compounds

bismuth oxides

bismuth sulfides

bismuth tellurides

RT ∞ chemical compounds

∞ Group 5A compounds

∞ metal compounds

#### bismuth isotopes

UF bismuth 205

chemical elements

. bismuth

.. bismuth isotopes

. nuclides

. . isotopes

.. bismuth isotopes

metals . bismuth

. . bismuth isotopes

#### bismuth oxides

GS bismuth compounds

bismuth oxides

chalcogenides

. oxides

. . metal oxides

bismuth oxides

BSCCO superconductors

#### bismuth sulfides

bismuth compounds

bismuth sulfides

chalcogenides

. sulfides

. . inorganic sulfides . bismuth sulfides

sulfur compounds

. sulfides

. . inorganic sulfides

... bismuth sulfides

## bismuth tellurides

GS bismuth compounds

bismuth tellurides chalcogenides

. tellurides

. bismuth tellurides

tellurium compounds

. tellurides . . bismuth tellurides

#### bisphenols

hydroxyl compounds ĠS

. alcohols

. . phenols

#### ... bisphenols

Bi-Sr-Ca-Cu-O superconductors

USE BSCCO superconductors

bistable amplifiers

USE flip-flops

#### bistable circuits

. bistable circuits

. flip-flops digital techniques multivibrators

trigger circuits

bistatic radar

USE multistatic radar

### bistatic reflectivity

DEF The characteristic of a reflector which reflects energy along a line, or lines, different from, or in addition to, that of the incident ray.

RT brightness incident radiation reflectance scattering

## bit error rate

The number of erroneous bits or char-DFF acters received from some fixed number of bits transmitted.

GS rates (per time)

bit error rate RT binary codes

binary data binary digits

bit synchronization

bits

error analysis

error correcting codes error detection codes

error signals

pulse communication

Reed-Solomon codes

signal to noise ratios transmission efficiency

transmission rate (communications)

bit synchronization

GS synchronism

bit synchronization

bit error rate frequency synchronization

biternary code

RT ∞ codes differential pulse code modulation

digital systems pulse code modulation

# bits

RT binary digits bit error rate drill bits

Dark-colored (solid, semisolid, or viscous) cementitious substances, natural or manufactured, composed principally of high molecular weight hydrocarbons, of which asphalts, tars, pitches, and asphaltenes are typical.

carbon

coal

coke ∞ construction materials

lianite

∞ materials solvent refined coal

## bivariate analysis

GS statistical analysis

. variance (statistics) . . multivariate statistical analysis

. . bivariate analysis

RT correlation

# **BL** Lacertae objects

DEF One of a class of astronomical objects exhibiting; (1) rapid variations in intensity at radio, infrared, and optical wavelengths; (2) en-

#### black and white photography

ergy distributions largely at infrared wavelengths; (3) absence of discrete features in low dispersion spectra; and (4) strong and rapidly varying polarization at visual and radio wavelengths.

ĞS celestial bodies . blazars

. BL Lacertae objects

extragalactic radio sources galaxies irregular galaxies luminous intensity polarization (waves) radiant flux density radio sources (astronomy)

#### black and white photography

imagery

. photography

. black and white photography

all sky photography astronomical photography autoradiography chronophotography cinematography cloud photography color photography electron photography electro-optical photography frame photography infrared photography lunar photography photomicrography photoreconnaissance radar photography rocket-borne photography satellite-borne photography Schlieren photography shadowgraph photography spaceborne photography

urography Black Arrow launch vehicle

USE Black Knight rocket vehicle

spectroheliographs

spectrophotography

stereophotography

ultraviolet photometry

#### black body radiation

The electromagnetic radiation emitted by an ideal black body; it is the theoretical maximum amount of radiant energy of all wavelengths which can be emitted by a body at a given temperature.

electromagnetic radiation GS

. thermal radiation . black body radiation

brightness distribution

brightness temperature emissivity

heat radiators hohlraums

infrared radiation

Kirchhoff law of radiation light (visible radiation) nongray atmospheres

nongray gas Plancks constant

radiance ∞ radiation

sunlight ultraviolet radiation

#### Black Brant 1 sounding rocket

GS rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

. . Black Brant 1 sounding rocket

. sounding rockets

. . Black Brant sounding rockets

. . Black Brant 1 sounding rocket

solid propellant rocket engines

## Black Brant 2 sounding rocket

GS rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets
. . . Black Brant 2 sounding rocket

. sounding rockets

. . Black Brant sounding rockets

. Black Brant 2 sounding rocket

solid propellant rocket engines

#### Black Brant 3 sounding rocket

GS rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

... Black Brant 3 sounding rocket . sounding rockets

. . Black Brant sounding rockets

Black Brant 3 sounding rocket solid propellant rocket engines

#### Black Brant 4 sounding rocket

GS rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

... Black Brant 4 sounding rocket

. sounding rockets

. . Black Brant sounding rockets

Black Brant 4 sounding rocket

solid propellant rocket engines

#### Black Brant 5 sounding rocket

rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

... Black Brant 5 sounding rocket . sounding rockets

. . Black Brant sounding rockets

Black Brant 5 sounding rocket

solid propellant rocket engines

#### **Black Brant sounding rockets**

GS rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

. . . Black Brant 1 sounding rocket

Black Brant 2 sounding rocket

Black Brant 3 sounding rocket

... Black Brant 4 sounding rocket ... Black Brant 5 sounding rocket

. sounding rockets

. Sounding rockets
. Black Brant sounding rockets
. Black Brant 1 sounding rocket
. Black Brant 2 sounding rocket
. Black Brant 3 sounding rocket
. Black Brant 4 sounding rocket

Black Brant 5 sounding rocket

solid propellant rocket engines

Black Hawk assault helicopter

USE H-60 Helicopter

#### Black Hills (SD-WY)

GS landforms

mountains

. Black Hills (SD-WY)

RT South Dakota Wyoming

## black holes (astronomy)

GS celestial bodies

stars

. black holes (astronomy)

accretion disks RT degenerate matter event horizon

gravitational collapse gravitational lenses

massive stars

naked singularities Reissner-Nordstrom solution

supernova remnants white holes (astronomy)

x ray binaries

#### Black Knight rocket vehicle

Black Arrow launch vehicle

rocket vehicles

. multistage rocket vehicles

. . Black Knight rocket vehicle . single stage rocket vehicles

. Black Knight rocket vehicle

liquid propellant rocket engines

#### Black Sea

GS seas

Black Sea

RT Bulgaria Romania Turkey U.S.S.R.

black smokers (oceanography)

(added April 2005)

USE submarine hydrothermal vents

Blackbird aircraft

USE SR-71 aircraft

Blackburn B-103 aircraft USE Buccaneer aircraft

#### ∞ blackout

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

blackout (physiology) blackout (propagation)

#### blackout (physiology)

syncope
blackout (physiology)
blackout prevention unconsciousness

. blackout (physiology)

. blackout prevention

RT acceleration tolerance

∞ blackout

∞ coma

### blackout (propagation)

ionospheric blackout

electromagnetic interference

. radio frequency interference

.. blackout (propagation) ... polar radio blackout

atmospherics

∞ blackout electromagnetic fields electromagnetic noise ionospheric disturbances plasma sheaths plasmas (physics) radiation effects radio communication reentry communication

reentry effects solar activity effects x rays

blackout prevention GS human performance

. astronaut performance

.. blackout prevention

. pilot performance

.. blackout prevention

syncope . blackout (physiology)

blackout prevention

unconsciousness

. blackout (physiology)
. blackout prevention

RT acceleration tolerance ∞ coma

weightlessness

### bladder

GS anatomy

genitourinary system bladder prostate gland

urology bladders (mechanics)

USE diaphragms (mechanics)

#### blade slap blade-vortex interaction USE

blade slap noise Impulsive noise (short high pressure sound waves) of rotating blades, primarily helicopter blades. Used for helicopter impulsive

noise. helicopter impulsive noise UF

elastic waves GS

. sound waves

.. noise (sound)

106

|          | aircraft noise                                      |               | reactor design   |           | wave resistance                            |
|----------|---|---------------|--|-----------|--|
|          | blade slap noise                                    |               | reactor materials  |           |  |
|          | flow noise  |               |  | blastoff  |  |
|          | aerodynamic noise                                   | la la saladar | _  | USE       | rocket launching                           |
|          | blade slap noise                                    | ∞ blankin     | <del>-</del>   |           |  |
| RT       | blade tips  | SN            | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | blasts    |  |
|          | blade-vortex interaction                            |               | LISTED BELOW)  | SN        | (USE OF A MORE SPECIFIC TERM IS            |
|          | Ffowcs Williams-Hawkings equation                   | RT            | blanking (cutting)   |           | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |
|          | helicopters   |               | forming techniques   | RT        |  |
|          | propeller noise                                     |               | stamping   |           | explosions                                 |
|          |   |               |  |           | jet blast effects                          |
| blade    | ips   | la la caladar | - (tti)  |           | shock waves                                |
| GS       | tips  |               | g (cutting)  |           | sound waves                                |
|          | blade tips  | GS            | cutting  |           |  |
| RT       | airfoil profiles                                    |               | . blanking (cutting)   | Blattida  | е  |
|          | blade slap noise                                    |               | forming techniques   | USE       | cockroaches                                |
|          | blade-vortex interaction                            |               | . pressing (forming)   |           |  |
|          | propeller blades                                    | DT.           | blanking (cutting)   | blazars   |  |
|          | rotary wings  | KI o          | ∍blanking<br>laser cutting                                   |           | ed December 1988)                          |
|          | rotor blades (turbomachinery)                       |               | •  |           | Strongly optical polarized active galac    |
|          | wing tips   |               | shearing   | tic nucle | ei objects exhibiting BL Lacertae-like and |
|          |   |               | stamping   | quasar-l  | like characteristics.                      |
| blades   | i e   |               |  | GS        | celestial bodies                           |
| SN       | (USE OF A MORE SPECIFIC TERM IS                     | blanks        |  |           | . blazars                                  |
|          | RECOMMENDEDCONSULT THE TERMS                        | RT            | ammunition   |           | BL Lacertae objects                        |
| DEE      | LISTED BELOW) Arms of propeller and rotating wings. |               | briquets   | RT        | accretion disks                            |
|          | cally, restrictive, those parts of propellers       |               | forms (paper)  |           | active galactic nuclei                     |
|          | tating wings from the shank outward, i.e.,          |               | preforms   |           | active galaxies                            |
|          | parts having efficient airfoil shapes and           |               | F  |           | disk galaxies                              |
|          | ave the air. Vanes such as rotating vanes           |               |  |           | extragalactic radio sources                |
|          | onary vanes in rotary air compressors, or           | Blasius       | equation   |           | infrared astronomy                         |
|          | of turbine wheels.                                  | GS            | analysis (mathematics)                                       |           | quasars                                    |
| RT       | airfoils  |               | . real variables   |           | radio galaxies                             |
| IXI      | blades (cutters)                                    |               | differential equations                                       |           | radio sources (astronomy)                  |
|          |   |               | Blasius equation   |           | Seyfert galaxies                           |
|          | compressor blades                                   |               | flow equations   |           | , ,  |
|          | fins  |               | . boundary layer equations                                   | bleachi   | ng   |
|          | hydrofoils  |               | Blasius equation   | RT        | chlorination                               |
|          | propeller blades                                    | RT            | boundary layer flow  |           | cleaning                                   |
|          | rims  | 0             | equations  |           | fading                                     |
|          | rotary wings  |               | Falkner-Skan equation  |           |  |
|          | rotor blades (turbomachinery)                       |               | flat plates  | bleedin   | g  |
|          | stator blades                                       |               | Prandtl-Meyer expansion                                      | SN        | (USE OF A MORE SPECIFIC TERM IS            |
|          | turbine blades                                      |               |  |           | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |
|          | turbomachine blades                                 | Dist.         | a.   | RT        | boundary layer control                     |
|          | vanes   | Blasius       |  | 111       | fluid mechanics                            |
| blades   | (   | GS            | fluid flow   |           | hemorrhages                                |
|          | (cutters)   |               | . laminar flow   |           | pressure reduction                         |
| GS       | cutters   |               | Blasius flow   |           | pressure reduction                         |
|          | blades (cutters)                                    |               | . uniform flow   | bleed-or  | ff   |
| БТ       | razor blades  |               | Blasius flow   | USE       | pressure reduction                         |
| KI       | ∞ blades  | RT            | flat plates  |           | <b>P</b>                                   |
|          |   |               | head flow  | blended   | d-wing-body configurations                 |
|          | vortex interaction                                  |               | Tollmien-Schlichting waves                                   |           | ed April 2001)                             |
| UF       | blade slap  |               | turbulent flow   |           | Flight vehicle configurations that maxi    |
|          | vortex-blade interaction                            |               | two dimensional flow   |           | verall efficiency by integrating the en    |
| RT       | airfoils  |               | wedge flow   |           | vings, and the body into a single lifting  |
|          | blade slap noise                                    |               |  |           | Sometimes referred to as flying-wing       |
|          | blade tips  | blast de      | eflectors  | configur  |  |
|          | helicopters   |               | Devices used to divert the exhaust of a                      | UF        |  |
|          | interactional aerodynamics                          |               |  | 0.        | BWB configurations                         |
|          | ∞ interactions                                      | GS            | red from a vertical position. deflectors                     |           | flying wing configurations                 |
|          | rotary wings  | GS            | . blast deflectors   | GS        | , , , ,                                    |
|          | vortices  | RT            | baffles  | 00        | . body-wing configurations                 |
|          | wing tip vortices                                   | I. I          | diverters  |           | blended-wing-body                          |
|          |   |               | flame deflectors   |           | configurations                             |
| ∞ blanke |   |               | shielding  | RT        | aircraft configurations                    |
| SN       | (USE OF A MORE SPECIFIC TERM IS                     |               | Silleluling  |           | aircraft design                            |
|          | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)          |               |  |           | SR-71 aircraft                             |
| RT       |   | blast lo      | ads  |           | tailless aircraft                          |
|          | blankets (fission reactors)                         | GS            | aerodynamic forces   |           | tallicss all oran                          |
|          | blankets (fusion reactors)                          |               | . aerodynamic loads  | blended   | l-wing-fuselage                            |
|          | cloud cover   |               | blast loads  |           | ed April 2001)                             |
|          | controlled atmospheres                              |               | loads (forces)   |           | blended-wing-body configurations           |
|          | solar blankets                                      |               | . dynamic loads  | 002       | bioinada wing boay domigaratione           |
|          |   |               | aerodynamic loads  | blends    |  |
| blanke   | ts (fission reactors)                               |               | blast loads  | USE       | mixtures                                   |
|          | Damper materials for fission reactors.              |               | transient loads  | JOL       |  |
|          | ∞ blankets  |               | shock loads  | blight    |  |
|          | ∞ dampers   |               | blast loads  | GS        | plant diseases                             |
|          | fission   | RT            | aerial explosions  | 00        | . blight                                   |
|          | reactor design                                      | 131           | dynamic pressure   | RT        | alfalfa                                    |
|          | reactor materials                                   |               | explosions   | 111       | bacteria                                   |
|          |   |               | gust loads   |           | barley                                     |
| hlanko   | ts (fusion reactors)                                |               | impact loads   |           | botany                                     |
|          | Damper materials for fusion reactors.               |               | overpressure   |           | citrus trees                               |
|          | ∞ blankets  |               | pressure   |           | corn                                       |
| I. I     |   |               | pressure pulses  |           | crop growth                                |
|          |   |               |  |           | VIVA GIVYIII                               |
|          | fusion reactors                                     |               |  |           |  |
|          | limiters (fusion reactors) moderators               |               | Riemann waves<br>shock waves                                 |           | crop vigor<br>fungi                        |

### blind landing

orchards plugging .. leukocytes parasites plugs . . . eosinophils parasitic diseases prevention . . . lymphocytes plants (botany) . . . monocytes retarders (devices) retarding ... neutrophils rhizopus anemias rust fungi sealing seals (stoppers) vineyards blood stopping blood cell count blind landing blood plasma GS landing blocks hematopoiesis . blind landing RT cubes (mathematics) hematopoietic system aircraft landing pulleys hemoglobin approach indicators slabs automatic landing control blood circulation instrument approach bloedite GS circulation instrument flight rules DFF A mineral consisting of hydrous so-. blood circulation instrument landing systems dium mangnesium sulfate that is colorless. Also . . brain circulation landing instruments known as astrakanite or astrochanite. . . coronary circulation night flights (aircraft) GS minerals . . intercranial circulation . bloedite . . ocular circulation . . peripheral circulation blindness RT magnesium sulfates blindness GS sodium compounds . pulmonary circulation flash blindness sulfur compounds artificial cardiac pacemaker RT braille artificial heart valves disabilities blood blood eye diseases GS body fluids blood-brain barrier optometry blood carboxyhemoglobin vision . . fibrin circulatory system . . fibrinogen cyanosis blinds . . thrombin diastole shielding . . thromboplastin electroplethysmography ∞ shutters anemias heart conduction system biocompatibility heart function blinking blood cell count heart implantation astronomical photometry RT blood cells hematocrit display devices blood circulation hemodynamic responses eye movements blood coagulation hemodynamics visual perception blood flow hypervolemia blood groups hypovolemia blisters blood plasma intravascular system (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN blood pressure ischemia blood pumps blood vessels phonoarteriography infectious diseases . physiology blood volume rheoencephalography injuries blood-brain barrier mucoceles rheometers capillaries (anatomy) protuberances tourniquets carboxyhemoglobin test vasodilator agents rupturing cardiovascular system skin (anatomy) coagulation viruses blood coagulation heart GS coagulation Bloch band hematocrit blood coagulation hematopoiesis GS energy bands blood Bloch band hemoglobin clotting hemorrhages RT ∞ bands fibrin hypercapnia superconductivity hemostatics hypocapnia myocardial infarction block copolymers oximetry platelets (added January 1990) Rhesus factor thrombin copolymers transfusion thrombocytes block copolymers thromboplastin blood cell count copolymerization thrombosis (added August 2004) micelles DEF The number of leukocytes and erythpolybutadiene blood flow rocytes per unit volume in a sample of venous GS fluid flow ∞ polymers polystyrene blood. A complete blood count (CBC) also inblood flow cludes measurement of the hemoglobin; hemablood block diagrams tocrit, and erythrocyte indices. capillary flow RT anemias GS diagrams diastole blood block diagrams hematocrit blood cells charts hemoperfusion blood volume computer programming systole computer programs cytology tourniquets erythrocytes flow charts research management hematocrit blood groups systems analysis hematocrit ratio RT blood hematology platelets Block Island Sound (RI) hematopoiesis GS sounds (topographic features) hemoglobin blood plasma Block Island Sound (RI) blood leukocytes RT Atlantic Ocean lymphocytes blood cells body fluids Rhode Island monocytes electrolyte metabolism platelets blocking hematocrit obstructing blood cells RT ∞ arresters corpuscles (blood) blood pressure closing cells (biology) GS pressure

. blood cells

. . hemocytes

. . erythrocytes

... reticulocytes

. blood pressure

. . hypotension

. . diastolic pressure . . hypertension

closures

constraints

constrictions

containment

|         |   |          | The transfer to the contra      |           |  |
|---------|---|----------|---------------------------------|-----------|--|
|         | lower body negative pressure            |          | blowdown wind tunnels           |           | anabaena                                 |
|         | systolic pressure                       | RT       | hotshot wind tunnels            |           | Microcystis                              |
| RT      | baroreflexes                            |          | hypersonic wind tunnels         |           | Nostoc                                   |
|         | biofeedback                             |          | hypervelocity wind tunnels      |           |  |
|         |   |          |                                 |           |  |
|         | blood                                   |          | low density research            | Blue Sc   | out rocket vehicle                       |
|         | diastole                                |          | low speed wind tunnels          | GS        | launch vehicles                          |
|         | heart function                          |          | subsonic wind tunnels           |           | . Blue Scout rocket vehicle              |
|         | hemodynamic responses                   |          | supersonic wind tunnels         |           |  |
|         |   |          |                                 |           | rocket vehicles                          |
|         | hemoperfusion                           |          | transonic wind tunnels          |           | . multistage rocket vehicles             |
|         | manometers                              |          |                                 |           | Blue Scout rocket vehicle                |
|         | ophthalmodynamometry                    | blowers  |                                 | DT        |  |
|         |   |          |                                 | RI        | Algol engine                             |
|         | orthostatic tolerance                   | RT       | 6                               |           | solid propellant rocket engines          |
|         | sphygmography                           |          | air conditioning equipment      |           | X-248 engine                             |
|         | systole                                 |          | air ducts                       |           |  |
|         |   |          |                                 |           | X-254 engine                             |
|         | ∞ tension                               |          | blowing                         |           | XM-33 engine                             |
|         |   |          | centrifugal compressors         |           | · ···· · · · · · · · · · · · · · · · ·   |
| blood p | numns                                   |          | compressors                     |           |  |
|         |   |          |                                 | blue sh   | ift                                      |
| GS      | medical equipment                       |          | cooling systems                 |           |  |
|         | . blood pumps                           |          | ducted fans                     |           | ed February 2002)                        |
|         | pumps                                   |          | exhaust systems                 | DEF       | The displacement of observed spectral    |
|         |   |          |                                 | lines tow | vard the shorter wavelengths of the blue |
|         | . blood pumps                           | 00       | fans                            |           |  |
| RT      | artificial heart valves                 |          | impellers                       | end of ti | he spectrum.                             |
|         | biotechnology                           |          | injectors                       | RT        | absorption spectra                       |
|         |   |          |                                 |           | astronomical spectroscopy                |
|         | blood                                   |          | materials handling              |           |  |
|         | circulatory system                      |          | mixers                          |           | Doppler effect                           |
|         | heart                                   | ~        | nozzles                         |           | Doppler-Fizeau effect                    |
|         |   | ~        |                                 |           | emission spectra                         |
|         | pulmonary circulation                   |          | refrigerating machinery         |           | •  |
|         |   |          | sealing                         |           | energy gaps (solid state)                |
| blood   | corum                                   |          |                                 |           | photoluminescence                        |
|         |   |          | sprayers                        |           | quantum wells                            |
| (add    | led April 2004)                         |          | superchargers                   |           | •  |
| DFF     | The clear portion of blood that is left |          | turbomachinery                  |           | radial velocity                          |
|         |   |          |                                 |           | red shift                                |
|         | ood coagulation to remove blood cells   |          | ventilation                     |           | rod orint                                |
| and clo | tting proteins.                         |          | ventilation fans                |           |  |
| GS      | serums                                  |          | ventilators                     | blue sta  | are                                      |
|         |   |          | Vontilatoro                     |           |  |
|         | . blood serum                           |          |                                 | DEF       | Stars of spectral type O, B, A, or F     |
|         |   | blowing  | 1                               | accordir  | ng to the Draper catalog.                |
| blood v | vessels                                 | GS       | blowing                         | GS        | celestial bodies                         |
|         |   | 00       |                                 | 00        |  |
| GS      | anatomy                                 |          | . spanwise blowing              |           | . stars                                  |
|         | . circulatory system                    |          | . tangential blowing            |           | early stars                              |
|         | cardiovascular system                   |          | . under surface blowing         |           |  |
|         |   |          |                                 |           | hot stars                                |
|         | blood vessels                           |          | . upper surface blowing         |           | blue stars                               |
|         | arteries                                | RT       |                                 | RT        | A stars                                  |
|         |   | 111      |                                 | 131       |  |
|         | aorta                                   |          | agitation                       |           | B stars                                  |
|         | arterioles                              |          | blowers                         |           | F stars                                  |
|         | capillaries (anatomy)                   |          | boundary layer control          |           | O stars                                  |
|         |   |          |                                 |           | O stats                                  |
|         | glomerulus                              |          | circulation                     |           |  |
|         | veins                                   |          | circulation control airfoils    | Dive Ct   | !!!                                      |
| RT      |   |          |                                 | Blue St   | eel missile                              |
| IXI     | angiogenesis                            |          | compressing                     | GS        | missiles                                 |
|         | bifurcation (biology)                   |          | entrainment                     |           | . Blue Steel missile                     |
|         | blood                                   |          | exhausting                      | 5.7       |  |
|         |   |          | •                               | RT        | liquid propellant rocket engines         |
|         | carotid sinus body                      |          | externally blown flaps          |           |  |
|         | carotid sinus reflex                    |          | forced convection               |           |  |
|         | catheterization                         |          | injection                       | Blue St   | reak launch vehicle                      |
|         |   |          |                                 | GS        | launch vehicles                          |
|         | embolisms                               |          | mixing                          | 00        |  |
|         | endothelium                             | 00       | pumping                         |           | . Blue Streak launch vehicle             |
|         | fat embolisms                           |          |                                 |           | rocket vehicles                          |
|         |   |          | spraying                        |           | . Blue Streak launch vehicle             |
|         | vasoconstriction                        |          | upper surface blown flaps       | 5.7       |  |
|         | vasodilation                            |          | wind (meteorology)              | RT        | Eldo launch vehicle                      |
|         |   |          | mila (motoorology)              |           | liquid propellant rocket engines         |
|         | vasodilator agents                      |          |                                 |           | inquia propolicini rocitot originoc      |
|         | ∞ vessels                               | blown fl | aps                             |           |  |
|         |   | USE      | externally blown flaps          | Rlue St   | reak missile                             |
|         | raliuma.                                | OOL      | externally blown haps           |           |  |
|         | volume                                  |          |                                 | GS        | missiles                                 |
| RT      | blood                                   | blowoff  | (combustion)                    |           | . ballistic missiles                     |
|         | blood cell count                        | LISE     | flameout                        |           | intermediate range ballistic missiles    |
|         |   | OOL      | nameout                         |           | 3  |
|         | cardiac output                          |          |                                 |           | Blue Streak missile                      |
|         | cardiovascular system                   | blowou   | ts                              |           | . surface to surface missiles            |
|         | chronic conditions                      | RT       | fatique life                    |           |  |
|         |   | 111      | 9                               |           | intermediate range ballistic missiles    |
|         | clinical medicine                       |          | tires                           |           | Blue Streak missile                      |
|         | hematocrit                              |          |                                 |           | rocket vehicles                          |
|         |   | Blue G   | oose missile                    |           |  |
|         | hematopoietic system                    |          |                                 |           | . Blue Streak missile                    |
|         | hemodynamics                            | GS       | decoys                          | RT        | liquid propellant rocket engines         |
|         | hypervolemia                            |          | . Blue Goose missile            | 141       | ilquia propoliarit rooket eriginee       |
|         |   |          |                                 |           |  |
|         | hypovolemia                             |          | missiles                        | bluopris  | ata.                                     |
|         | stroke volume                           |          | . surface to air missiles       | blueprii  |  |
|         | otrono volumo                           |          | Blue Goose missile              | GS        | documents                                |
|         |   | 5.7      |                                 |           | . drawings                               |
| blood-l | brain barrier                           | RT       | booster rocket engines          |           | 9  |
| DFF     | A mechanism which maintains the con-    |          | countermeasures                 |           | engineering drawings                     |
|         |   |          |                                 |           | blueprints                               |
|         | of the neurons in the central nervous   |          | J-85 engine                     | RT        | layouts                                  |
| system  | by preventing certain substances from   |          | solid propellant rocket engines | L/ I      | •  |
|         |   |          |                                 |           | reproduction (copying)                   |
|         | the bloodstream and entering the neural |          |                                 |           |  |
| tissue. |   |          | een algae                       |           |  |
|         | ∞ barriers                              | UF       | Cyanophyta                      | bluff bo  | odies                                    |
| 171     |   |          |                                 |           |  |
|         | blood                                   | GS       | plants (botany)                 | DEF       | Bodies having a broad, flattened front,  |
|         | blood circulation                       |          | . algae                         | as in so  | me reentry vehicles.                     |
|         |   |          |                                 |           | blunt bodies                             |
|         | central nervous system                  |          | blue green algae                |           |  |
|         | neurons                                 |          | anabaena                        | ~         | o bodies                                 |
|         |   |          | Microcystis                     |           | ducted bodies                            |
| hla '   | num usinal tummal-                      |          |                                 |           |  |
|         | own wind tunnels                        |          | Nostoc                          |           | forebodies                               |
| GS      | test facilities                         |          | . thermophilic plants           |           | lifting bodies                           |
|         |   |          |                                 |           |  |
|         | . wind tunnels                          |          | blue green algae                |           | reentry vehicles                         |

| Roshko prediction  | RT              | afterbodies  |               | body composition (biology)                            |
|--|-----------------|--|---------------|---|
| bluffs (landforms)   |                 | skirts<br>tail assemblies  | RT •          | biology     chemical composition                      |
| USE cliffs   |                 | tall assembles   |               | exoskeletons  |
| blunt bodies   | BOD             |  |               |   |
| RT aerodynamic configurations  | USE             | biochemical oxygen demand  | body fl<br>GS |   |
| aerodynamics   | ∞ bodies        |  | 00            | . blood   |
| axisymmetric bodies  | SN              | (USE OF A MORE SPECIFIC TERM IS  |               | fibrin  |
| bluff bodies<br>∞ bodies   |                 | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                               |               | fibrinogen  |
| ducted bodies  | RT              | afterbodies  |               | thrombin  |
| forebodies   |                 | axisymmetric bodies  |               | thromboplastin . cerebrospinal fluid                  |
| missile bodies   |                 | bluff bodies   |               | . endolymph   |
| nose cones   |                 | blunt bodies<br>bodies of revolution                                     |               | . lymph   |
| power law bodies   |                 | celestial bodies   |               | . mucus   |
| stagnation point symmetrical bodies                                    |                 | centerbodies   |               | . saliva  |
| by minorital boulds  |                 | ducted bodies  |               | . sweat<br>. urine                                    |
| blunt leading edges  |                 | elastic bodies   | RT            | blood plasma  |
| DEF The obtuse cross sections of certain                               |                 | finned bodies flexible bodies  |               | diuresis  |
| front edges of airfoils or wings.  GS edges                            |                 | foreign bodies   |               | edema   |
| . leading edges  |                 | Herbig-Haro objects  |               | electrolyte metabolism<br>fluid shifts (biology)      |
| blunt leading edges  |                 | human body   | ٥             | ofluids   |
| RT airfoils  |                 | lenticular bodies  |               | isotonicity   |
| forebodies   |                 | lifting bodies maneuverable reentry bodies                               |               | lysozyme  |
| trailing edges   |                 | missile bodies   |               | mineral metabolism                                    |
| blunt trailing edges   |                 | planforms  |               | obesity   |
| DEF The rounded or obtuse angled trailing                              |                 | plastic bodies   |               | perspiration secretions                               |
| edges of wings and/or control surfaces designed                        |                 | pyramidal bodies   |               | water   |
| to enhance aerodynamic characteristics.  GS edges                      |                 | reentry vehicles rotating bodies   |               | water balance   |
| trailing edges   |                 | slender bodies   | أما يرام ما   | in a matica   |
| blunt trailing edges   |                 | solids   | GS            | inematics kinematics                                  |
| RT airfoils  |                 | streamlined bodies   | 00            | . body kinematics                                     |
| control surfaces   |                 | symmetrical bodies   | RT            | acceleration (physics)                                |
| wings  |                 | three dimensional bodies towed bodies                                    |               | acceleration stresses (physiology)                    |
| blurring   |                 | two dimensional bodies   |               | kinetics particle theory                              |
| RT aberration  |                 |  |               | velocity  |
| resolution<br>spatial filtering  |                 | of revolution  |               | •   |
| spatial littering  | DEF<br>describe | Symmetrical bodies having the form ed by rotating a plane curve about an |               | neasurement (biology)                                 |
| BMC  |                 | ts plane.  | SN            | (LIMITED TO BIOLOGICAL APPLICATIONSFOR MEASUREMENT OF |
| USE bone mineral content   | GS              | symmetrical bodies   |               | NON-BIOLOGICAL BODIES USE SIZE                        |
| BMEWS  |                 | bodies of revolution   | GS            | DETERMINATION)<br>bioengineering                      |
| USE Ballistic Missile Early Warning                                    |                 | conical bodies   | 00            | . biometrics  |
| System   |                 | slender cones cylindrical bodies   |               | body measurement (biology)                            |
| DO 405 halfaratas  |                 | rotating cylinders   |               | anthropometry   |
| BO-105 helicopter GS Bolkow aircraft                                   |                 | parabolic bodies   | PT .          | electroplethysmography<br>∞ biology                   |
| . BO-105 helicopter  |                 | power law bodies   | IXI V         | biomedical data                                       |
| passenger aircraft   |                 | celestial sphere   |               | electrocardiography                                   |
| . BO-105 helicopter  |                 | concentric spheres   |               | electroencephalography                                |
| utility aircraft   |                 | falling spheres  |               | electrophysiology  engineering                        |
| . <b>BO-105 helicopter</b><br>V/STOL aircraft                          |                 | Poincare spheres   | 0             | human body  |
| . rotary wing aircraft   |                 | rotating spheres   |               | human factors engineering                             |
| helicopters  | RT              | toruses aerodynamic configurations                                       |               | obesity   |
| military helicopters   | IXI             | aerodynamics   |               | size determination                                    |
| BO-105 helicopter  |                 | axes of rotation   | ٥             | ∘ sizing  |
| boards (paper)   |                 | axisymmetric bodies  | body si       | ize (biology)   |
| UF "fiberboard   | 0               | bodies<br>cones  |               | anthropometry   |
| RT ∞ construction materials  |                 | disks (shapes)   | ٥             | ∘ biology   |
| paper (material)   |                 | ellipsoids   |               | obesity   |
| papers   |                 | finned bodies  | hody s        | way test  |
| boats  |                 | geometry   | GS            | physiological tests                                   |
| GS surface vehicles  | 0               | hemispheres<br>hemispherical shells                                      |               | body sway test  |
| . boats lifeboats  |                 | ogives   | RT •          | ∞ equilibrium   |
| water vehicles   | 0               | rings  |               | head down tilt vertical perception                    |
| . boats  |                 | spherical shells   |               | vestibular tests                                      |
| lifeboats  |                 | streamlined bodies   |               |   |
| RT amphibious vehicles<br>harbors                                      | body ce         | entered cubic lattices   |               | emperature  |
| inflatable structures  | UF              | BCC lattices   | SN            | (LIMITED TO TEMPERATURE OF BIOLOGICAL BODIES)         |
| keels  | GS              | crystal lattices   | GS            | temperature   |
| ∞ military vehicles  |                 | . cubic lattices   |               | body temperature                                      |
| research vehicles  | RT              | body centered cubic lattices close packed lattices                       | RT            | cold tolerance  |
| ships<br>underwater vehicles   | IXI             | cluster variation method   |               | fever<br>heat acclimatization                         |
| anaciwater vernoles  |                 | crystals   |               | heat stroke   |
| boattails  |                 | face centered cubic lattices   |               | heat tolerance  |
| DEF The rear portions of elongated bodies,                             | hader -         | omnosition (highery)   |               | homeostasis   |
| as in rockets, having decreasing cross-sectional area toward the rear. | GS              | omposition (biology)<br>composition (property)                           |               | homeotherms<br>humidity                               |
|  | 00              |  |               |   |

| hyperthermia  | passenger aircraft                                  | . Boeing 757 aircraft                             |
|---|---|---|
| hypothermia   | . Boeing 720 aircraft                               | RT ∞ aircraft                                     |
| perspiration  | transport aircraft                                  | TT GIROTAIT                                       |
| poikilothermia  | . Boeing 720 aircraft                               | Boeing 767 aircraft                               |
| shivering   | RT ∞ aircraft                                       | DEF Boeing's widebodied medium range              |
| thermoreceptors   | Ter so anoran                                       | commercial transport aircraft that made its first |
| thermoregulation  | Boeing 727 aircraft                                 | flight on September 26, 1981.                     |
| vasoconstriction  | GS Boeing aircraft                                  | GS Boeing aircraft                                |
| vasodilation  | . Boeing 727 aircraft                               | . Boeing 767 aircraft                             |
| Vasodilation  | commercial aircraft                                 | commercial aircraft                               |
| body temperature (non-biological)                                       | . Boeing 727 aircraft                               | . Boeing 767 aircraft                             |
| USE temperature   | jet aircraft  | jet aircraft                                      |
| OOL temperature   | . turbofan aircraft                                 | . turbofan aircraft                               |
| body temperature regulation   | Boeing 727 aircraft                                 | Boeing 767 aircraft                               |
| USE thermoregulation  | passenger aircraft                                  | monoplanes  |
| OOL thermoregulation  | . Boeing 727 aircraft                               | . Boeing 767 aircraft                             |
| body volume (biology)   | transport aircraft                                  | passenger aircraft                                |
| GS volume   | . Boeing 727 aircraft                               | . Boeing 767 aircraft                             |
| . body volume (biology)   | RT ∞ aircraft                                       | transport aircraft                                |
| RT ∞ biology  |   | . Boeing 767 aircraft                             |
| obesity   | cargo aircraft                                      | RT ∞ aircraft                                     |
| obosity   | Booing 733 aircraft                                 | cargo aircraft                                    |
| body weight   | Boeing 733 aircraft GS Boeing aircraft              |   |
| GS weight (mass)  | •   | turbofan engines                                  |
| . body weight   | . Boeing 733 aircraft                               | Boeing 777 aircraft                               |
| RT obesity  | commercial aircraft                                 | (added September 1994)                            |
| •   | . Boeing 733 aircraft                               | GS Boeing aircraft                                |
| weightlessness  | jet aircraft  | 8   |
| hady wing and tail configurations                                       | . turbofan aircraft                                 | . Boeing 777 aircraft                             |
| body-wing and tail configurations  UF wing-body and tail configurations | Boeing 733 aircraft                                 | commercial aircraft                               |
|   | monoplanes  | Boeing 777 aircraft                               |
| GS aerodynamic configurations   | . Boeing 733 aircraft                               | jet aircraft                                      |
| body-wing and tail configurations                                       | supersonic aircraft                                 | Boeing 777 aircraft                               |
| RT ∞ configurations   | . Boeing 733 aircraft                               | passenger aircraft                                |
| fuselages   | transport aircraft                                  | . Boeing 777 aircraft                             |
| tail assemblies   | . Boeing 733 aircraft                               | transport aircraft                                |
| wings   | RT ∞ aircraft                                       | . Boeing 777 aircraft                             |
|   | variable sweep wings                                | RT ∞ aircraft                                     |
| body-wing configurations  |   |   |
| UF wing-body configurations   | Boeing 737 aircraft                                 | Boeing 2707 aircraft                              |
| GS aerodynamic configurations   | GS Boeing aircraft                                  | GS Boeing aircraft                                |
| . body-wing configurations  | Boeing 737 aircraft                                 | . Boeing 2707 aircraft                            |
| blended-wing-body configurations  | commercial aircraft                                 | commercial aircraft                               |
| RT airfoils   | . Boeing 737 aircraft                               | . supersonic commercial air transport             |
| drooped airfoils  | jet aircraft  | Boeing 2707 aircraft                              |
| GAW-2 airfoil   | . turbofan aircraft                                 | jet aircraft                                      |
| wings   | Boeing 737 aircraft                                 | . Boeing 2707 aircraft                            |
| •   | monoplanes  | passenger aircraft                                |
| Boeing 707 aircraft   | . Boeing 737 aircraft                               | . Boeing 2707 aircraft                            |
| GS Boeing aircraft  | passenger aircraft                                  | supersonic aircraft                               |
| . Boeing 707 aircraft   | . Boeing 737 aircraft                               | . supersonic transports                           |
| commercial aircraft   | transport aircraft                                  | supersonic commercial air                         |
| . Boeing 707 aircraft   | . Boeing 737 aircraft                               | transport   |
| jet aircraft  | RT ∞ aircraft                                       | Boeing 2707 aircraft                              |
| . turbofan aircraft   |   | transport aircraft                                |
| Boeing 707 aircraft   | cargo aircraft                                      | . Boeing 2707 aircraft                            |
| monoplanes  | Boeing 747 aircraft                                 | RT ∞ aircraft                                     |
| . Boeing 707 aircraft   | •   | N1 ∞ all Clait                                    |
| passenger aircraft  | GS Boeing aircraft                                  | Boeing aircraft                                   |
|   | . Boeing 747 aircraft                               | UF Vertol military helicopters                    |
| . Boeing 707 aircraft<br>transport aircraft                             | commercial aircraft                                 | , ,   |
| •   | Boeing 747 aircraft                                 |   |
| . Boeing 707 aircraft   | jet aircraft  | . B-47 aircraft<br>. B-50 aircraft                |
| RT ∞ aircraft   | Boeing 747 aircraft                                 |   |
| Danima 747 sinonett   | passenger aircraft                                  | . B-52 aircraft                                   |
| Boeing 717 aircraft   | Boeing 747 aircraft                                 | . Boeing 707 aircraft                             |
| (added October 1998)  | transport aircraft                                  | . Boeing 717 aircraft                             |
| GS Boeing aircraft  | Boeing 747 aircraft                                 | . Boeing 720 aircraft                             |
| Boeing 717 aircraft   | RT ∞ aircraft                                       | . Boeing 727 aircraft                             |
| commercial aircraft   | SOFIA (airborne observatory)                        | . Boeing 733 aircraft                             |
| . Boeing 717 aircraft   | turbofan engines                                    | . Boeing 737 aircraft                             |
| jet aircraft  | X-34 reusable launch vehicle                        | . Boeing 747 aircraft                             |
| . turbofan aircraft   |   | . Boeing 757 aircraft                             |
| Boeing 717 aircraft   | Boeing 747B aircraft                                | . Boeing 767 aircraft                             |
| monoplanes  | USE E-4A aircraft                                   | . Boeing 777 aircraft                             |
| Boeing 717 aircraft   |   | . Boeing 2707 aircraft                            |
| passenger aircraft  | Boeing 757 aircraft                                 | . C-135 aircraft                                  |
| . Boeing 717 aircraft   | DEF Boeing's twin turbofan short/medium             | . CH-21 helicopter                                |
| transport aircraft  | range transport aircraft that made its first flight | . CH-46 helicopter                                |
| . Boeing 717 aircraft   | on February 19, 1982.                               | . CH-47 helicopter                                |
| RT ∞ aircraft   | GS Boeing aircraft                                  | . CH-62 helicopter                                |
|   | . Boeing 757 aircraft                               | . E-3A aircraft                                   |
| Boeing 720 aircraft   | commercial aircraft                                 | . E-4A aircraft                                   |
| GS Boeing aircraft  | . Boeing 757 aircraft                               | . H-25 helicopter                                 |
| . Boeing 720 aircraft   | jet aircraft  | . V-22 aircraft                                   |
| commercial aircraft   | . turbofan aircraft                                 | . VZ-2 aircraft                                   |
| . Boeing 720 aircraft   | Boeing 757 aircraft                                 | . X-20 aircraft                                   |
| jet aircraft  | monoplanes  | . X-20 aircraft                                   |
| . turbofan aircraft   | . Boeing 757 aircraft                               | RT ∞ aircraft                                     |
| Boeing 720 aircraft   | passenger aircraft                                  | AWACS aircraft                                    |
| monoplanes  | passenger aircraft . <b>Boeing 757 aircraft</b>     | McDonnell Douglas aircraft                        |
| monopianes  | DOMAIN (3) AUCTAN                                   | ivici johneli Ljoudias alterati                   |
| . Boeing 720 aircraft   | transport aircraft                                  | X-45 aircraft                                     |

YC-14 aircraft ∞ fireballs threads meteor trails Boltzmann distribution Bogoliubov theory meteorites RT BBGKY hierarchy meteoroid showers distribution (property) Boltzmann distribution ∞ theories Pribram meteorite atmospheric density atmospheric diffusion bogs Bolivia marshlands USE GS nations kinetic theory Bolivia statistical mechanics Bohr magneton two fluid models RT South America A constant equivalent to the magnetic DEF moment of an electron. **Boltzmann transport equation Bolkow aircraft BBGKY** hierarchy GS constants **Bolkow aircraft** BGK model Bohr magneton BO-105 helicopter Burnett equations RT electrons RT ∞ aircraft Chapman-Enskog theory magnetic moments ∞ equations Fokker-Planck equation boll weevils Bohr theory GS animals GS theoretical physics hydrodynamic equations . invertebrates . quantum theory kinetic theory . . arthropods . Bohr theory particle diffusion . . . insects electron transitions statistical mechanics . . . . Coleoptera line spectra transport properties . . boll weevils ∞ theories transport theory bollworms cotton **Boltzmann-Vlasov equation** bohrium infestation (added May 1998)  $RT \, \infty \, equations$ chemical elements high temperature plasmas bollworms bohrium Maxwell equation animals GS hassium partial differential equations . invertebrates seaborgium wave equations . . arthropods . . . insects boiler plate Bolza problems . . bollworms structural members RT optimization larvae ∞ problems . plates (structural members) bollworms . . metal plates RT boll weevils **BOMARC A missile** boiler plate corn RT thick walls GS missiles cotton . antiaircraft missiles fruits . . BOMARC missiles boilers infestation ... BOMARC A missile steam generators moths GS heating equipment . surface to air missiles . . BOMARC missiles boilers bolograms RT external combustion engines ... BOMARC A missile USE bolometers furnaces liquid propellant rocket engines generators solid propellant rocket engines bolometers heat balance Instruments which measure the inten-**BOMARC B missile** pressure vessels sity of radiant energy by employing thermally sensitive electrical resistors; a type of actinom-GS missiles steam . antiaircraft missiles vaporizers eter. Used for bolograms. . . BOMARC missiles waste energy utilization bolograms ... BOMARC B missile GS measuring instruments boiling . surface to air missiles . radiation measuring instruments UF ebullition . . BOMARC missiles GS phase transformations bolometers . . BOMARC B missile RT Dicke radiometers liquid propellant rocket engines . vaporizing electrical measurement solid propellant rocket engines . . boiling heat measurement . . . film boiling infrared detectors **BOMARC** missiles . . . nucleate boiling GS missiles photometers . . Leidenfrost phenomenon potentiometers (instruments) . antiaircraft missiles effervescence radiation pyrometers .. BOMARC missiles evaporation radiometers ... BOMARC A missile evolution (liberation) resistance thermometers ... BOMARC B missile heat transfer temperature measurement . surface to air missiles heating temperature measuring instruments .. BOMARC missiles x ray detectors . . . BOMARC A missile boiling water reactors ... BOMARC B missile GS nuclear reactors bolted joints . liquid cooled reactors bomb calorimeters Joints fastened with bolts. They are . . water cooled reactors usually designed for heavy loads. GS measuring instruments ... boiling water reactors . calorimeters joints (junctions) . . . . experimental boiling water GS . . bomb calorimeters bolted joints reactors drop calorimeters RT ... Halden Boiling Water Reactor bolts flame calorimeters . . . Los Alamos Water Boiler lap joints heat measurement Reactor riveted joints high temperature tests .... Pathfinder nuclear reactor scarf joints temperature measuring instruments . . . . Spert reactors nuclear power reactors bolts ∞ bombardment nuclear research and test reactors GS fasteners (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . bolts . . rock bolts LISTED BELOW)
electron bombardment
hypervelocity projectiles DEF Brilliant meteors, especially ones . tiebolts which explode; detonating fireballs. anchors (fasteners) celestial bodies bolted joints GS irradiation . meteoroids couplings meteoritic damage . . bolides holders sputtering . . Cyrillid meteoroids nuts (fasteners)

screws

studs (structural members)

bomber aircraft

GS attack aircraft

RT

atmospheric entry

atmospheric heating

| . bomber aircraft   | systems engineering                               | weightlessness                                 |
|---|---|--|
| A-2 aircraft  | Dand number                                       | hana danaitu                                   |
| A-3 aircraft<br>A-4 aircraft                                    | Bond number<br>(added December 1999)              | bone density<br>(added August 2004)            |
| A-4 aircraft  | DEF Dimensionless number representing             | USE bone mineral content                       |
| A-6 aircraft  | the ratio between gravitational force and the     | OOL Done mineral content                       |
| B-1 aircraft  | surface tension of a bubble, drop, or meniscus.   | bone formation                                 |
| B-2 aircraft  | GS dimensionless numbers                          | (added January 2005)                           |
| B-26 aircraft   | . Bond number                                     | USE osteogenesis                               |
| B-47 aircraft   | RT drops (liquids)                                | _  |
| B-50 aircraft   | gravitational effects                             | bone marrow                                    |
| B-52 aircraft   | interfacial tension                               | GS tissues (biology)                           |
| B-57 aircraft   | menisci   | . connective tissue                            |
| B-58 aircraft   | 11.199.6  | bone marrow                                    |
| B-66 aircraft   | bonded joints<br>(added March 1993)               | RT bones<br>cancer                             |
| B-70 aircraft   | UF bondlines                                      | erythrocytes                                   |
| F-111 aircraft<br>Shackleton bomber                             | GS joints (junctions)                             | hematopoiesis                                  |
| Valiant aircraft  | . bonded joints                                   | hematopoietic system                           |
| Victor MK-1 aircraft  | RT adhesive bonding                               | leukemias                                      |
| Vulcan aircraft   | bonding   | leukocytes                                     |
| RT ∞ aircraft   | rocket engine cases                               | lymphatic system                               |
| antisubmarine warfare aircraft                                  | rocket linings                                    | monocytes                                      |
| bombing equipment   | scarf joints                                      | osteogenesis                                   |
| F-117A aircraft   | soldered joints                                   | to a substitution of the second                |
| jet aircraft  | solid propellant rocket engines                   | bone mineral content                           |
| ∞ military aircraft   | welded joints                                     | UF BMC   |
| ∞ military aviation   | handing   | bone density GS content                        |
| tanker aircraft   | bonding DEF Specifically, a system of connections | . bone mineral content                         |
| training aircraft   | between all metal parts of an aircraft or other   | RT bioengineering                              |
| Vampire MK 35 aircraft  | structure forming a continuous electrical unit    | ∞ biology                                      |
| bombing equipment   | and preventing jumping or arching of static       | biometrics                                     |
| GS onboard equipment  | electricity. Glueing or cementing together for    | bones  |
| . aircraft equipment  | structural strength.                              | calcium carbonates                             |
| bombing equipment   | GS bonding  | calcium phosphates                             |
| RT B-1 aircraft   | . adhesive bonding                                | collagens                                      |
| bomber aircraft   | . agglutination                                   | minerals                                       |
| bombs (ordnance)  | . ceramic bonding                                 | osteoblasts                                    |
| ∞ equipment   | . explosive welding                               | osteocalcin                                    |
| fire control  | . inertia bonding                                 | osteogenesis                                   |
|   | . metal bonding                                   | osteoporosis                                   |
| ∞ bombs   | metal-metal bonding . reaction bonding            | bones  |
| SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | resin bonding                                     | GS anatomy                                     |
| LISTED BELOW)   | RT adhesion                                       | . musculoskeletal system                       |
| RT bombs (ordnance)   | adhesion tests                                    | bones  |
| precision guided projectiles                                    | beam leads  | femur  |
| pressure gages  | binding   | pelvis   |
| samplers  | bonded joints                                     | scapula  |
| hamba (ardnanas)  | cementation                                       | skull  |
| bombs (ordnance)  DEF Explosive devices designed to be          | chemical bonds                                    | cranium  |
| detonated under specified conditions.                           | cohesion  | intracranial cavity                            |
| GS explosive devices  | cold welding                                      | mastoids                                       |
| . bombs (ordnance)  | debonding (materials)                             | spine  |
| RT ammunition   | diffusion welding                                 | vertebrae                                      |
| B-1 aircraft  | ∞ joining   | sternum<br>tibia                               |
| bombing equipment   | joints (junctions)<br>laminates                   | ulna   |
| ∞ bombs   | laser welding                                     | RT arthritis                                   |
| explosives  | sealing   | bone demineralization                          |
| incendiary ammunition   | soldering   | bone marrow                                    |
| missiles  | superplastic forming                              | bone mineral content                           |
| nuclear weapons   | welding   | calcification                                  |
| projectiles<br>pyrotechnics                                     |   | cartilage                                      |
| shaped charges  | bondlines   | chin   |
| torpedoes   | USE bonded joints                                 | connective tissue                              |
| warheads  | Dandas metacrite                                  | exoskeletons                                   |
|   | Bondoc meteorite GS celestial bodies              | joints (anatomy)<br>lamella                    |
| bombs (pressure gages)  | . meteorites                                      | osteoblasts                                    |
| USE pressure gages  | stony meteorites                                  | osteocalcin                                    |
|   | achondrites                                       | osteogenesis                                   |
| bombs (samplers)  | Bondoc meteorite                                  | osteoporosis                                   |
| USE samplers  |   | spinal cord                                    |
|   | bone demineralization                             | splints  |
| Bonanza aircraft  | GS demineralizing                                 |  |
| USE C-35 aircraft   | bone demineralization                             | Bonne projection                               |
| hand manks  | diseases  | DEF A type of conical map projection in        |
| bond graphs   | . bone demineralization                           | which meridians are plotted as curves and the  |
| GS charts   | RT biological effects                             | parallels are spaced along them at true dis-   |
| . graphs (charts)<br><b>bond graphs</b>                         | ∞ biology   | tances.<br>RT mapping                          |
| RT control systems design                                       | bones<br>hindlimb suspension                      | RT mapping<br>maps                             |
| differential equations  | osteoblasts                                       | ∞ projection                                   |
| dynamic models  | osteocalcin                                       | p. 0,0000011                                   |
| mathematical models   | osteogenesis                                      | Boolean algebra                                |
| ∞ mathematics   | osteoporosis                                      | DEF The study of the manipulation of sym-      |
| simulation  | physiological effects                             | bols representing operations according to the  |
| systems analysis  | physiology  | rules of logic. Boolean algebra corresponds to |

#### **Boolean functions**

an algebra using only the numbers 0 and 1, solid propellant rocket engines RT borohydrides therefore can be used in programming digital spinning solid upper stage computers which operate on the binary prinstage separation borates sustainer rocket engines GS boron compounds GS mathematical logic turborocket engines . borates . lattices (mathematics) TX-354 engine . lithium borates . . Boolean algebra boric acids . . Boolean functions ∞ oxygen compounds ∞ booster rockets RT algebra (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN ∞ conjunction Borazon (trademark) LISTED BELOW) instruction sets (computers) USE boron nitrides launch vehicles ∞ logic set theory borders switching theory RT boundaries (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) transistor logic margins ∞ unions rims air breathing boosters **Boolean functions** amplifiers Bordoni peaks GS functions (mathematics) RT elastic deformation apogee boost motors . Boolean functions booster rocket engines plastic deformation mathematical logic boosters (explosives) resonant frequencies . lattices (mathematics) launch vehicles stress relaxation . . Boolean algebra Scout project . . . Boolean functions Space Shuttle Boosters boredom detachment Titan project ∞ boom human behavior (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN human reactions boosters (explosives) lethargy explosive devices booms (equipment) monotony . initiators (explosives) sonic booms psychological effects boosters (explosives) psychology tail assemblies ianiters space flight stress . initiators (explosives) booms (equipment) boosters (explosives) positioning devices (machinery) boreholes RT ∞ hoosters booms (equipment) DEF Holes made by drilling into the ground exploding wires to study stratification, to search for or to obtain natural resources, or to release underground boostglide vehicles pressures Vehicles designed to glide in the atmoboost RT cavities sphere following a rocket-powered phase. Por-USE acceleration (physics) clays tions of the flights may be ballistic, out of the drilling booster recovery atmosphere. excavation expendable stages (spacecraft) GS gliders exploration recoverable launch vehicles boostglide vehicles geology ∞ recovery . . X-20 aircraft gravels reentry vehicles
. boostglide vehicles recovery parachutes ∞ holes spacecraft recovery minerals X-20 aircraft pits (excavations) booster rocket engines RT aerospace planes rocks rocket boosters ∞ aircraft shales GS engines Astro vehicle soils . rocket engines gliding . . booster rocket engines hypersonic aircraft . AJ-10 engine Borel sets hypersonic gliders GS analysis (mathematics) . . . Algol engine lifting reentry vehicles . real variables . apogee boost motors manned spacecraft . . measure and integration . . . H-1 engine recoverable spacecraft LR-87-AJ-5 engine . Borel sets rocket planes mathematical logic . . . M-1 engine ∞ vehicles ... M-55 engine ... MA-2 engine . set theory . . Borel sets boots (footwear) RT probability theory MA-3 engine GS clothing MA-5 engine boots (footwear) bores . Nike booster rocket engines RT shoes USE cavities . P-1 engine rocket engine 9KS-11000 Boral borescopes Space Shuttle Boosters GS composite materials USE endoscopes . . . . Advanced Solid Rocket Motor Boral (STS) composite structures . . X-405 engine boresight error . laminates DEF Linear displacement between two parair breathing boosters . Boral allel lines of sight. Ares 1 first stage RT aluminum Ares 5 cargo launch vehicle GS errors boron carbides Blue Goose missile . position errors radiation shielding ∞ boosters . boresight error burnout air navigation Delta 4 Heavy launch vehicle boranes boresights ducted rocket engines GS boron compounds directional antennas expendable stages (spacecraft) . boron hydrides displacement displacement measurement F-1 rocket engine . . boranes hybrid propellant rocket engines . . . carborane error analysis internal combustion engines instrument errors ... hydrazine borane line of sight communication launch vehicles pentaboranes navigation instruments liftoff (launching) hydrogen compounds liquid propellant rocket engines . hydrides optical tracking Mace missiles . . boron hydrides range errors ... boranes nuclear engine for rocket vehicles nuclear rocket engines
oxygen-hydrocarbon rocket engines . . . . carborane boresights

.... hydrazine borane

. . . . pentaboranes

boresight error

directional antennas

RT

recoverable spacecraft

optical tracking boron carbides ... hydrazine borane carbon compounds . pentaboranes boric acids hydrogen compounds . carbides GS acids boron carbides . hydrides boric acids .. boron hydrides Boral boron compounds aluminum borohydrides ceramic fibers boric acids ... beryllium borohydrides RT borates boron chlorides ... boranes boron compounds . . . . carborane borides boron chlorides . . . . hydrazine borane GS boron compounds halogen compounds . . pentaboranes . borides . chlorine compounds RT borohydrides . . chromium borides . . chlorides titanium borides . boron chlorides boron isotopes RT intermetallics . halides GS chemical elements . . chlorides . metalloids boring machines ... boron chlorides . . boron tools ... boron isotopes . machine tools boron compounds . . . . boron 10 . boring machines GS boron compounds . nuclides drills RT . borates . . isotopes ∞ machinery . lithium borates ... boron isotopes boric acids . . . . boron 10 Born approximation . borides Born-Mayer equation . . chromium borides boron nitrides analysis (mathematics) titanium borides UF Borazon (trademark) . numerical analysis . borohydrides GS boron compounds . . approximation aluminum borohydrides boron nitrides . . Born approximation beryllium borohydrides nitrogen compounds RT ∞ equations boron carbides . nitrides quantum mechanics boron chlorides . boron nitrides scattering cross sections boron fluorides RT carbon nitrides . boron hydrides Born-Infeld theory aluminum borohydrides boron oxides electrodynamics . . beryllium borohydrides GS boron compounds electrostatics . . boranes . boron oxides Maxwell equation . . . carborane chalcogenides nonlinear equations . hydrazine borane . oxides ∞ theories . pentaboranes . . boron oxides . boron nitrides . boron oxides Born-Mayer equation boron phosphides USE Born approximation boron phosphides GS boron compounds boron phosphides diborane Born-Oppenheimer approximation phosphorus compounds organic boron compounds analysis (mathematics) phosphides tourmaline . numerical analysis boron phosphides RT ∞ chemical compounds . . approximation ∞ Group 3A compounds ... Born-Oppenheimer boron reinforced materials high energy fuels approximation GS composite materials metal fuels RT Franck-Condon principle boron reinforced materials metal propellants . . aluminum boron composites borohydrides . boron-epoxy composites boron fibers boron compounds DEF RT boron Fibers produced by vapor deposition . borohydrides aluminum borohydrides ceramic matrix composites methods; used in various composite materials to beryllium borohydrides impart a balance of strength and stiffness. epoxy resins fiber composites GS fibers hydrogen compounds . reinforcing fibers fibers . hydrides . boron fibers ∞ materials . . borohydrides RT aluminum boron composites plastics ... aluminum borohydrides Borsic (tradename) reinforced plastics . . beryllium borohydrides carbon fibers reinforcing fibers RT boranes composite materials boron hydrides boron trifluoride fiber composites fiber orientation USE boron fluorides boron fiber strength chemical elements GS . metalloids ∞ filaments boron-epoxy composites glass fibers composite materials . . boron boron reinforced materials ... boron isotopes metal matrix composites . . boron-epoxy composites polymer matrix composites . . . boron 10 . polymer matrix composites boron reinforced materials reinforced plastics . . epoxy matrix composites Borsic (tradename) boron-epoxy composites boron fluorides . resin matrix composites boron trifluoride boron 10 boron compounds boron-epoxy composites GS chemical elements . metalloids boron fluorides aircraft structures . . boron halogen compounds ∞ chemical compounds . . . boron isotopes . fluorine compounds composite structures . . . . boron 10 . . fluorides epoxy resins boron fluorides fiber composites . nuclides . halides laminates . . isotopes . . fluorides plastic aircraft structures ... boron isotopes ... boron fluorides spacecraft components . . . . boron 10 superhybrid materials boron alloys boron hydrides boron compounds borosilicate glass GS allovs boron hydrides DEF Low expansion heat resistant glass. boron alloys . . aluminum borohydrides Used for Pyrex (trademark). RT metalloids . . beryllium borohydrides UF Pyrex (trademark) boron carbides . . boranes GS glass

. . . carborane

GS boron compounds

. borosilicate glass

#### **Borsic (tradename)**

RT glassware .... meson resonance . free boundaries honeycomb mirrors . . . . . X mesons . grain boundaries silicon dioxide airspace . . . . muons . . . . omega-mesons borders Borsic (tradename) boundary conditions . . . . pions Trademark of United Aircraft Products, circumferences . . . . vector mesons Inc. for its boron aluminum composite materials. contour sensors . . . . . rho-mesons composite materials . sigma-mesons delineation . metal matrix composites . . . photons fences (barriers) Borsic (tradename) interfaces . xi hyperons aluminum Bose-Einstein condensates regions boron charged particles boron fibers Fermi-Dirac statistics boundary conditions fiber composites quantum statistics (added July 1990) standard model (particle physics) ∞ materials GS conditions boundary conditions metal fibers string theory metals supersymmetry . perfectly matched layers boundaries boundary element method Bose geometry botany GS geometry GS boundary layers botany . geobotany boundary value problems . Bose geometry agriculture equations of state RT Trefftz method alfalfa vortex lattice method Bose-Chaudhuri-Hocquenghem codes barley boundary detection (imagery)
USE edge detection USE BCH codes biogeochemistry ∞ biology **Bose-Einstein condensates** blight (added February 1996) brown wave effect brush (botany) boundary element method condensates DEF Technique for solving two- and three-Bose-Einstein condensates dimensional boundary value problems in therchaparral modynamics, mechanics, etc. atom optics citrus trees analysis (mathematics) corn condensed matter physics . numerical analysis farm crops . . approximation ideal gas fruits ... boundary element method relativistic effects genetically modified plants superfluidity . . . Trefftz method green wave effect RT boundary conditions habitats Bose-Einstein statistics stress analysis quantum statistics leguminous plants boundary integral method oats Bosnia DEF Technique related to the boundary elplants (botany) (added June 1996) ement method, and used for laminar and turbu-∞ science USE Bosnia and Herzegovina lent flow problems. silviculture GS analysis (mathematics) . numerical analysis sugar beets Bosnia and Herzegovina sugar cane (added June 1996) . . boundary integral method tomatoes Bosnia procedures vegetation growth Herzegovina boundary integral method vineyards GS nations RT boundary value problems ∞ zoology Bosnia and Herzegovina ∞ methodology Croatia Botswana Europe boundary layer combustion GS nations Serbska Republic combustion Botswana Yugoslavia boundary layer combustion boundary layers Republic of South Africa boson fields combustible flow RT field theory (physics) convective heat transfer bottles ∞ fields RT ∞ containers diffusion flames mesons flasks flame propagation laminar boundary layer glassware bosons tanks (containers) reacting flow particles . elementary particles boundary layer control . . bosons DEF A relationship describing the rate of laminar flow control ... alpha particles boundary layer control decrease of flux density of a plane-parallel beam . . . Higgs bosons of monochromatic radiation as it penetrates a . porous boundary layer control . . . mesons medium which both scatters and absorbs at that aerodynamics ... eta-mesons wavelength. Used for Lambert law. airfoil fences ... hyperons Lambert law bleeding . . . . xi hyperons RT absorptivity blowing kaons boundary layers Beer law buffeting . . . . meson resonance electromagnetic absorption . X mesons circulation control airfoils thermoplasticity . . . . muons ∞ control control surfaces ... omega-mesons boules . . . . pions drag devices GS crystals . . . . vector mesons boules fluid amplifiers .... rho-mesons single crystals flutter . sigma-mesons jet control . . . photons boundaries leading edge slats lift augmentation . xi hyperons peripheries lift devices . nuclear particles boundaries . . bosons . core-mantle boundary riblets . . . alpha particles . fluid boundaries spoilers . . . Higgs bosons . . gas-solid interfaces tangential blowing . . . mesons . . jet boundaries turbulence . . liquid-liquid interfaces upper surface blown flaps . . . . eta-mesons liquid-solid interfaces .... hyperons vacuum vortex generators . xi hyperons . . liquid-vapor interfaces

. antiphase boundaries

wing slots

. . . . kaons

X-21 aircraft

#### boundary layer equations

GS flow equations

boundary layer equations

. Blasius equation

boundary layers

differential equations

 $\infty$  equations flow theory

Reynolds averaging

### boundary layer flow

fluid flow

. viscous flow

.. boundary layer flow

... reattached flow

... secondary flow

... separated flow

... boundary layer separation

RT air currents

atmospheric boundary layer

backward facing steps Blasius equation

boundary layer thickness

convective heat transfer

flow distribution

forward facing steps

Lighthill gas model

Magnus effect

recirculative fluid flow Reynolds number

stagnation flow

stagnation point

Tollmien-Schlichting waves

wall flow

boundary layer noise

USE aerodynamic noise boundary layers

#### boundary layer plasmas

Plasmas resulting from the frictional heat of hypersonic spacecraft entering the Earth's atmosphere.

GS particles

. charged particles

. . energetic particles

. . . plasmas (physics)

. . . boundary layer plasmas . corpuscular radiation

. . energetic particles . . . plasmas (physics)

# ... boundary layer plasmas

aerodynamic heating aerothermodynamics boundary layers hypersonic reentry plasma physics

plasma sheaths

#### boundary layer separation

breakaway

flow separation

laminar boundary layer separation

GS fluid flow

. viscous flow

. . boundary layer flow

. . . separated flow

#### ... boundary layer separation

aerodynamic stalling airspeed angle of attack

boundary layers Crocco-Lee theory

∞ diffusers

Falkner-Skan equation

flow distribution

injection

Kutta-Joukowski condition

lift drag ratio reattached flow recirculative fluid flow

reversed flow rotating stalls ∞ separation

stagnation flow

stalling

sweep angle

vortex generators

zero lift

#### boundary layer stability

dynamic characteristics

. dynamic stability

. . motion stability

. . . flow stability

. boundary layer stability

. flow characteristics

. . flow stability

. boundary layer stability

stability

. dynamic stability

. . motion stability

. . . flow stability

... boundary layer stability

aerodynamic stability

backwash

boundary layers

Goertler instability Reynolds number

boundary layer thickness

(added September 1995)

(LIMITED TO FLUID DYNAMICS, DO NOT USE FOR PLANETARY OR CORE MANTLE BOUNDARIES) thickness

GS

boundary layer thickness

boundary layer flow flow distribution pressure gradients surface layers transition flow

# boundary layer transition

air currents

boundary layers

Ekman layer

Goertler instability

Knudsen flow

laminar boundary layer

laminar flow

molecular flow

Reynolds number three dimensional boundary layer

Tollmien-Schlichting waves

∞ transition

transition flow

∞ transition layers

transition points turbulence

turbulent boundary layer

turbulent flow

boundary layers
UF boundary layer noise

boundary layers
. atmospheric boundary layer

compressible boundary layer hypersonic boundary layer incompressible boundary layer

laminar boundary layer

planetary boundary layer

supersonic boundary layers

thermal boundary layer

three dimensional boundary layer

turbulent boundary layer

two dimensional boundary layer

RT asthenosphere

boundary conditions boundary layer combustion

boundary layer control

boundary layer equations boundary layer plasmas

boundary layer separation boundary layer stability

boundary layer transition core-mantle boundary

Crocco method ∞ draft drag

fluid boundaries

fluid flow

gas-solid interfaces ∞ lavers

liquid-liquid interfaces liquid-solid interfaces mixing layers (fluids)

panel method (fluid dynamics)

shear layers surface layers wall pressure

#### boundary lubrication

lubrication

. boundary lubrication

bearings lubricants

squeeze films vapor phase lubrication

wear resistance

#### boundary value problems

DEF Physical problems completely specified by a differential equation in an unknown, valid in a certain region of space, and certain information (boundary condition) about the un-known, given on the boundaries of that region. Known, given on the boundaries of that region. The information required to determine the solution depends completely and uniquely on the particular problem. Used for initial value problems and point matching method (mathematics).

initial value problems

point matching method (mathematics)

boundary value problems

Cauchy problem

Dirichlet problem Neumann problem

Bessel functions

boundary conditions

boundary integral method

counter rotation Crank-Nicholson method

differential equations finite element method

finite volume method half planes

half spaces

Hankel functions

ill-posed problems (mathematics) Lame functions Mathieu function

minimal surfaces Monge-Ampere equation

observability (systems) ∞ problems

Sobolev space

three dimensional bodies

# Trefftz method

**Bourdon tubes** GS transducers

. pressure sensors

pressure gages pressure measurement

∞ tubes

**Boussinesq approximation** DEF The assumption (frequently used in the

theory of convection) that the fluid is incompressible except insofar as the thermal expan-

sion produces a buoyancy. convection

heat transfer

incompressible fluids perturbation theory thermal expansion

bow shock waves

USE shock waves

bow waves DEF Shock waves in front of a body, such as an airfoil, or apparently attached to the forward tip of the body.

RT hypersonic wakes Mach cones magnetosheath shock waves surface waves

### $\infty$ bows

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

bending camber forebodies

|         | heaving  |          | Bragg reflectors                             | RT             | brain   |
|---------|--|----------|--|----------------|---|
| box be  | ams  |          | interferometers optical fibers               | banda ta       |   |
|         | structural members   |          | optical libers                               | brain inj      |   |
| 00      | . beams (supports)   |          | optical litters                              |                | ed August 2004)                                   |
|         | box beams  |          |  | USE            | brain damage                                      |
| RT a    | ∞ boxes  | Bragg m  |  | hrain of       | am.   |
|         | cantilever beams   |          | ed August 1997)                              | brain st<br>GS | anatomy   |
|         | girders  | USE      | Bragg reflectors                             | 00             | . nervous system                                  |
|         | rectangular beams  |          |  |                | central nervous system                            |
|         |  | Bragg r  | eflectors                                    |                | brain   |
| ∞ boxes |  |          | ed August 1997)                              |                | brain stem  |
| SN      | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |          | Bragg mirrors                                |                |   |
|         | LISTED BELOW)  | GS       | reflectors                                   | ∞ brakes       |   |
| RT      |  |          | . Bragg reflectors                           | SN             | (USE OF A MORE SPECIFIC TERM IS                   |
|         | boxes (containers)   | RT       | Bragg angle                                  |                | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)        |
| havea   | (aantainara)   |          | Bragg gratings                               | RT             | brakes (for arresting motion)                     |
|         | <b>(containers)</b><br>∞ boxes                               |          | DBR lasers                                   |                | brakes (forming or bending)                       |
|         | ∞ buckets  |          | gallium arsenides<br>mirrors                 |                | , , ,   |
|         | cases (containers)   |          | semiconductor lasers                         | brakes         | (for arresting motion)                            |
| c       | ∞ containers   |          | Seriiconductor lasers                        | UF             | decelerators                                      |
|         | packages   |          |  |                | dragulators                                       |
|         |  |          | composites                                   | GS             | brakes (for arresting motion)                     |
| BPSK    |  |          | ed November 1992)                            |                | . aerodynamic brakes                              |
| USE     | binary phase shift keying                                    | GS       | composite materials                          |                | ballutes  |
|         |  |          | . fiber composites                           |                | drag chutes                                       |
| bracke  |  | DT       | braided composites                           |                | split flaps                                       |
| RT      | anchors (fasteners)  | KI       | carbon fiber reinforced plastics             |                | wing flaps  |
|         | fasteners  |          | epoxy matrix composites                      |                | leading edge flaps                                |
|         | fixtures<br>holders  |          | graphite-epoxy composites reinforcing fibers |                | leading edge slats trailing edge flaps            |
|         | mounting   |          | three dimensional composites                 |                | vortex flaps                                      |
|         | mounting   |          | woven composites                             |                | . aircraft brakes                                 |
| bradyc  | ardia  |          | woven composited                             |                | split flaps                                       |
|         | rates (per time)   |          |  |                | wing flaps  |
|         | . heart rate   | braille  |  |                | leading edge flaps                                |
|         | bradycardia  | DEF      | A system of writing that uses charac-        |                | leading edge slats                                |
|         | signs and symptoms   |          | le up of raised dots. It was named after     |                | trailing edge flaps                               |
|         | . bradycardia  | Louis Br |  |                | vortex flaps                                      |
| RT      | heart diseases   | RT       | blindness                                    |                | . wheel brakes                                    |
| _       |  |          | embossing                                    | RT             | abort apparatus                                   |
| Bragg   |  |          |  |                | antiskid devices                                  |
|         | The angle between the incident beam                          | brain    |  | ~              | arresters   |
|         | lattice planes considered.                                   | GS       | anatomy                                      |                | arresting gear                                    |
| GS      | geometry   |          | . nervous system                             | ~              | brakes  |
|         | . Euclidean geometry   |          | central nervous system                       |                | braking   |
|         | angles (geometry) Bragg angle                                |          | brain  |                | cylindrical chambers                              |
| RT      | Bragg gratings   |          | brain stem                                   |                | drag devices<br>flaps (control surfaces)          |
| IXI     | Bragg reflectors   |          | cerebellum                                   |                | landing gear                                      |
|         | crystallography  |          | cerebral ventricles                          |                | nose wheels                                       |
|         | DBR lasers   |          | cerebrum                                     |                | parachutes  |
|         | diffraction  |          | cerebral cortex                              |                | retarders (devices)                               |
|         | diffraction paths  |          | occipital lobes                              |                | thrust reversal                                   |
|         | electron diffraction   |          | diencephalon                                 |                | towed bodies                                      |
|         | isotropy   |          | hypothalamus                                 |                | vehicle wheels                                    |
| c       | ∞ orientation  |          | pineal gland<br>thalamus                     |                | wheels  |
| c       | ∞ physical properties  |          | hippocampus                                  |                |   |
|         | radiography  | RT       | angiography                                  | brakes         | (forming or bending)                              |
| _       |  | 131      | brain circulation                            |                | brakes  |
| Bragg   |  |          | brain damage                                 |                | metal working                                     |
|         | led September 1988)  |          | cerebrospinal fluid                          |                |   |
| GS      | modulators   |          | echoencephalography                          | braking        |   |
| RT      | . Bragg cells acousto-optics                                 |          | electroencephalography                       | RT             | brakes (for arresting motion)                     |
| IXI     | amplitude modulation   |          | encephalitis                                 |                | deceleration                                      |
|         | crystal optics   |          | head (anatomy)                               |                | eddy currents                                     |
|         | light beams  |          | information processing (biology)             |                | retarders (devices)                               |
|         | light modulation   |          | intracranial pressure                        |                | retarding   |
|         | phase demodulators   |          | neuroglia                                    |                | thrust reversal                                   |
|         | phase modulation   |          | neurology                                    |                |   |
|         | ultrasonic light modulation                                  |          | pituitary gland                              |                | ng (mathematics)                                  |
|         | · ·  |          | psychiatry                                   |                | The appearance of a new solution of a             |
| Bragg   | curve  |          | psychology<br>rheoencephalography            |                | atical equation at some critical value of         |
|         | A curve showing the average specific                         |          | spinal cord                                  |                | eter, as a result of which there may be           |
|         | on of an ionizing particle of a particular                   |          | Spirial Colu                                 |                | an one solution (different branches) of           |
|         | a function of its kinetic energy, velocity,                  |          |  |                | ation. Used for bifurcation (mathematics)         |
|         | lual range.  |          | rculation                                    | GS             | bifurcation (mathematics) branching (mathematics) |
| RT      | biological effects   | GS       | circulation                                  | GS             | . period doubling                                 |
|         | nuclear reactions  |          | . blood circulation                          | RT             | chaos   |
|         | particle interactions  |          | brain circulation                            | 13.1           | functions (mathematics)                           |
|         | radiation effects  | RT       | brain  | ~              | logic   |
| Brann   | gratings   |          | rheoencephalography                          |                | mathematical logic                                |
|         | ed August 1997)  |          |  |                | set theory  |
| GS      | gratings (spectra)   | brain da | amage  |                | switching theory                                  |
| 50      | . Bragg gratings   | UF       | brain injuries                               |                | -   |
| RT      | apodization  | GS       | injuries                                     | branchi        | ng (physics)                                      |
|         | Bragg angle  |          | . brain damage                               |                | bifurcation (biology)                             |
|         |  |          |  |                |   |

∞ physics system failures soils breeder reactors breakers (electric) brasses USE circuit breakers GS nuclear reactors alloys GS . breeder reactors . copper alloys . . Experimental Breeder Reactor 1 breaking . . brasses Experimental Breeder Reactor 2 RT destruction ... light water breeder reactors fragmentation Bravais crystals . liquid metal fast breeder reactors separation Enrico Fermi atomic power plant GS crystals . Bravais crystals nuclear power reactors breakup (spacecraft) crystal growth USE spacecraft breakup crystal lattices breeding (reproduction) fertility crystal structure breakwaters genetics packing density DEF Offshore structures (such as moles, heredity single crystals walls, or jetties) that by breaking the force of reproduction (biology) waves, protect harbors, anchorages, beaches, Brayton cycle or shore areas. Used for jetties and sea walls. Breguet 940 aircraft DEF A thermodynamic cycle consisting of UF jetties GS Breguet aircraft two constant-pressure processes interspersed sea walls . Breguet 940 aircraft with two constant-antropy cycles. Named after concrete structures monoplanes George B. Brayton, American engineer. harbors . Breguet 940 aircraft GS cycles littoral drift research vehicles . thermodynamic cycles littoral transport . research aircraft . . Brayton cycle oceanography Breguet 940 aircraft gas turbine engines structural design V/STOL aircraft gas turbines ∞ structures . short takeoff aircraft Rankine cycle underwater engineering . . Breguet 940 aircraft solar dynamic power systems underwater structures RT ∞ aircraft water waves ∞ waves Breguet 941 aircraft Brazil GS Breguet aircraft GS nations breast . Breguet 941 aircraft Brazil (added August 2004) jet aircraft RT Amazon region (South America) DEF In humans, one of the paired regions in . turboprop aircraft Brazilian space program the anterior portion of the thorax. .. Breguet 941 aircraft South America GS anatomy monoplanes . chest . Breguet 941 aircraft Brazilian space program . . breast passenger aircraft The space program of Brazil which is . . . mammary glands Brequet 941 aircraft under the jurisdiction of the Instituto de Pesquicancer transport aircraft sas Espaciais (INPE). thorax . cargo aircraft GS programs Breguet 941 aircraft space programs ∞ breathing V/STOL aircraft . Brazilian space program (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . short takeoff aircraft SN RT Brazil . . Breguet 941 aircraft RT ∞ aircraft argon-oxygen atmospheres brazing breathing apparatus Breguet 1150 aircraft GS welding breathing vibration Atlantic aircraft . fusion welding emergency breathing techniques antisubmarine warfare aircraft
. Breguet 1150 aircraft
attack aircraft . gas welding expiration . . . brazing helium-oxygen atmospheres . . . low temperature brazing high altitude breathing Breguet 1150 aircraft RT fluxes hypercapnia Breguet aircraft
. Breguet 1150 aircraft ∞ joining hyperpnea metal bonding oxygen breathing jet aircraft sealing respiration . turboprop aircraft soldering respiratory reflexes . . Breguet 1150 aircraft ultrasonic soldering monoplanes breathing apparatus . Breguet 1150 aircraft breathing apparatus GS Brazzaville reconnaissance aircraft oxygen masks USE Congo (Brazzaville) . Breguet 1150 aircraft underwater breathing apparatus RT ∞ aircraft  $RT \, \infty \, breathing$ breadboard models ∞ equipment Breguet aircraft DEF Assemblies of preliminary circuits or fire fighting GS Breguet aircraft parts used to prove the feasibility of a device, life support systems . Breguet 940 aircraft circuit, system, or principle without regard to the oxygen supply equipment . Breguet 941 aircraft final configuration or packaging of the parts. portable life support systems Breguet 1150 aircraft models GS respirators RT ∞ aircraft . breadboard models Jaguar aircraft circuits breathing vibration printed circuits vibration GS bremsstrahlung product development . structural vibration DEF Electromagnetic radiation produced by prototypes . breathing vibration the rapid change in the velocity of an electron or bending vibration RT another fast, charged particle as it approaches ∞ breathing an atomic nucleus and is deflected by it. In breakaway exhausting USE boundary layer separation German it means braking radiation. missile vibration GS electromagnetic radiation venting . bremsstrahlung Cerenkov radiation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT TERMS LISTED BELOW) classifications diffraction radiation breccia electron photon cascades GS rocks . breccia electron radiation electrical faults far ultraviolet radiation RT ataxite failure gamma ray bursts igneous rocks gamma ravs regolith gaps

sedimentary rocks

metal working

nuclear radiation

|           | relativistic plasmas                      |          | vision   |          | o of viscous heating to convective heat         |
|-----------|---|----------|--|----------|---|
|           | synchrotron radiation                     | 1.2.14   | and the state of t |          | rates through the flow boundary.                |
|           | x rays                                    |          | ness discrimination  | GS       | dimensionless numbers                           |
| D         |   | GS       | discrimination . sensory discrimination  |          | . Brinkman number                               |
|           | er angle                                  |          | brightness discrimination  |          | ratios  |
| GS        | geometry . Euclidean geometry             | RT.      | ∞ illumination   | РT       | . Brinkman number channel flow                  |
|           | . angles (geometry)                       | IXI      | visual perception  | KI       | convective heat transfer                        |
|           | Brewster angle                            |          | visual perception  |          | Couette flow                                    |
| RT        | polarization characteristics              | briahtr  | ess distribution   |          | Nusselt number                                  |
| 17.1      | reflection                                |          | The statistical distribution based on  |          | viscous flow                                    |
|           | refractivity                              |          | ess, or the distribution of brightness over  |          | wall temperature                                |
|           | remactivity                               |          | face of an object.   |          | wall temperature                                |
| bricks    |   |          | distribution (property)  | briquet  | e   |
| DEF       | Solid masonry units of clay or shale,     |          | . brightness distribution  |          | blanks  |
|           | formed into a rectangular prism while     |          | electromagnetic properties   | 101      | pellets   |
|           | and burned or fired in a kiln. Bricks are |          | . optical properties   |          | tablets   |
|           | products.                                 |          | brightness distribution  |          | tabloto   |
|           | masonry                                   |          | statistical distributions  | Bristol. | Siddeley BS 53 engine                           |
|           | . bricks                                  |          | . brightness distribution  | UF       |   |
| RT        | cements                                   | RT       | astrophysics   | GS       | engines   |
|           | ceramics                                  |          | black body radiation   | 00       | . air breathing engines                         |
|           | clays                                     |          | brightness   |          | gas turbine engines                             |
| 0         | o construction materials                  |          | brightness temperature   |          | jet engines                                     |
|           | mortars (material)                        |          | ∞ distribution   |          | turbojet engines                                |
|           | ( )                                       |          | galactic radiation   |          | turbofan engines                                |
| ∞ bridges | <b>i</b>                                  |          | photography  |          | Bristol-Siddeley BS 53                          |
| SŇ        | (USE OF A MORE SPECIFIC TERM IS           |          | radiant flux density   |          | engine  |
|           | RECOMMENDEDCONSULT THE TERMS              |          | radio astronomy  |          | internal combustion engines                     |
| DT        | LISTED BELOW)                             |          | solar granulation  |          | gas turbine engines                             |
| RT        |   |          | stellar luminosity   |          | jet engines                                     |
|           | bridges (structures)                      |          | ,  |          | turbojet engines                                |
|           | electric bridges                          | brightr  | less temperature   |          | turbojet engines                                |
|           | liquid bridges                            | DEF      | In astrophysics, the temperature of a  |          | Bristol-Siddeley BS 53                          |
|           |   | black b  | ody radiating the same amount of energy  |          | engine  |
| _         | (landforms)                               | per uni  | t area at the wavelengths under consid-  |          | turbine engines                                 |
| GS        | landforms                                 | eration  | as the observed body. The temperature  |          | gas turbine engines                             |
|           | bridges (landforms)                       | of a nor | nblack body determined by measurement  |          | jet engines                                     |
| RT •      | ∘ bridges                                 |          | optical pyrometer.   |          | turbojet engines                                |
|           | geology                                   | GS       | temperature  |          | turbojet engines                                |
| 0         | ∘ ridges                                  |          | brightness temperature   |          | Bristol-Siddeley BS 53                          |
|           |   | RT       | astrophysics   |          | engine  |
|           | (structures)                              |          | black body radiation   | RT       | P-1127 aircraft                                 |
| RI ∘      | ∘ bridges                                 |          | brightness distribution  |          | 1 1127 dilordit                                 |
|           | construction                              |          | limb brightening   | Bristol  | Siddeley Olympus 593 engine                     |
|           | construction industry                     |          | meteorology  | GS       | engines   |
|           | crossings                                 |          | photography  | GS       | . air breathing engines                         |
|           | crossovers                                |          | radio astronomy  |          | 0 0   |
|           | highways                                  |          | temperature measurement  |          | gas turbine engines jet engines                 |
|           | ramps (structures)                        |          |  |          | turbojet engines                                |
| 0         | o structures                              | Brillou  | in effect  |          | Bristol-Siddeley Olympus                        |
|           | towers                                    | RT ·     | ∞ effects  |          | 593 engine                                      |
|           |   |          | frequency shift  |          | . internal combustion engines                   |
|           | an method                                 |          | light scattering   |          |   |
| RT        | , ,                                       |          | monochromatic radiation  |          | gas turbine engines jet engines                 |
| 0         | o methodology                             |          |  |          |   |
|           | single crystals                           | Brillou  | in flow  |          | turbojet engines<br>Bristol-Siddeley Olympus    |
|           |   | GS       | electric current   |          | 593 engine                                      |
| brightn   |   |          | . Brillouin flow   |          | . turbine engines                               |
| DEF       | The attribute of visual perception in     | RT       | beam currents  |          |   |
| accorda   | nce with which an area appears to emit    |          | electron beams   |          | gas turbine engines                             |
| more or   | less light.                               |          | electron optics  |          | jet engines                                     |
| GS        | electromagnetic properties                |          | ∞ flow   |          | turbojet engines                                |
|           | . optical properties                      |          | traveling wave tubes   |          | Bristol-Siddeley Olympus 593 engine             |
|           | brightness                                |          |  |          | 555 eligilie                                    |
|           | sky brightness                            |          | in zones   | Drietal  | Ciddolou Vinor engine                           |
| RT        | bistatic reflectivity                     | GS       | - 3  |          | Siddeley Viper engine                           |
|           | brightness distribution                   |          | . Brillouin zones  | GS       | engines   |
|           | color                                     | RT       |  |          | . air breathing engines                         |
|           | dimming                                   |          | conduction bands   |          | gas turbine engines                             |
|           | emissivity                                |          | crystal lattices   |          | jet engines                                     |
|           | flux (rate)                               |          | Fermi surfaces   |          | turbojet engines Bristol-Siddeley Viper engine  |
|           | glare                                     |          | free electrons   |          | , ,   |
|           | human factors engineering                 |          |  |          | . internal combustion engines                   |
|           | illuminance                               |          | in-Wigner equation   |          | gas turbine engines                             |
|           | illuminating                              | RT ·     | ∞ equations  |          | jet engines<br>turbojet engines                 |
|           | incandescence                             |          |  |          |   |
| 0         | o intensity                               | brines   | W  |          | Bristol-Siddeley Viper engine . turbine engines |
|           | light (visible radiation)                 | DEF      | 3, 1.3   |          | gas turbine engines                             |
|           | limb brightening                          |          | vith common salt.  |          |   |
|           | luminance                                 | RT       | coolants   |          | jet engines                                     |
|           | luminescence                              |          | refrigerants   |          | turbojet engines                                |
|           | luminosity                                |          | salinity   |          | Bristol-Siddeley Viper engine                   |
|           | luminous intensity                        |          | salt baths   | D        | Aircraft Corn air                               |
|           | luster                                    |          | salt beds  |          | Aircraft Corp aircraft                          |
|           | radiance                                  |          | sea water  | USE      | BAC aircraft                                    |
|           | radiant flux density                      |          |  |          | 0.1   |
|           | reflectance                               |          | nan number   |          | Columbia  |
|           | stellar luminosity                        |          | led July 2001)   | GS       | nations   |
|           | visibility                                | DEF      | A dimensionless number expressing  |          | . Canada  |

|                                       | Battal Call and the  |                     |   |  |   |
|---------------------------------------|--|---------------------|---|--|---|
|                                       | British Columbia   |                     | mathematical models   |  | bromine isotopes  |
| Duiti-I-                              | 0.4  |                     | supergravity  | bronch   | :   |
| British (                             |  |                     | supersymmetry   | UF   | bronchial tubes   |
| USE                                   | Guyana   |                     | theoretical physics   | GS   |   |
| Duitioh                               | Llonduras  |                     |   | GS   | anatomy   |
|                                       | Honduras   | bromate             |   |  | . respiratory system  |
| USE                                   | Belize   | GS                  | halogen compounds   | DT   | bronchi   |
| h=:441 a =                            | metariale  |                     | . bromine compounds   | RT   | lungs   |
|                                       | naterials  |                     | bromates  |  | trachea   |
| RT                                    | cleavage   | RT ∘                | oxygen compounds  | c  | ∘ tubes   |
|                                       | cracking (fracturing)  |                     |   | hranahi  | al tubes  |
|                                       | embrittlement  | bromid              | es  |  |   |
|                                       | fracture strength  | GS                  | halogen compounds   | USE  | bronchi   |
|                                       | granular materials   |                     | . bromine compounds   | bronze   |   |
|                                       | hardness   |                     | bromides  | GS   |   |
|                                       | impact strength  |                     | ammonium bromides   | 93   | ,   |
| 0                                     | ∞ materials  |                     | cesium bromides   |  | . copper alloys bronzes   |
|                                       | porous materials   |                     | chromium bromides   |  | bronzes   |
|                                       |  |                     | dibromides  | Brorso   | n-Metcalf comet   |
|                                       | luctile transition   |                     | hydrobromic acid  |  | ed May 1991)  |
| USE                                   | ductile-brittle transition   |                     | hydrobromides   |  | celestial bodies  |
| 1 200                                 |  |                     | magnesium bromides  | 93   | . comets  |
| brittlen                              |  |                     | potassium bromides  |  | Brorsen-Metcalf comet   |
| GS                                    | mechanical properties  |                     | silver bromides   | RT   |   |
|                                       | brittleness  |                     | sodium bromides   | KI   | solar system  |
| RT                                    | Charpy impact test   |                     | strontium bromides  | broths   |   |
|                                       | cleavage   |                     | . halides   |  | ∞ food  |
|                                       | cold hardening   |                     | bromides  | IX I S   | nutrition   |
|                                       | crack closure  |                     | ammonium bromides   |  | namon   |
|                                       | crack initiation   |                     | cesium bromides   | hrown  | dwarf stars   |
|                                       | crack propagation  |                     |   |  | ed March 1989)  |
|                                       | cracking (fracturing)  |                     | chromium bromides   |  | celestial bodies  |
|                                       | ductile-brittle transition   |                     | dibromides  | 63   | . stars   |
|                                       | ductility  |                     | hydrobromic acid  |  | . brown dwarf stars   |
|                                       | embrittlement  |                     | hydrobromides   | DT   |   |
|                                       | fractography   |                     | magnesium bromides  | KI   | companion stars cool stars  |
|                                       | fracture strength  |                     | potassium bromides  |  |   |
|                                       | fracturing   |                     | silver bromides   |  | dwarf stars   |
|                                       | hardness   |                     | sodium bromides   |  | massive compact halo objects  |
|                                       | impact strength  |                     | strontium bromides  |  | protostars  |
|                                       | impact tests   | RT                  | salt beds   |  | stellar evolution   |
|                                       | notch strength   |                     |   | h.vam  | wave effect   |
|                                       | notch tests  | bromin              | ation   |  | wave effect   |
|                                       | toughness  | GS                  | chemical reactions  | RT   |   |
|                                       | weldability  |                     | . halogenation  |  | botany  |
|                                       | • •  |                     | bromination   |  | chlorophylls  |
| broadb                                | and  |                     |   | ۰  | ∘ effects   |
| UF                                    | wideband   | bromin              | e   |  | foliage   |
| GS                                    | bandwidth  | GS                  | chemical elements   |  | leaves  |
|                                       | . broadband  |                     | . halogens  | Draum!   | an movements  |
|                                       | frequencies  |                     | bromine   |  |   |
|                                       | broadband  |                     | bromine isotopes  | KI   | colloids  |
| RT                                    | asynchronous transfer mode   |                     | z. z  |  | dispersions   |
|                                       | ∞ bands  | bromine             | . 02  |  | Einstein equations  |
|                                       | frequency response   | bromine             | bromine isotopes  |  | emulsions   |
|                                       | log periodic antennas  | USE                 | bronnine isotopes   |  | Fokker-Planck equation  |
|                                       | narrowband   |                     |   |  | ∞ motion  |
|                                       | spiral antennas  | bromine             | e 87  | c  | ∘ suspensions   |
|                                       | op.i.s. dilloriildo  | USE                 | bromine isotopes  | D 1  | un toot   |
| hroadh                                | and amplifiers   |                     |   | Bruceto  |   |
| GS                                    |  | bromin              | e compounds   | USE  | statistical tests   |
| GS                                    | . broadband amplifiers   |                     | halogen compounds   | L  |   |
| RT                                    | bandwidth  |                     | . bromine compounds   | brucite  |   |
| KI                                    |  |                     | bromates  | GS   | chalcogenides   |
|                                       | frequencies wideband communication   |                     | bromides  |  | . oxides  |
|                                       | wideband communication   |                     | ammonium bromides   |  | brucite   |
| broad-                                | acting   |                     | cesium bromides   |  | magnesium compounds   |
| broadc                                |  |                     | chromium bromides   |  | . brucite   |
|                                       | radio broadcasting   |                     | dibromides  |  | minerals  |
| GS                                    | telecommunication  |                     | hydrobromic acid  |  | . brucite   |
|                                       | broadcasting   |                     |   |  |   |
| RT                                    | communication networks   |                     | hydrobromides   |  | heim meteorite  |
|                                       | direct broadcast satellites  |                     | magnesium bromides  | GS   | celestial bodies  |
|                                       | radio communication  |                     | potassium bromides  |  | . meteorites  |
|                                       |  |                     | ailyar bramidaa   |  |   |
|                                       | radio equipment  |                     | silver bromides   |  | stony meteorites  |
|                                       |  |                     | sodium bromides   |  | stony meteorites chondrites   |
|                                       | radio equipment  |                     | sodium bromides strontium bromides  |  |   |
|                                       | radio equipment radio signals  |                     | sodium bromides<br>strontium bromides<br>halon  |  | chondrites  |
|                                       | radio equipment<br>radio signals<br>radio transmission   | RT ∘                | sodium bromides strontium bromides halon • chemical compounds   | Brunei   | chondrites  |
|                                       | radio equipment<br>radio signals<br>radio transmission<br>Symphonie satellites   | RT ∘                | sodium bromides strontium bromides halon o chemical compounds halocarbons   | <b>Brunei</b><br>GS                                      | chondrites  |
|                                       | radio equipment<br>radio signals<br>radio transmission<br>Symphonie satellites<br>transmission   | RT ∘                | sodium bromides strontium bromides halon • chemical compounds   |  | chondrites<br>Bruderheim meteorite  |
| broken                                | radio equipment<br>radio signals<br>radio transmission<br>Symphonie satellites<br>transmission   | RT∘                 | sodium bromides strontium bromides halon o chemical compounds halocarbons   |  | chondrites Bruderheim meteorite nations   |
|                                       | radio equipment<br>radio signals<br>radio transmission<br>Symphonie satellites<br>transmission<br>Voice of America   |                     | sodium bromides strontium bromides halon o chemical compounds halocarbons   | GS   | chondrites Bruderheim meteorite nations . Brunei  |
| DEF                                   | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry   |                     | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls e isotopes   | GS<br>RT   | chondrites Bruderheim meteorite  nations . Brunei Asia  |
| DEF<br>is prese                       | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for   | bromin              | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls e isotopes   | GS<br>RT<br><b>Brunt-\</b>                               | chondrites Bruderheim meteorite  nations . Brunei Asia  |
| DEF<br>is prese<br>symmet             | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for try breaking.   | bromin              | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls e isotopes bromine 82 bromine 87   | GS<br>RT<br><b>Brunt-\</b><br>DEF                        | chondrites Bruderheim meteorite  nations . Brunei Asia  /aisala frequency The frequency at which an air parcel  |
| DEF<br>is prese<br>symmet<br>UF       | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for try breaking. symmetry breaking                                       | <b>bromin</b><br>UF | sodium bromides strontium bromides halon o chemical compounds halocarbons polybrominated biphenyls  e isotopes bromine 82 bromine 87 chemical elements                                | GS<br>RT<br><b>Brunt-\</b><br>DEF<br>will osc            | chondritesBruderheim meteorite  nations .Brunei Asia  /aisala frequency The frequency at which an air parcel illate when subjected to an infinitesimal  |
| DEF<br>is prese<br>symmet             | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for try breaking. symmetry breaking symmetry                              | <b>bromin</b><br>UF | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls  e isotopes bromine 82 bromine 87 chemical elements . halogens                       | GS<br>RT<br><b>Brunt-\</b><br>DEF<br>will osc<br>peturba | chondrites Bruderheim meteorite  nations . Brunei Asia  /aisala frequency The frequency at which an air parcel illate when subjected to an infinitesimal tion in a stably stratified atmosphere.    |
| DEF<br>is prese<br>symmet<br>UF       | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for try breaking. symmetry breaking symmetry broken symmetry              | <b>bromin</b><br>UF | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls e isotopes bromine 82 bromine 87 chemical elements . halogens bromine                | GS<br>RT<br><b>Brunt-\</b><br>DEF<br>will osc<br>peturba | nations Brunei Asia  /aisala frequency The frequency at which an air parcel illate when subjected to an infinitesimal tion in a stably stratified atmosphere.                                       |
| DEF<br>is prese<br>symmet<br>UF<br>GS | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for try breaking. symmetry breaking symmetry broken symmetry CP violation | <b>bromin</b><br>UF | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls e isotopes bromine 82 bromine 87 chemical elements halogens bromine bromine isotopes | GS<br>RT<br><b>Brunt-\</b><br>DEF<br>will osc<br>peturba | nations Brunei Asia  /aisala frequency The frequency at which an air parcel illate when subjected to an infinitesimal tion in a stably stratified atmosphere. constraints meteorological parameters |
| DEF<br>is prese<br>symmet<br>UF       | radio equipment radio signals radio transmission Symphonie satellites transmission Voice of America  symmetry Phenomena where a loss of symmetry ent such as in piezoelectricity. Used for try breaking. symmetry breaking symmetry broken symmetry              | <b>bromin</b><br>UF | sodium bromides strontium bromides halon chemical compounds halocarbons polybrominated biphenyls e isotopes bromine 82 bromine 87 chemical elements . halogens bromine                | GS<br>RT<br><b>Brunt-\</b><br>DEF<br>will osc<br>peturba | nations Brunei Asia  /aisala frequency The frequency at which an air parcel illate when subjected to an infinitesimal tion in a stably stratified atmosphere.                                       |

Brunt-Vaisala frequency . computer storage devices distortion air currents . bubble memory devices Donnell equations magnetic storage air flow failure air masses bubble memory devices failure modes atmospheric circulation RT binary data flange wrinkling atmospheric physics core storage heaving atmospheric stratification data processing kink bands oscillations data recorders kinking data recording ∞ ridges brush (botany) shell stability data storage scrubs (botany) magnetic cores stresses GS plants (botany) structural failure magnetic domains brush (botany) magnetic recording structural strain . chaparral magnetic switching temperature inversions botany torsion defoliation bubble technique twistina Earth resources GS technologies warpage guayule . bubble technique wrinkling herbicides data recorders electronic equipment buckminsterfullerene flight instruments brush seals (added August 1991) (added July 1991) ∞ instruments DEF A form of solid carbon consisting of a seals (stoppers) magnetic domains somewhat disordered hexagonal close packing of soccer-ball-shaped C60 molecules. The molecules are extremely hard pseudospherical molecules. brush seals onboard equipment leakage recording instruments semiconductor devices ecules bonded by weak Van der Waals forces. brushes solid state devices GS fullerenes GS brushes spacecraft instruments . buckminsterfullerene . brushes (electrical contacts) carbon electric contacts bubbles graphite DEF Internal voids or trapped globules of air electric generators molecules electric motors or other gas. polyatomic molecules RT aeration polyhedrons cavitation flow brushes (electrical contacts) DEF Conductive metal or carbon blocks Coanda effect used to make sliding electrical contact with a effervescence budgeting moving part as in an electric motor. foams RT accounting allocations brushes metal foams GS appropriations . brushes (electrical contacts) thermocapillary migration ∞ budgets electric contacts wakes electric generators cost analysis cost effectiveness **Buccaneer aircraft** electric motors B-103 aircraft cost estimates Blackburn B-103 aircraft economic factors **Bryophytes** attack aircraft UF liverworts GS estimating **Buccaneer aircraft** financial management mosses Hawker Siddeley aircraft plants (botany) forecasting Buccaneer aircraft grants Bryophytes jet aircraft income **BSCCO** superconductors Buccaneer aircraft mission planning (added March 1993) monoplanes planning Bi-Sr-Ca-Cu-O superconductors Buccaneer aircraft procurement management GS chalcogenides RT ∞ aircraft project planning . oxides Harrier aircraft revenue . . metal oxides . . . mixed oxides bucket brigade devices ∞ budgets .... BSCCO superconductors GS electronic equipment (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . solid state devices conductors . . semiconductor devices . superconductors (materials) . . . charge transfer devices budgeting . . high temperature superconductors ... bucket brigade devices Earth radiation budget BSCCO superconductors energy budgets charge coupled devices bismuth oxides engineering management semiconductors (materials) calcium oxides federal budgets copper oxides ∞ buckets foreign policy cuprates (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS heat budget strontium oxides procurement management superconducting films LISTED BELOW)
boxes (containers) research management BSX ∞ capsules GS explosives Buffalo aircraft drums (containers) BSX USE DHC 5 aircraft travs RT nitromethane turbomachine blades buffer storage bubble chambers buckeye aircraft DEF In computer operations, storage used DEF Devices used for the detection and USE T-2 aircraft to compensate for a difference in rate of flow or study of elementary particles and nuclear reactime of occurrence when transferring informations. Charged particles from an accelerator are tion from one device to another. introduced into a superheated liquid, each form-An unstable state of equilibrium of a computer components ing a trail of bubbles along its path. thin-walled body stemming from compressive . computer storage devices ionization chambers stresses in walls. The lateral deflection of a GS . buffer storage . bubble chambers thin-walled body resulting from such instability. RT ∞ buffers GS buckling RT ∞ chambers core storage . creep buckling cloud chambers data storage elementary particles . elastic buckling ∞ storage particle trajectories Euler buckling radiation counters thermal buckling ∞ buffers bending spark chambers RT (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN collapse

compression loads

buffer storage

deformation

122

GS

bubble memory devices

computer components

|          | buffers (chemistry)   | RT ∝             | devices  |                    | buoyancy-driven flow  |
|----------|---|------------------|--|--------------------|---|
| hufforo  | (ahamiatry)   |                  | surface acoustic wave devices                                      |                    | density (mass/volume)   |
|          | (chemistry) bases (chemical)  |                  | transducers  |                    | floating gas density  |
|          | buffers   | bulk mo          | odulus   |                    | levitation  |
|          | chemical equilibrium  |                  | The reciprocal of the coefficient of                               |                    | mechanical properties   |
|          | neutralizers  | compres          |  |                    | neutral buoyancy simulation                                     |
|          | рН  | GS               | mechanical properties . bulk modulus                               | c                  | o physical properties   |
| buffetin | α   | RT               | compressibility  |                    | porosity<br>Rayleigh number                                     |
| DEF      | The beating of an aerodynamic struc-  |                  | density (mass/volume)  |                    | voids   |
|          | surfaces by unsteady flow, gusts, etc.;                                     |                  |  |                    |   |
|          | ular shaking or oscillation of a vehicle                                    | bulkhea          |  | buovan             | cy-driven flow  |
| flow.    | ent owing to turbulent air or separated                                     | DEF<br>natural ( | Steep or vertical structures supporting or artificial embankments. | (add               | ed June 2002)   |
| RT       | aerodynamic stability   | GS               | walls  |                    | Convective fluid flow induced by buo                            |
|          | aircraft stability  |                  | . bulkheads  | ant forc           |   |
|          | boundary layer control  | RT ∝             | barriers   | GS                 | fluid flow . convective flow                                    |
|          | compressibility effects   |                  | end plates   |                    | buoyancy-driven flow  |
|          | flight characteristics<br>flutter   |                  | hulls (structures) partitions (structures)                         | RT                 |   |
|          | oscillating flow  |                  | reinforcement (structures)   |                    | convection  |
|          | shaking   |                  | thick walls  |                    | crystal growth  |
|          | spacecraft motion   |                  | thin walls   |                    | Rayleigh-Benard convection                                      |
|          | spacecraft stability  | Bullnun          | missiles   | huovo              |   |
|          | Strouhal number   |                  | missiles<br>missiles   | <b>buoys</b><br>RT | beacons   |
|          | turbulence effects<br>vortex avoidance                                      | 00               | . air to surface missiles  | 17.1               | compasses   |
|          | voitex avoidance  |                  | Bullpup missiles   |                    | floats  |
| building | materials   | RT               | LR-62-RM-2 engine  | c                  | ∘ markers   |
| USE      | construction materials  | Dumble           | has project  |                    | navigation aids   |
|          |   |                  | bee project missiles   |                    | ocean data acquisitions systems                                 |
|          | structures  | 00               | . Bumblebee project  | _                  |   |
| USE      | buildings   |                  | programs   |                    | space shuttle<br>ed August 1989)                                |
| building | js .  |                  | . projects   |                    | manned spacecraft   |
| DEF      | Structures erected and framed of com-                                       | DT               | Bumblebee project  |                    | . space shuttles  |
|          | structural members designed for the   | RT               | Talos missile tartar missile                                       |                    | Buran space shuttle   |
|          | shelter or support of persons, animals, erty. Used for building structures. |                  | terrier missile  |                    | reentry vehicles  |
| UF       | building structures   |                  | Typhon weapon system   |                    | . recoverable spacecraft  |
| RT       | architecture  |                  |  |                    | reusable spacecraft space shuttles                              |
|          | basements   | bumper           |  |                    | Buran space shuttle   |
|          | ceilings (architecture)   | RT               | cushions<br>meteoroid protection                                   |                    | soft landing spacecraft   |
|          | chimneys  |                  | meteoroids   |                    | Buran space shuttle   |
|          | construction construction industry  |                  | protectors   |                    | Soviet spacecraft   |
|          | floors  |                  |  | RT                 | . Buran space shuttle aerospace planes                          |
|          | greenhouses   |                  | toruses  | IXI                | U.S.S.R. space program  |
|          | hangars   | plasmas          | The shapes (doughnuts) of certain                                  |                    | everen a chance by a gramm                                      |
|          | indoor air pollution  |                  | fusion reactors  | bureau             | s (organizations)   |
|          | inflatable structures missile silos   |                  | plasma control   |                    |   |
|          | museums   |                  | plasma heating   |                    | . bureaus (organizations)                                       |
|          | roofs   |                  | tokamak devices  |                    | organizations   |
|          | shelters  |                  | toroidal plasmas   |                    | . federations   |
|          | solar houses  | Buna (t          | rademark)  | RT                 | bureaus (organizations) programs                                |
|          | stairways<br>Staraita program   |                  | elastomers   |                    | projects  |
|          | Starsite program walls  |                  | . rubber   |                    | teams   |
|          | Wallo   |                  | synthetic rubbers  |                    | university program  |
| bulbs    |   | RT               | Buna (trademark) butadiene   |                    |   |
| RT       | luminaires  | 131              | styrenes   | burette            |   |
|          | plant roots   |                  | •  | GS                 | measuring instruments . burettes                                |
|          | pressure vessels<br>syringes  | bunchir          | •  | RT                 | glassware   |
|          | Syring 30   | GS               | bunching . electron bunching                                       |                    | pipettes  |
| Bulgaria |   | RT               | queueing theory  | c                  | • tubes   |
| GS       | nations   |                  | space charge   |                    |   |
| DT       | . Bulgaria  |                  | velocity modulation  |                    | equation  |
| RT       | Black Sea<br>Europe   |                  | To the   | GS                 | analysis (mathematics)  |
|          | Laropo  |                  | drawing<br>∍drawing  |                    | <ul><li>real variables</li><li>differential equations</li></ul> |
| bulging  |   | KI o             | metal drawing  |                    | partial differential equations                                  |
| GS       | metal working   |                  |  |                    | Burger equation   |
| БТ       | bulging   | bundles          |  | RT                 | continuum mechanics   |
| RT       | deep drawing dimpling   | RT ∝             | containers   | c                  | ∘ equations   |
|          | explosive forming   |                  | packages<br>umbilical connectors                                   |                    | Navier-Stokes equation  |
|          | forging   |                  | wiring   |                    | shock wave propagation  |
|          | hot working   |                  | <u> </u>   | Burkina            |   |
|          | magnetic forming  | bunkers          |  | Burkina<br>UF      | a<br>Upper Volta  |
|          | metal drawing   | GS               | tanks (containers)   | GS                 | nations   |
|          | stretch forming   | RT               | . bunkers (fuel)<br>fuel systems                                   |                    | . Burkina   |
| bulk ac  | oustic wave devices   | IXI              | raoi systems   | RT                 | Africa  |
|          | Acoustooptic devices utilizing bulk   | buoyan           | су   |                    |   |
|          | vaves at megahertz frequencies in thin                                      | ŔŢ               | acoustic levitation  | Burma              |   |
|          | sducers. Used for B-A-W devices.  |                  | aerostatics  | GS                 | nations   |
| UF       | B-A-W devices   |                  | ballast (mass)   |                    | . Burma   |

| RT            | Asia  |          | combustion                        | butaned         |   |
|---------------|---|----------|-----------------------------------|-----------------|---|
| hurnor        | •   | c        | ∞ cut-off                         |                 | ed April 2004)                                  |
| burners<br>RT | afterburning  |          | erosive burning extinguishing     | USE             | succinonitrile                                  |
|               | chemical reactors   |          | solid propellant rocket engines   | butanes         | 5   |
|               | combustion chambers   |          | thrust termination                | UF              | isobutane                                       |
|               | diffusion welding   |          |                                   | GS              | organic compounds                               |
|               | fuel injection  | burns (  | (injuries)                        |                 | . hydrocarbons                                  |
|               | furnaces  | GS       | injuries                          |                 | aliphatic hydrocarbons                          |
|               | incinerators waste energy utilization                         | DT       | . burns (injuries)                |                 | alkanes<br><b>butanes</b>                       |
|               | waste energy utilization                                      | RT       | crash injuries<br>fires           | RT              | petroleum products                              |
| Burnet        | t equations   |          | laser damage                      |                 | policioum producto                              |
|               | ed March 1996)  |          | lesions                           | butenes         |   |
| SN            | (These equations are frequently associated                    |          | radiation injuries                | UF              | butylene  |
|               | with models of hypersonic flow and shock waves.)              |          | •                                 | 00              | isobutylene                                     |
| GS            | equations of motion   | burnth   | rough (failure)                   | GS              | organic compounds . hydrocarbons                |
|               | . kinetic equations   | GS       | failure                           |                 | aliphatic hydrocarbons                          |
|               | hydrodynamic equations  |          | . burnthrough (failure)           |                 | alkenes   |
|               | Burnett equations   | RT       | ablation                          |                 | butenes   |
|               | flow equations . Burnett equations                            |          | damage<br>melting                 |                 |   |
| RT            | Boltzmann transport equation                                  |          | perforating                       | butt joii       |   |
| 111           | Chapman-Enskog theory   |          | periorating                       | GS              | joints (junctions)                              |
|               | computational fluid dynamics                                  | burst to | ests                              | DT              | . butt joints                                   |
|               | hypersonic flow   | GS       | destructive tests                 | RT              | lap joints<br>metal joints                      |
|               | shock waves   |          | . burst tests                     |                 | riveted joints                                  |
| h             |   | RT       | containment                       |                 | soldered joints                                 |
| burn-in<br>RT | failure   |          | failure analysis                  |                 | welded joints                                   |
| KI            | failure analysis  |          | fracture mechanics                |                 | ,   |
|               | integrated circuits   |          | fracture strength                 |                 | y valves  |
|               | quality control   | c        | ∞ materials tests                 | GS              | valves  |
|               | 4   |          | pressure vessels                  |                 | . butterfly valves                              |
| burning       |   | bursts   |                                   |                 | dampers (valves)                                |
| USE           | combustion  | GS       | bursts                            | buttes          |   |
| hurning       | process   |          | . gamma ray bursts                | GS              | landforms                                       |
|               | process combustion  |          | . radio bursts                    |                 | . terraces (landforms)                          |
| USL           | Combustion  |          | solar radio bursts                |                 | plateaus  |
| burning       | g rate  |          | type 2 bursts                     |                 | mesas   |
| DEF           | The velocity at which a solid propellant                      |          | type 3 bursts                     |                 | buttes  |
|               | ket is consumed. The symbol is r.                             |          | type 4 bursts                     | ∞ buttons       |   |
| GS            | rates (per time)  | RT a     | type 5 bursts<br>∞ disturbances   | ∞ buttons<br>SN | (USE OF A MORE SPECIFIC TERM IS                 |
| БТ            | burning rate  | KIS      | emission                          | OIV             | RECOMMENDEDCONSULT THE TERMS                    |
| RT            | burnout   |          | explosions                        | RT              | LISTED BELOW)                                   |
|               | combustion combustion control                                 |          | fragmentation                     | KI              | manual control                                  |
|               | combustion efficiency   |          | implosions                        | butylene        | 9   |
|               | combustion stability  |          | rupturing                         | ,               | butenes   |
|               | explosives  |          |                                   |                 |   |
|               | flame propagation   |          | (communication)                   | butylene        |   |
|               | flammability  |          | ed December 1996)                 | USE             | tetrahydrofuran                                 |
|               | fuel consumption  | USE      | packets (communication)           | butyric         | acid  |
|               | fuel-air ratio  | Burunc   | ı:                                | GS              | acids   |
|               | fuels   |          | Ruanda-Urundi                     | 00              | . butyric acid                                  |
|               | pressure dependence propellant consumption                    |          | nations                           | RT              | fermentation                                    |
|               | propellant grains   | 00       | . Burundi                         |                 |   |
|               | propellants   | RT       | Africa                            |                 | onfigurations                                   |
|               | smoldering  |          | Rwanda                            |                 | ed April 2001)                                  |
|               | solid propellant combustion                                   |          |                                   | USE             | blended-wing-body configurations                |
|               | solid propellant rocket engines                               |          | nductors                          | bypass          | ratio   |
|               | solid rocket propellants                                      | GS       | conductors                        | DEF             |   |
|               | velocity coupling   | RT       | . bus conductors<br>electric wire | inlet airf      | lows for a turbofan engine.                     |
| burning       | n time  | KI       | flat conductors                   | GS              | ratios  |
| UF            | firing time   |          | power lines                       |                 | bypass ratio                                    |
| GS            | time  | c        | ∞ power transmission              | RT              | air intakes                                     |
|               | . burning time  |          | •                                 |                 | engine inlets                                   |
| RT            | combustion  | bushin   | gs                                |                 | flow geometry                                   |
|               | combustion efficiency   | RT       | bearings                          |                 | hypersonic inlets inlet airframe configurations |
|               | firing (igniting)   |          | inserts                           |                 | inlet flow                                      |
|               | flight optimization   |          | linings                           |                 | inlet nozzles                                   |
|               | flight time   |          | shafts (machine elements)         |                 | intake systems                                  |
|               | rocket engines  |          | spacers                           |                 | nose inlets                                     |
|               | rocket firing testing time                                    | husines  | ss management                     |                 | side inlets                                     |
|               | thrust  |          | industrial management             |                 | supersonic inlets                               |
|               | windows (intervals)   | 302      |                                   | bypass          | 96  |
|               | , , ,   | butadie  | ene                               | UF              | shunts  |
| burnou        |   | UF       | vinyl ethylene                    | RT              | diverters                                       |
| SN            | (LIMITED TO TERMINATION OF                                    | GS       | organic compounds                 | 13.1            | relief valves                                   |
|               | COMBUSTION IN A ROCKET ENGINE<br>BECAUSE OF EXHAUSTION OF THE |          | hydrocarbons                      |                 |   |
| 255           | PROPELLANT)   |          | aliphatic hydrocarbons            | by-prod         |   |
| DEF           | The termination of combustion in a                            |          | dienes                            | RT              | materials recovery                              |
| rook-4        |   |          | hutadiana                         |                 |   |
|               | engine because of exhaustion of the                           | пт       | butadiene                         |                 | products  |
| propella      | engine because of exhaustion of the ant.                      | RT       | Buna (trademark)                  |                 | reaction products                               |
|               | engine because of exhaustion of the                           | RT       |                                   |                 | •   |

|          | ramming language)<br>ed July 1988)                           |         | evacuating (transportation)                   | RT o           | ∞ aircraft                                      |
|----------|--|---------|---|----------------|---|
| GS       | languages  | C-15 ai | roroft  | C-54 ai        | rcraft  |
|          | . programming languages                                      | UF      | YC-15 aircraft                                | UF             | R5D aircraft                                    |
|          | high level languages   | GS      | transport aircraft                            |                | Skymaster aircraft                              |
|          | C (programming language)                                     | 00      | . cargo aircraft                              | GS             | McDonnell Douglas aircraft                      |
| RT       | C++ (programming language)                                   |         | C-15 aircraft                                 |                | . Douglas aircraft                              |
|          | compilers  |         | V/STOL aircraft                               |                | C-54 aircraft                                   |
|          | computer programming   |         | . short takeoff aircraft                      |                | monoplanes                                      |
|          | expert systems   |         | C-15 aircraft                                 |                | . C-54 aircraft transport aircraft              |
| C band   |  | RT 。    | ∘ aircraft                                    |                | . cargo aircraft                                |
| SN       | (3. 9 TO 6. 2 GHZ)   |         |   |                | C-54 aircraft                                   |
| ĞS       | frequencies  | C-17 ai |   | RT o           | ∞ aircraft                                      |
|          | radio frequencies  | `       | ed August 1995)                               |                |   |
|          | microwave frequencies  | GS      | McDonnell Douglas aircraft                    | C-118 a        |   |
|          | C band   |         | . C-17 aircraft                               | GS             | 3   |
| RT       | millimeter waves   |         | transport aircraft . cargo aircraft           |                | . Douglas aircraft C-118 aircraft               |
|          | superhigh frequencies  |         | C-17 aircraft                                 |                | monoplanes                                      |
| C stars  |  | RT 。    | ∘ aircraft                                    |                | . C-118 aircraft                                |
| USE      | carbon stars   |         | turbofan engines                              |                | transport aircraft                              |
| 002      | di boli diaio  |         | · ·   |                | . cargo aircraft                                |
| C-1A ai  | rcraft   | C-33 ai | rcraft  |                | C-118 aircraft                                  |
| UF       | Trader aircraft  | UF      | Beech C-33 aircraft                           | RT o           | ∞ aircraft                                      |
| GS       | Grumman aircraft   |         | Debonair aircraft                             | C-119 a        | ivereft   |
|          | . C-1A aircraft  | GS      | Beechcraft aircraft                           |                | Fairchild-Hiller aircraft                       |
|          | transport aircraft   |         | . Beech 99 aircraft                           | 00             | . C-119 aircraft                                |
|          | . cargo aircraft   |         | C-33 aircraft                                 |                | transport aircraft                              |
| DT .     | <b>C-1A aircraft</b><br>∘ aircraft                           |         | general aviation aircraft . C-33 aircraft     |                | . cargo aircraft                                |
|          | ∘ all claft<br>∍ military aircraft                           |         | light aircraft                                |                | C-119 aircraft                                  |
|          | Timitary and art   |         | . Beech 99 aircraft                           | RT o           | ∞ aircraft                                      |
| C-2 airc | craft  |         | C-33 aircraft                                 |                |   |
| UF       | COD aircraft   |         | monoplanes                                    | <b>C-121</b> a |   |
| GS       | Grumman aircraft   |         | C-33 aircraft                                 | UF             | EC-121 aircraft Lockheed Constellation aircraft |
|          | . C-2 aircraft   |         | passenger aircraft                            |                | R7V aircraft                                    |
|          | jet aircraft   |         | . C-33 aircraft                               |                | Warning Star aircraft                           |
|          | . turboprop aircraft   |         | transport aircraft                            | GS             | Lockheed aircraft                               |
|          | C-2 aircraft monoplanes                                      |         | . cargo aircraft C-33 aircraft                |                | . C-121 aircraft                                |
|          | . C-2 aircraft   | RT 。    | ∘ aircraft                                    |                | monoplanes                                      |
|          | transport aircraft   | 101 -   | - difficient                                  |                | C-121 aircraft                                  |
|          | . cargo aircraft   | C-35 ai | roroft  |                | transport aircraft                              |
|          | C-2 aircraft   | UF      | Beech S-35 aircraft                           |                | . cargo aircraft C-121 aircraft                 |
| RT ∝     | ∘ aircraft   | Oi      | Bonanza aircraft                              | RT a           | ∞ aircraft                                      |
|          |  | GS      | Beechcraft aircraft                           | 1(1 *          | passenger aircraft                              |
| C-5 airc |  |         | . Beech 99 aircraft                           |                | Paracarigar amoram                              |
| UF       | Galaxy aircraft  |         | C-35 aircraft                                 | C-123 a        | nircraft  |
| GS       | Lockheed C-5 aircraft jet aircraft                           |         | general aviation aircraft                     | UF             | Provider aircraft                               |
| GS       | . C-5 aircraft   |         | . C-35 aircraft                               |                | YC-123 aircraft                                 |
|          | Lockheed aircraft  |         | light aircraft                                | GS             | Fairchild-Hiller aircraft                       |
|          | . C-5 aircraft   |         | . Beech 99 aircraft C-35 aircraft             |                | . C-123 aircraft monoplanes                     |
|          | transport aircraft   |         | monoplanes                                    |                | . C-123 aircraft                                |
|          | cargo aircraft   |         | . C-35 aircraft                               |                | transport aircraft                              |
|          | C-5 aircraft   |         | passenger aircraft                            |                | . cargo aircraft                                |
| RT∝      | o aircraft   |         | . C-35 aircraft                               |                | C-123 aircraft                                  |
|          | turbofan engines   |         | transport aircraft                            |                | V/STOL aircraft                                 |
| C 0 A    |  |         | . cargo aircraft                              |                | . short takeoff aircraft                        |
| DEF      | ugmentor wing aircraft NASA's research, short haul, jet air- | БТ      | C-35 aircraft                                 | DT             | C-123 aircraft                                  |
| craft.   | NAOA'S Tesearch, Short Haur, Jet all-                        | RI∘     | ∘ aircraft                                    | RI o           | ∞ aircraft                                      |
| GS       | jet aircraft   |         |   | C-124 a        | nircraft  |
|          | . C-8A augmentor wing aircraft                               | C-46 ai |   | GS             |   |
|          | research vehicles  | UF      | Commando aircraft                             |                | . Douglas aircraft                              |
|          | . research aircraft  | GS      | Curtiss C-46 aircraft Curtiss-Wright aircraft |                | C-124 aircraft                                  |
|          | . C-8A augmentor wing aircraft                               | GS      | . C-46 aircraft                               |                | monoplanes                                      |
|          | transport aircraft   |         | monoplanes                                    |                | . C-124 aircraft                                |
|          | . short haul aircraft C-8A augmentor wing aircraft           |         | . C-46 aircraft                               |                | transport aircraft                              |
|          | V/STOL aircraft  |         | passenger aircraft                            |                | . cargo aircraft                                |
|          | . short takeoff aircraft                                     |         | . C-46 aircraft                               | PT .           | C-124 aircraft<br>∞ aircraft                    |
|          | C-8A augmentor wing aircraft                                 |         | transport aircraft                            | KI             | ~ all clait                                     |
| RT ∝     | ∘ aircraft   |         | . cargo aircraft                              | C-130 a        | nircraft  |
|          |  | БТ      | C-46 aircraft                                 | UF             |   |
| C-9 airc | craft  | KI •    | o aircraft                                    |                | Hercules aircraft                               |
| GS       | jet aircraft   |         |   |                | JC-130 aircraft                                 |
|          | . C-9 aircraft   | C-47 ai |   |                | KC-130 aircraft                                 |
|          | McDonnell Douglas aircraft                                   | UF      | Dakota aircraft                               | 00             | NC-130 aircraft                                 |
|          | . Douglas aircraft C-9 aircraft                              | GS      | McDonnell Douglas aircraft . Douglas aircraft | GS             | jet aircraft . turboprop aircraft               |
|          | . Mcdonnell aircraft   |         | C-47 aircraft                                 |                | C-130 aircraft                                  |
|          | C-9 aircraft   |         | monoplanes                                    |                | Lockheed aircraft                               |
|          | transport aircraft   |         | . C-47 aircraft                               |                | . C-130 aircraft                                |
|          | . cargo aircraft   |         | transport aircraft                            |                | monoplanes                                      |
|          | C-9 aircraft   |         | . cargo aircraft                              |                | . C-130 aircraft                                |
| RT ∝     | o aircraft   |         | C-47 aircraft                                 |                | transport aircraft                              |

RT geography . cargo aircraft C-160 aircraft . C-130 aircraft Nord aircraft maps RT ∞ aircraft C-160 aircraft thematic mapping T-56 engine transport aircraft . cargo aircraft cadmium chemical elements C-131 aircraft . C-160 aircraft GS Samaritan aircraft RT ∞ aircraft . cadmium General Dynamics aircraft turboprop engines . . cadmium isotopes . C-131 aircraft metals monoplanes C++ (programming language) . transition metals . C-131 aircraft (added October 1991) . . cadmium transport aircraft GS languages . . cadmium isotopes . programming languages RT heavy metals . cargo aircraft . . C-131 aircraft . . high level languages cadmium 114 RT ∞ aircraft . C++ (programming language) C (programming language) USE cadmium isotopes C-133 aircraft Java (programming language) cadmium alloys Cargomaster aircraft object-oriented programming allovs GS jet aircraft cadmium alloys . turboprop aircraft cabin atmospheres bearing alloys . C-133 aircraft controlled atmospheres McDonnell Douglas aircraft cabin atmospheres cadmium antimonides . spacecraft cabin atmospheres . Douglas aircraft GS antimony compounds aircraft compartments . C-133 aircraft . antimonides ∞ atmospheres monoplanes . . cadmium antimonides cockpits C-133 aircraft cadmium compounds transport aircraft environmental control cadmium antimonides . cargo aircraft oxygen supply equipment pressurized cabins cadmium chlorides space capsules RT ∞ aircraft GS cadmium compounds T-34 engine . cadmium chlorides ∞ cabins (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) halogen compounds C-135 aircraft . chlorine compounds EC-135 aircraft . . chlorides KC-135 aircraft RT aircraft compartments . . cadmium chlorides Stratotanker aircraft cockpits Boeing aircraft pressurized cabins . . chlorides . C-135 aircraft spacecraft cabins ... cadmium chlorides jet aircraft . . metal halides C-135 aircraft cable force recorders ... cadmium chlorides monoplanes GS recording instruments C-135 aircraft . cable force recorders cadmium compounds transport aircraft  $RT \, \infty \, recorders$ GS cadmium compounds . cargo aircraft strain gages . cadmium antimonides . C-135 aircraft tensiometers . cadmium chlorides Advanced Range Instrumentation . cadmium fluorides cable television Aircraft . cadmium selenides (added December 1990) ∞ aircraft . cadmium sulfides turbofan aircraft UF CATV . cadmium tellurides GS television systems RT ∞ chemical compounds C-140 aircraft cable television ∞ Group 2B compounds RT Jet Star aircraft closed circuit television ∞ metal compounds GS jet aircraft communication cables C-140 aircraft television transmission cadmium fluorides Lockheed aircraft GS cadmium compounds ∞ cables . C-140 aircraft cadmium fluorides (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) monoplanes halogen compounds . C-140 aircraft . fluorine compounds transport aircraft RT cables (ropes) . . fluorides cargo aircraft . . . metal fluorides coaxial cables . C-140 aircraft communication cables . cadmium fluorides RT ∞ aircraft power lines submarine cables . . fluorides C-141 aircraft tetherlines . . . metal fluorides Starlifter aircraft transmission lines .... cadmium fluorides jet aircraft . . metal halides . turbofan aircraft cables (ropes) . . . metal fluorides . C-141 aircraft RT ∞ belts . . . . cadmium fluorides Lockheed aircraft ∞ cables . C-141 aircraft chains cadmium isotopes monoplanes cordage UF cadmium 114 . C-141 aircraft fasteners GS chemical elements transport aircraft reels . cadmium cargo aircraft strands ... cadmium isotopes . C-141 aircraft towing . nuclides RT ∞ aircraft wire . . isotopes Kuiper Airborne Observatory ... cadmium isotopes turbofan engines CAD (design) metals USE computer aided design . transition metals C-142 aircraft . . cadmium USE XC-142 aircraft cadastral mapping . . . cadmium isotopes DEF Large-scale mapping for showing the boundaries of subdivisions of land, usually with C-160 aircraft cadmium mercury tellurides UF Transall C-160 aircraft the directions and lengths thereof and the areas mercury cadmium tellurides Hamburger aircraft of individual tracts, compiled for the purpose of describing and recording ownership. The map C-160 aircraft cadmium nickel batteries may also show culture, drainage, and other features related to the use of the land. iet aircraft USE nickel cadmium batteries

GS

mapping

. cadastral mapping

cadmium selenides

GS cadmium compounds

. turboprop aircraft ... C-160 aircraft

monoplanes

|           | cadmium selenides                      |               | calcite                                  |         | fluorspar                         |
|-----------|--|---------------|--|---------|-----------------------------------|
|           | chalcogenides                          |               | carbon compounds                         |         | metal fluorides                   |
|           | . selenides cadmium selenides          |               | . carbonates calcium carbonates          |         | calcium fluorides                 |
|           | selenium compounds                     |               | calcite                                  |         | . halides                         |
|           | selenides                              |               | minerals                                 |         | fluorides                         |
|           | cadmium selenides                      |               | calcite                                  |         | difluorides                       |
| cadmiur   | m silver batteries                     | RT            | aragonite                                |         | calcium fluorides                 |
| USE       | silver cadmium batteries               |               | birefringence                            |         | fluorspar<br>metal fluorides      |
|           |  | calcium       |  |         | calcium fluorides                 |
|           | m sulfides                             | GS            | chemical elements                        |         | fluorspar                         |
| GS        | cadmium compounds . cadmium sulfides   |               | . calcium                                |         | metal halides                     |
|           | chalcogenides                          |               | calcium isotopes metals                  |         | metal fluorides                   |
|           | . sulfides                             |               | . calcium                                |         | calcium fluorides                 |
|           | inorganic sulfides                     |               | calcium isotopes                         |         | ildolopai                         |
|           | cadmium sulfides                       | RT            | calmodulin                               |         | isotopes                          |
|           | sulfur compounds<br>. sulfides         |               | gypsum                                   | UF      | calcium 45                        |
|           | . inorganic sulfides                   |               | osteocalcin                              | GS      | chemical elements . calcium       |
|           | cadmium sulfides                       | calcium       | 45                                       |         | calcium isotopes                  |
|           |  | USE           | calcium isotopes                         |         | . nuclides                        |
|           | m tellurides                           |               | -  |         | isotopes                          |
| GS        | cadmium compounds . cadmium tellurides |               | carbonates                               |         | calcium isotopes                  |
|           | chalcogenides                          | GS            | calcium compounds . calcium carbonates   |         | metals<br>. calcium               |
|           | . tellurides                           |               | akermanite                               |         | calcium isotopes                  |
|           | . cadmium tellurides                   |               | aragonite                                |         |                                   |
|           | tellurium compounds                    |               | calcite                                  |         | metabolism                        |
|           | . tellurides cadmium tellurides        |               | chalk                                    | GS      | metabolism                        |
|           | damiam tenanaes                        |               | carbon compounds . carbonates            | RT      | . calcium metabolism<br>bed rest  |
| caffeine  |  |               | calcium carbonates                       | IXI     | calmodulin                        |
| GS        | bases (chemical)                       |               | akermanite                               |         | osteoporosis                      |
|           | . alkaloids caffeine                   |               | aragonite                                |         | parathyroid gland                 |
|           | drugs                                  |               | calcite                                  |         | thyroid gland                     |
|           | . stimulants                           | RT            | chalk<br>bone mineral content            | calcium | ovides                            |
|           | caffeine                               | 101           | limestone                                | UF      | lime                              |
|           | fungicides                             |               |  | GS      | calcium compounds                 |
|           | . xanthines                            |               | chlorides                                |         | . calcium oxides                  |
|           | nitrogen compounds                     | GS            | calcium compounds . calcium chlorides    |         | akermanite                        |
|           | . alkaloids                            |               | halogen compounds                        |         | chalcogenides<br>. oxides         |
|           | caffeine                               |               | . chlorine compounds                     |         | metal oxides                      |
|           | . xanthines                            |               | chlorides                                |         | alkaline earth oxides             |
|           | caffeine organic compounds             |               | calcium chlorides                        |         | calcium oxides                    |
|           | . cyclic compounds                     |               | . halides chlorides                      | DT      | akermanite                        |
|           | heterocyclic compounds                 |               | calcium chlorides                        | RT      | BSCCO superconductors             |
|           | alkaloids                              |               | metal halides                            | calcium | phosphates                        |
|           | caffeine                               |               | calcium chlorides                        | UF      | apatites                          |
|           | purines xanthines                      |               |  | GS      | calcium compounds                 |
|           | caffeine                               | calcium<br>GS | compounds                                |         | . calcium phosphates              |
|           |  | 93            | calcium compounds . calcium carbonates   |         | phosphorus compounds . phosphates |
| CAI       |  |               | akermanite                               |         | calcium phosphates                |
| USE       | computer assisted instruction          |               | aragonite                                | RT      | bone mineral content              |
| caisson   | ıs                                     |               | calcite                                  |         | kidney stones                     |
| RT        | construction                           |               | chalk<br>. calcium chlorides             | calcium | silicates                         |
|           | foundations                            |               | . calcium fluorides                      | GS      | calcium compounds                 |
| Caiun r   | ocket vehicle                          |               | fluorspar                                |         | . calcium silicates               |
| GS        | rocket vehicles                        |               | . calcium oxides                         |         | gehlenite                         |
|           | . sounding rockets                     |               | akermanite                               |         | silicon compounds                 |
|           | Cajun rocket vehicle                   |               | . calcium phosphates . calcium silicates |         | . silicates calcium silicates     |
| RT        | Nike-Cajun rocket vehicle              |               | gehlenite                                |         | gehlenite                         |
|           | solid propellant rocket engines sondes |               | . calcium sulfides                       | RT      | amphiboles                        |
|           | Solides                                |               | . calcium tungstates                     |         | minerals                          |
| calcifer  | ol                                     |               | . calcium vanadates                      |         | plagioclase                       |
| UF        | vitamin D                              |               | . fluorite<br>. merwinite                | calcium | sulfides                          |
| GS        | organic compounds . lipids             |               | . monticellite                           | GS      | calcium compounds                 |
|           | calciferol                             |               | . perovskites                            |         | calcium sulfides                  |
|           | vitamins                               |               | . scheelite                              |         | chalcogenides                     |
|           | . calciferol                           |               | alkaline earth compounds                 |         | . sulfides<br>inorganic sulfides  |
| calcifica | ation                                  |               | chemical compounds<br>metal compounds    |         | calcium sulfides                  |
| RT        | arthritis                              |               | •  |         | sulfur compounds                  |
|           | bones                                  |               | fluorides                                |         | . sulfides                        |
|           | osteocalcin                            | GS            | calcium compounds                        |         | inorganic sulfides                |
| calcinati | ion                                    |               | . calcium fluorides fluorspar            |         | calcium sulfides                  |
| USE       | roasting                               |               | halogen compounds                        | calcium | tungstates                        |
|           |  |               | fluorine compounds                       | GS      | calcium compounds                 |
| calcite   |  |               | fluorides                                |         | . calcium tungstates              |
| GS        | calcium compounds . calcium carbonates |               | difluorides<br>calcium fluorides         |         | tungsten compounds                |
|           | . calcium carbonates                   |               | calcium muonues                          |         | . tungstates                      |

|          | calcium tungstates                             |             | volcanic eruptions                         |           | isotopes  |
|----------|--|-------------|--|-----------|---|
| calcium  | vanadates                                      |             | volcanoes<br>volcanology                   |           | radioactive isotopes transuranium elements  |
| GS       | calcium compounds                              |             | Voicariology                               |           | californium   |
|          | . calcium vanadates                            | calenda     | ars  |           | californium isotopes  |
|          | vanadium compounds                             | DEF         | Orderly arrangements of days, weeks,       |           | metals  |
|          | . vanadates                                    |             | etc. to suit a particular need such as     |           | . actinide series   |
|          | calcium vanadates                              | civil life. |  |           | transuranium elements   |
| calculat | ion  | GS          | calendars                                  |           | californium   |
| USE      | computation                                    | RT          | . crop calendars<br>month                  |           | californium isotopes  |
| 002      | ompatation .                                   | 131         | scheduling                                 | CALIPS    | O (Pathfinder satellite)  |
| calcula  | tors   |             | time                                       |           | ed October 2005)  |
| RT       | arithmetic                                     |             |  |           | CALIPSO (Cloud-Aerosol Lidar and In-  |
|          | computation                                    | calibrat    | •  |           | Pathfinder Satellite Observation) is an   |
|          | computers                                      | UF          | graduation                                 |           | oserving satellite that combines an active  |
| calculi  |  | GS          | calibrating . intercalibration             |           | trument with passive infrared and visible   |
| UF       | renal calculi                                  |             | . wind tunnel calibration                  |           | to probe the vertical structure and prop-<br>thin clouds and aerosols over the globe. |
| GS       | deposits                                       | RT          | accuracy                                   |           | artificial satellites   |
|          | calculi  |             | instrument compensation                    |           | . scientific satellites   |
|          | dental calculi                                 |             | instrument errors                          |           | CALIPSO (Pathfinder satellite)  |
| RT       | lithiasis                                      |             | measuring instruments                      |           | Earth Observing System (EOS)  |
|          | urolithiasis                                   | ۰           | scaling                                    |           | CALIPSO (Pathfinder satellite)  |
| calculu  |  |             | Solar Cell Calibration Facility            | RT        | aerosols  |
| SN       | (LIMITED TO MATHEMATICS)                       |             | standardization<br>standards               |           | Aqua spacecraft   |
| GS       | analysis (mathematics)                         |             | temperature scales                         |           | Aura spacecraft   |
|          | . calculus                                     |             | temperature scales                         |           | clouds (meteorology)<br>CloudSat  |
|          | continuity (mathematics)                       | Californ    | nia  |           | Earth observations (from space)   |
|          | . differential calculus                        | GS          | nations                                    |           | infrared radar  |
|          | Fourier-Bessel transformations                 |             | . United States                            |           | meteorological satellites   |
|          | Graeff calculus                                |             | California                                 |           | meteorology   |
|          | integral calculus                              | RT          | Cascade Range (CA-OR-WA)                   |           | precipitation (meteorology)   |
|          | limits (mathematics)                           |             | Coachella Valley (CA)                      |           | remote sensing  |
|          | series (mathematics) asymptotic series         |             | coastal ranges (CA)                        | 0-11:-4-  |   |
|          | Campbell-Hausdorff series                      |             | Death Valley (CA) Feather River Basin (CA) | Callisto  |   |
|          | cosine series                                  |             | Great Basin (US)                           |           | A satellite of Jupiter orbiting at a mean<br>of 1,884,000 kilometers. Also called     |
|          | Fourier series                                 |             | Imperial Valley (CA)                       | Jupiter I |   |
|          | Pade approximation                             |             | Lake Tahoe (CA-NV)                         | GS        | celestial bodies  |
|          | power series                                   |             | Mojave Desert (CA)                         |           | . natural satellites  |
|          | Taylor series                                  |             | Monterey Bay (CA)                          |           | icy satellites  |
|          | MacLaurin series                               |             | Palo Verde Valley (CA)                     |           | Callisto  |
|          | progressions                                   |             | Peninsular Ranges (CA)                     |           | Jupiter satellites  |
|          | Prony series sine series                       |             | Sacramento Valley (CA)                     |           | Galilean satellites   |
|          | vector analysis                                |             | Salton Sea (CA)<br>San Andreas Fault       | DT        | Callisto  |
|          | collinearity                                   |             | San Francisco (CA)                         | RT        | Charon extraterrestrial oceans  |
|          | coplanarity                                    |             | San Francisco Bay (CA)                     |           | Ganymede  |
|          | curl (vectors)                                 |             | San Joaquin Valley (CA)                    |           | lo  |
|          | vorticity                                      |             | San Pablo Bay (CA)                         |           | Jupiter (planet)  |
| RT       | analytic geometry                              |             | Sierra Nevada Mountains (CA)               |           | ,   |
|          | asymptotes                                     |             | Southern California                        | calmod    |   |
|          | differential equations                         |             | •  | GS        | biopolymers   |
|          | functions (mathematics)                        | californ    |  |           | . proteins  |
|          | mathematics monotone functions                 | GS          | chemical elements . actinide series        |           | calmodulin  |
|          | operational calculus                           |             | transuranium elements                      |           | organic compounds<br>. proteins   |
|          | real variables                                 |             | californium                                |           | calmodulin  |
|          |  |             | californium isotopes                       | RT        | calcium   |
| calculu  | s of variations                                |             | . nuclides                                 |           | calcium metabolism  |
| UF       | variation method                               |             | isotopes                                   |           | cytoplasm   |
| GS       | analysis (mathematics)                         |             | radioactive isotopes                       |           | gravitropism  |
|          | . real variables                               |             | transuranium elements                      |           | regulatory mechanisms (biology)   |
| RT       | calculus of variations Biot method             |             | californium                                | aalaria   |   |
| IXI      | Castigliano variational theorem                |             | californium isotopes                       |           | requirements nutritional requirements   |
|          | differential equations                         |             | metals . actinide series                   | GS        | . caloric requirements  |
|          | Euler-Lagrange equation                        |             | transuranium elements                      | RT        | diets   |
|          | integral equations                             |             | californium                                |           | o food  |
|          | invariant imbeddings                           |             | californium isotopes                       |           | metabolism  |
|          | Jacobi matrix method                           | RT          | californium compounds                      |           | mineral metabolism  |
|          | maxima   |             |  | 0         | o nutrients   |
|          | operational calculus                           | californi   |  |           | nutrition   |
|          | pontryagin principle                           | USE         | californium isotopes                       |           |   |
|          | steepest descent method variational principles | californ    | ium compounds                              | caloric   | stimuli<br>∘ stimuli  |
|          | variational principles                         | GS          | actinide series compounds                  | KI °      | o Sumuii  |
| caldera  | s  | 33          | . californium compounds                    | calorim   | eters   |
| DEF      |  | RT          | californium                                | DEF       | Instruments designed to measure heat  |
|          | nore or less circular in form, the diameter    | 131         |  |           | or absorbed. Used for microcalorim-   |
|          | is many times greater than that of the         | californ    | ium isotopes                               | eters.    |   |
| included | d vent or vents.                               | UF          | californium 252                            | UF        | microcalorimeters   |
| GS       | landforms                                      | GS          | chemical elements                          | GS        | measuring instruments   |
|          | . calderas                                     |             | . actinide series                          |           | . calorimeters  |
| RT       | cones (volcanoes)                              |             | transuranium elements                      |           | bomb calorimeters   |
|          | craters  |             | californium                                |           | drop calorimeters   |
|          | lava<br>Mars volcanoes                         |             | californium isotopes                       | RT        | flame calorimeters  |
|          | IVIAIS VUICAIIUES                              |             | . nuclides                                 | KI        | heat measurement  |

|          | high temperature tests                    |        | return beam vidicons            |          | . cams                                |
|----------|---|--------|---------------------------------|----------|---------------------------------------|
|          | scintillating fibers                      |        | thermicons                      | RT       | actuators                             |
|          | temperature measuring instruments         | RT     | cameras                         |          | eccentrics                            |
|          |   |        | dynodes                         |          | internal combustion engines           |
| calorim  |   |        | image converters                |          | linkages                              |
| USE      | heat measurement                          |        | image transducers               |          | mechanical devices                    |
|          |   |        | monoscopes                      |          |                                       |
| calutror |   |        | planotrons                      | Canada   |                                       |
| USE      | cyclotrons                                |        | television cameras              | GS       | nations                               |
|          |   |        | video equipment                 |          | . Canada                              |
| calves   |   |        |                                 |          | Alberta                               |
| GS       | animals                                   | camera | ıs                              |          | British Columbia                      |
|          | . vertebrates                             | GS     | optical equipment               |          | Manitoba                              |
|          | mammals                                   |        | . cameras                       |          | New Brunswick                         |
|          | cattle                                    |        | Baker-Nunn camera               |          | Newfoundland                          |
|          | calves                                    |        | ballistic cameras               |          | Northwest Territories                 |
| RT       | livestock                                 |        | CCD cameras                     |          | Nova Scotia                           |
|          |   |        |                                 |          |                                       |
| Calyps   | 0   |        | Delft camera                    |          | Ontario                               |
|          | ed January 1996)                          |        | . diffraction limited cameras   |          | Prince Edward Island                  |
|          | A natural satellite of Saturn orbiting at |        | faint object camera             |          | Quebec                                |
|          | distance of 294,660 kilometers.           |        | high speed cameras              |          | Saskatchewan                          |
| GS       | celestial bodies                          |        | framing cameras                 |          | Yukon Territory                       |
| 00       | . natural satellites                      |        | digital cameras                 | RT       | Anik 1                                |
|          |   |        | I2S cameras                     |          | Anik 2                                |
|          | Saturn satellites                         |        | Lallemand cameras               |          | Anik 3                                |
| DT       | Calypso                                   |        | multispectral band cameras      |          | Beaufort Sea (North America)          |
| KI       | Saturn (planet)                           |        | panoramic cameras               |          | Canadian space program                |
| 0444     |   |        | pinhole cameras                 |          | Canadian spacecraft                   |
| `        | nanufacturing)                            |        | Schmidt cameras                 |          | Communications Technology Satellite   |
| USE      | computer aided manufacturing              |        | streak cameras                  |          | Great Lakes (North America)           |
|          |   |        | television cameras              |          | Great Plains Corridor (North America) |
| camber   |   |        | photographic equipment          |          | Hudson Bay (Canada)                   |
| GS       | camber                                    |        | . cameras                       |          | International Field Year for Great    |
|          | . conical camber                          |        |                                 |          |                                       |
|          | . wing camber                             |        | Baker-Nunn camera               |          | Lakes                                 |
| RT       | airfoils                                  |        | ballistic cameras               |          | International Hydrological Decade     |
|          | bending                                   |        | CCD cameras                     |          | Labrador                              |
| 0        | ∞ bows                                    |        | Delft camera                    |          | Lake Champlain Basin (NY-VT)          |
|          | cambered wings                            |        | diffraction limited cameras     |          | North America                         |
|          | curvature                                 |        | faint object camera             |          | Pacific Northwest (US)                |
|          | curved beams                              |        | high speed cameras              |          | Rocky Mountains (North America)       |
|          | deflection                                |        | framing cameras                 |          | St Lawrence Valley (North America)    |
|          | deformation                               |        | digital cameras                 |          | Williston Basin (North America)       |
|          | distortion                                |        | I2S cameras                     |          |                                       |
|          | flexing                                   |        | Lallemand cameras               | Canadai  | ir aircraft                           |
|          |   |        | multispectral band cameras      | UF       | Canadair CF-104 aircraft              |
|          | fuselages                                 |        | panoramic cameras               |          | CF-104 aircraft                       |
|          | lift                                      |        | pinhole cameras                 | GS       | Canadair aircraft                     |
|          | warpage                                   |        | Schmidt cameras                 |          | . CL-41 aircraft                      |
|          |   |        | streak cameras                  |          | . CL-44 aircraft                      |
|          | red wings                                 |        |                                 |          | . CL-84 aircraft                      |
| GS       | airfoils                                  | DT     | television cameras              |          |                                       |
|          | . wings                                   | RT     | camera shutters                 | DT       | . CL-600 challenger aircraft          |
|          | cambered wings                            |        | camera tubes                    | KI∞      | aircraft                              |
| RT       | camber                                    |        | cinematography                  |          | General Dynamics aircraft             |
|          | fixed wings                               |        | focusing                        | 0        | - OF 404 - in-u-ft                    |
|          | twisted wings                             |        | lenses                          |          | r CF-104 aircraft                     |
|          | uncambered wings                          |        | photography                     | USE      | Canadair aircraft                     |
|          | wing camber                               |        | SIM                             |          | F-104 aircraft                        |
|          | ŭ   |        | streak photography              |          |                                       |
| Cambo    | dia                                       |        | ultraviolet photography         |          | r CL-41 aircraft                      |
| UF       | Kampuchea                                 |        | underwater photography          | USE      | CL-41 aircraft                        |
| GS       | nations                                   |        | wide angle lenses               |          |                                       |
|          | . Cambodia                                |        | · ·                             | Canadai  | r CL-44 aircraft                      |
| RT       | Asia                                      | Camero | oon                             | USE      | CL-44 aircraft                        |
|          |   |        | nations                         |          |                                       |
| Cambri   | an Period                                 |        | . Cameroon                      |          | r CL-84 aircraft                      |
|          | ed June 1989)                             | RT     | Africa                          | USE      | CL-84 aircraft                        |
|          | Paleozoic Era                             |        |                                 |          |                                       |
|          | . Cambrian Period                         | camou  | flage                           | Canadai  | rm (ISS)                              |
| RT       | geochronology                             | RT     |                                 |          | ed September 2001)                    |
| 13.1     | paleontology                              |        | coverings                       | USE      | Space Station Mobile Servicing        |
|          | Precambrian period                        |        | netting (materials/structures)  |          | System                                |
|          | i recambilari period                      |        | stealth technology              |          | •                                     |
| Camel    | aircraft                                  |        | Stealth technology              | Canadia  | n Shield                              |
|          | TU-104 aircraft                           | Camph  | all-Hausdorff sories            |          | geology                               |
| USE      | 10-104 diretalt                           |        | ell-Hausdorff series            | 13.1     | meteorite craters                     |
| 00m      | chuttars                                  | GS     | ,                               |          | Precambrian period                    |
|          | shutters                                  |        | . calculus                      |          | i recambilan penod                    |
| RT       | cameras                                   |        | series (mathematics)            | Connella | in chaco program                      |
|          | irises (mechanical apertures)             |        | Campbell-Hausdorff series       |          | In space program                      |
|          | Kerr cells                                |        | . real variables                | DEF      | Space research, programs, and activi- |
|          | panoramic cameras                         |        | series (mathematics)            |          | ertaken by Canada.                    |
| 0        | ∞ shutters                                |        | Campbell-Hausdorff series       | GS       | programs                              |
|          | streak cameras                            |        |                                 |          | . space programs                      |
|          |   | camph  | or                              |          | Canadian space program                |
| camera   | tubes                                     | GS.    | ketones                         |          | Alouette project                      |
| GS       | electron tubes                            |        | . camphor                       | RT       | aerospace technology transfer         |
|          | . camera tubes                            |        | terpenes                        |          | Anik 1                                |
|          | image dissector tubes                     |        | . camphor                       |          | Anik 2                                |
|          | orthicons                                 |        |                                 |          | Anik 3                                |
|          | image orthicons                           | cams   |                                 |          | Anik satellites                       |
|          | vidicons                                  | GS     | positioning devices (machinery) |          | Canada                                |
|          | +10100113                                 | 93     | positioning actions (machinery) |          | Janada                                |

#### Canadian spacecraft

canals

RT

GS

Canadian spacecraft removal drums (containers) Communications Technology Satellite stopping NASA programs cant Radarsat cancellation circuits USE slopes scientific satellites GS circuits Space Station Mobile Servicing cancellation circuits cantilever beams System display devices cantilever members moving target indicators pulse Doppler radar synchronous satellites . cantilever beams structural members technology assessment technology utilization radar . beams (supports) cantilever beams Canadian spacecraft cancer RT box beams DEF Spacecraft of the Canadian Govern-UF carcinoma I beams ment. The following satellites have been develsarcoma oped: Alouette satellites, ISIS satellites, Anik GS cantilever members diseases satellites, and Hermes satellite. RADARSAT and . tumors GS cantilever members MSAT are in the process of being developed. cantilever beams . . neoplasms Canadian spacecraft cantilever plates cancer . Alouette satellites . leukemias . . Alouette 1 satellite bone marrow . . Alouette 2 satellite cantilever plates breast . . Alouette B satellite carcinogens GS cantilever members . Anik satellites cells (biology) . cantilever plates . . Anik 1 metastasis structural members . . Anik 2 . plates (structural members) oncogenes . Anik 3 radiation therapy cantilever plates Radarsat tissues (biology) RT anisotropic plates Canada tumor suppressor genes Canadian space program tumor suppressor proteins cantilever wings  $\infty$  spacecraft ulcers USE wings cancer genes canyons landforms GS (added July 2002) coulees canals USE oncogenes gorges waterways GS landforms canals . canyons canisters ditches . Grand Canyon (AZ) USE cans flood control RT arroyos fluid flow cliffs canning gates (openings) fans (landforms) food processing Great Lakes (North America) ravinès . canning irrigation rivers encapsulating Mars surface valleys ∞ food materials handling water erosion Panama Cannonball 2 satellite seepage cap clouds artificial satellites straits UF orographic clouds . scientific satellites troughs GS clouds (meteorology) . . Cannonball 2 satellite water flow cap clouds atmospheric moisture canard configurations cannons climatology DEF Pertaining to an aerodynamic vehicle USE guns (ordnance) cloud cover in which horizontal surfaces used for trim and meteorology control are forward of the main lifting surface; cannulae nephanalysis the horizontal trim and control surfaces in such RT ∞ tubes precipitation (meteorology) an arrangement. weather aerodynamic configurations canonical forms . canard configurations algebra capacitance aircraft structures . vector spaces DEF That property of a system of conduc-∞ configurations . . matrices (mathematics) tors and dielectrics which permits the storage of control surfaces canonical forms electrically separated charges when potential JAS-39 aircraft RT fibers (mathematics) differences exist between the conductors. It is Saab 37 aircraft the ratio of a quantity, Q, of electricity to a potential difference, V. A capacitance value is tandem wing aircraft canopies X-31 aircraft aircraft structures RT always positive. The units are farads when the airframes charge is expressed in coulombs and the poten-Canary Islands cockpits tial in volts: C = Q/V. Capacitance is symbolized GS landforms fairings as C . islands windshields GS electrical properties ... Canary Islands capacitance nations canopies (vegetation) capacitance-voltage characteristics . Spain DEF The topmost layers of leaves and capacitors ... Canary Islands branches of forest trees or other plants. ∞ capacity vegetation GS dielectric properties Canberra aircraft canopies (vegetation) BAC aircraft electric charge foliage Canberra aircraft RT electrical impedance forests electrostatic charge jet aircraft grasses inductance Canberra aircraft leaf area index open circuit voltage monoplanes leaves RC circuits Canberra aircraft plants (botany) reactance RT ∞ aircraft rain forests RLC circuits B-57 aircraft sod

trees (plants)

canisters

RT ∞ containers

cans UF vegetative index

capacitance switches

capacitors

dielectrics

RLC circuits

. capacitance switches

GS switches

130

Canberra bomber

cancellation

RT

USE **B-57 aircraft** 

contracts

elimination

carbides switching circuits ... blood vessels test chambers .... capillaries (anatomy) test equipment capacitance-voltage characteristics test vehicles . . . . glomerulus DEF The characteristics of a metal semi-RT arterioles vessels conductor contact or a semiconductor junction blood that manifests a measured capacitance as a capsules (spacecraft) ∞ capillaries function of a dc bias voltage with small, super-USE space capsules imposed ac voltage applied to that junction or capillary circulation captive tests contact. USE capillary flow DEF Holddown tests of a propulsive sub-GS electrical properties capacitance-voltage capillary flow system, rocket engine or motor as distinguished from a flight test. characteristics UF capillary circulation capacitance GS fluid flow GS captive tests . static tests ∞ characteristics capillary flow . static firing electric potential RT blood flow RT engine tests metal oxide semiconductors laminar flow liquid bridges volt-ampere characteristics ground tests surface tension driven convection missile tests capacitive fuel gages thermocapillary migration prefiring tests GS measuring instruments prelaunch tests . fuel gages ∞ tests capillary pumped loops capacitive fuel gages (added September 2003) capture cross sections RT dielectrics DEF Passive, two-phase heat transport sys-USE absorption cross sections tems that utilize the capillary pressure develcapacitors oped in a fine pore evaporator wick to circulate capture effect capacitors GS the working fluid. Often used for cooling elec-DEF An effect in frequency-modulation electrochemical capacitors tronic components in spacecraft, telecommuni-(FM) reception where the stronger signal of two amplifiers cations, and other systems. stations on the same frequency completely suballasts (impedances) CPL (heat transfer) presses the weaker signal. capacitance capillary tubes capacitance switches cooling systems cryogenic cooling RT absorptance ∞ absorption circuit protection ∞ effects circuits evaporative cooling electron capture ∞ condensers heat transfer frequency modulation frequency synchronization dielectrics liquid cooling electrets temperature control electric bridges nuclear capture electric energy storage recombination reactions capillary tubes electric filters trajectory analysis RT ∞ capillaries electric reactors capillary pumped loops captured air bubble vehicles energy storage ∞ tubes GS surface vehicles Gerdien condensers . captured air bubble vehicles parallel plates capillary waves water vehicles solid state devices GS elastic waves captured air bubble vehicles . capillary waves hydrofoil craft ∞ capacity ... gravity waves surface effect ships (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . . . baroclinic waves SWATH (ship) . . ripples ∞ vehicles capacitance surface waves channel capacity . capillary waves Caravelle aircraft . . gravity waves output USE SE-210 aircraft . . . baroclinic waves production engineering risk . ripples Carbamates (tradename) interfacial tension volume esters two dimensional flow . Carbamates (tradename) Cape Hatteras (NC) water waves . urethanes GS landforms poisons capes (landforms) ∞ caps . pesticides Cape Hatteras (NC) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . . insecticides Atlantic Ocean ... Carbamates (tradename) North Carolina ... urethanes RT caps (explosives) coverings Cape Kennedy launch complex carbamides nose cones GS launching bases GS nitrogen compounds polar caps Cape Kennedy launch complex . amides seals (stoppers) RT ground support equipment . . carbamides spherical caps Cape Verde carbazoles caps (explosives) GS nations GS organic compounds explosive devices Cape Verde . cyclic compounds . initiators (explosives) Africa . . heterocyclic compounds caps (explosives) Atlantic Ocean . . . azoles igniters islands . . . . pyrroles . initiators (explosives) . . . . carbazoles caps (explosives) capes (landforms) RT ∞ caps GS landforms carbenes . capes (landforms) detonators DEF An organic radical containing divalent exploding wires . Cape Hatteras (NC) carbon. fuses (ordnance) RT land RT free radicals primers (explosives)

∞ capillaries

SN

GS

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

capillaries (anatomy)

. circulatory system

. . cardiovascular system

capillary tubes

capillaries (anatomy)

anatomy

∞ capsules

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS

LISTED BELOW)

fuel capsules

space capsules

shells (structural forms)

RT ∞ buckets ∞ containers

tablets

131

carbides

more metallic elements.

GS carbon compounds

. . cementite

. . aluminum carbides

. . chromium carbides

. . hafnium carbides

. . boron carbides

. carbides

DEF Compounds of carbon with one or

|         | molybdenum carbides             |           | carbon 12  | GS     | cycles  |
|---------|---------------------------------|-----------|--|--------|---|
|         | niobium carbides                |           |  |        | . carbon cycle                                    |
|         | silicon carbides                | carbon    |  | RT     | animals   |
|         | tantalum carbides               | GS        | chemical elements  | ~      | biology   |
|         | titanium carbides               |           | . carbon   |        | biomass   |
|         | tungsten carbides               |           | carbon isotopes  |        | ecology   |
|         | uranium carbides                |           | carbon 13  |        | organisms   |
|         | vanadium carbides               |           | . nuclides   |        | plants (botany)                                   |
|         | zirconium carbides              |           | . isotopes   |        | viability   |
| RT      | ceramic nuclear fuels           |           | carbon isotopes  |        |   |
|         | refractory materials            |           | carbon 13  | carbon |   |
|         | drate metabolism                |           |  | GS     | carbon compounds                                  |
|         | ydrate metabolism<br>metabolism | carbon    |  |        | . carbon dioxide                                  |
| GS      | . carbohydrate metabolism       | GS        | chemical elements  |        | chalcogenides                                     |
|         | . hyperglycemia                 |           | . carbon   |        | . oxides  |
|         | hypoglycemia                    |           | carbon isotopes<br>carbon 14   |        | dioxides<br>carbon dioxide                        |
| RT      | cortisone                       |           |  |        | gases   |
| 111     | diabetes mellitus               |           | . nuclides   |        | . carbon dioxide                                  |
|         | glucocorticoids                 |           | isotopes   | RT     | Chlorella   |
|         | hydrogen metabolism             |           | carbon isotopes<br>carbon 14   | IXI    | metabolic wastes                                  |
|         | nydrogen metabolism             |           | radioactive isotopes   |        | synthane  |
| carbohy | /drates                         |           | carbon 14  |        | Synthalic   |
| UF      | saccharides                     |           | Carbon 14  | carbon | dioxide concentration                             |
| GS      | organic compounds               | carbon    | arce   | GS     |   |
|         | carbohydrates                   | GS        | electric current   | 00     | . chemical composition                            |
|         | citric acid                     | 00        | . electric discharges  |        | carbon dioxide concentration                      |
|         | glucosides                      |           | electric arcs  |        | . concentration (composition)                     |
|         | nucleosides                     |           | carbon arcs  |        | carbon dioxide concentration                      |
|         | adenines                        | RT        | arc lamps  |        | . gas composition                                 |
|         | guanosines                      | 101       | image furnaces   |        | . carbon dioxide concentration                    |
|         | polysaccharides                 |           | ago ramadoo  | RT     |   |
|         | cellulose                       | carbon    | compounds  |        | atmospheric composition                           |
|         | Fortisan (trademark)            | SN        | (RESTRICTED TO INORGANIC   |        | climate change                                    |
|         | chitin                          |           | COMPOUNDS)   |        | decontamination                                   |
|         | dextrans                        | GS        | carbon compounds   |        | rebreathing                                       |
|         | glycogens                       |           | . carbides   |        | spacecraft cabin atmospheres                      |
|         | starches                        |           | aluminum carbides  |        | ·   |
|         | sugars                          |           | boron carbides   | carbon | dioxide lasers                                    |
|         | dextrans                        |           | cementite  | GS     | stimulated emission devices                       |
|         | inositols                       |           | chromium carbides  |        | . lasers  |
|         | lactose                         |           | . hafnium carbides   |        | gas lasers  |
|         | mannitol                        |           | molybdenum carbides  |        | carbon dioxide lasers                             |
|         | monosaccharides                 |           | niobium carbides   | RT     | chemical lasers                                   |
|         | sucrose                         |           | silicon carbides   |        | continuous wave lasers                            |
|         | hexoses                         |           | tantalum carbides  |        | gas masers  |
|         | galactose                       |           | titanium carbides  |        | infrared lasers                                   |
|         | glucose                         |           | tungsten carbides  |        | Mach-Zehnder interferometers                      |
|         | pentose                         |           | uranium carbides   |        | molecular oscillations                            |
|         | ribose                          |           | vanadium carbides  |        | organic lasers                                    |
|         | xylose                          |           | zirconium carbides   |        | polar gases                                       |
| RT      | alcohols                        |           | . carbon dioxide   |        | pulsed lasers                                     |
|         | ethyl alcohol                   |           | . carbon disulfide<br>. carbon monoxide  |        | Q switched lasers                                 |
| ~       | ofood                           |           | . carbon monoxide  |        | stimulated emission                               |
|         | glycerols                       |           | . carbon suboxides   |        | TEA lasers  |
| ~       | o nutrients                     |           | . carbon tetrafluoride   |        | waveguide lasers                                  |
|         | optical activity                |           | . carbon tetrandonde   | oorbon | diavida ramaval                                   |
| 00      | oxygen compounds photosynthesis |           | bastnasite   | GS     | dioxide removal<br>removal                        |
|         | stereochemistry                 |           | calcium carbonates   | 00     | . carbon dioxide removal                          |
|         | synthetic food                  |           | akermanite   | RT     | air purification                                  |
|         | Synthetic rood                  |           | aragonite  | IXI    | decontamination                                   |
| carbon  |                                 |           | calcite  |        | rebreathing                                       |
| GS      | chemical elements               |           | chalk  |        | smoke abatement                                   |
|         | . carbon                        |           | dolomite (mineral)   |        |   |
|         | carbon isotopes                 |           | polycarbonates   | carbon | dioxide tension                                   |
|         | carbon 12                       |           | Lexan (trademark)  | GS     | carbon dioxide tension                            |
|         | carbon 13                       |           | siderites  |        | . hypercapnia                                     |
|         | carbon 14                       |           | sodium carbonates  |        | . hypocapnia                                      |
| RT      | activated carbon                |           | tetraethyl orthocarbonates   |        |   |
|         | bitumens                        |           | . halocarbons  | carbon | disulfide   |
|         | buckminsterfullerene            |           | chlorocarbons  | GS     | carbon compounds                                  |
|         | carbon nanotubes                |           | chlorofluorocarbons  |        | . carbon disulfide                                |
|         | charcoal                        |           | fluorocarbons  |        | chalcogenides                                     |
|         | coke                            |           | halon  |        | . sulfides  |
|         | decarburization                 |           | . carbon nitrides  |        | disulfides  |
|         | diamonds                        |           | . fullerides   |        | carbon disulfide                                  |
|         | fullerenes                      | RT        | carbonaceous materials   |        | sulfur compounds                                  |
|         | glassy carbon                   |           | ∞ chemical compounds   |        | . sulfides  |
|         | graphite                        | •         | ∞ Group 4A compounds   |        | disulfides  |
|         | soot                            |           | hydrocarbons   |        | carbon disulfide                                  |
|         | 40                              |           | methylidyne  |        | files valufavand aleatic                          |
| carbon  |                                 |           | Swan bands   |        | fiber reinforced plastics                         |
| GS      | chemical elements               |           | avala  | UF     | CFRP  |
|         | . carbon                        | carbon    |  | GS     | composite materials                               |
|         | carbon isotopes                 |           | The path of carbon in living beings in   |        | . fiber composites                                |
|         | carbon 12<br>. nuclides         |           | arbon dioxide is fixed by photosynthesis organic nutrients and ultimately restored |        | carbon fiber reinforced plastics                  |
|         | . nuclides<br>isotopes          |           |  |        | carbon-phenolic composites                        |
|         | carbon isotopes                 |           | norganic state by respiration and proto-   |        | polymer matrix composites     reinforced plastics |
|         | carbon isotopes                 | piasifiit | acody.   |        | reimoroeu piastios                                |

... carbon fiber reinforced plastics ∞ poisoning toxicity . . . carbon-phenolic composites carbon tetrachloride poisoning carbon nanotubes industrial safety (added September 2001) . reinforced plastics ∞ poisoning ... carbon fiber reinforced plastics Single- or multilayer nanotubes comtoxicity and safety hazard carbon-phenolic composites posed of cylindrical graphene sheets of bonded toxicology braided composites carbon atoms, and closed at either end with carbon tetrafluoride caps containing pentagonal rings. These nanographite-epoxy composites tubes are single molecules typically measuring a GS carbon compounds carbon tetrafluoride few nanometers in diameter and several mihalogen compounds crons in length. reinforcing fibers superhybrid materials CNT (nanotechnology) . fluorine compounds tubular fullerenes . . fluoro compounds GS nanostructures (devices) ... fluorine organic compounds woven composites . nanotubes . . . . fluorohydrocarbons .... carbon tetrafluoride . carbon nanotubes carbon fibers RT carbon organic compounds fullerenes . fluorine organic compounds . reinforcing fibers . . carbon fibers . . fluorohydrocarbons graphite . carbon tetrafluoride nanostructure (characteristics) boron fibers . hydrocarbons carbon-phenolic composites carbon nitrides . . fluorohydrocarbons carbon-silicon carbide composites (added October 2001) ... carbon tetrafluoride chemical vapor infiltration carbon compounds composite materials carbon nitrides carbonaceous chondrites fiber composites A group name for friable, dull-black, nitrogen compounds fiber pullout chondritic stoney meteorites, characterized by . nitrides . carbon nitrides the presence of hydrated clay type silicate minpolyacrylonitrile amorphous materials erals, by considerable amounts and a great boron nitrides variety of organic compounds believed to be of carbon isotopes ceramic coatings extraterrestrial origin; by a near or total lack of GS chemical elements free nickel-iron; and by an abnormally high protective coatings . carbon content of inert gases. semiconductors (materials) .. carbon isotopes GS celestial bodies thin films ... carbon 12 . meteorites ... carbon 13 . . stony meteorites carbon stars . . . carbonaceous meteorites C stars . nuclides GS . . . . carbonaceous chondrites celestial bodies . . isotopes . . Alais meteorite . stars ... carbon isotopes . . giant stars Allende meteorite . . . . carbon 12 Cold Bokkeveld meteorite . . . red giant stars . . . . carbon 13 Ivuna meteorite . . carbon stars . . . . carbon 14 . . late stars Murchison meteorite . . . cool stars Murray meteorite carbon lasers Orgueil meteorite ... carbon stars Tonk meteorite stimulated emission devices GS asymptotic giant branch stars chondrites . lasers irregular variable stars . carbon lasers . . . . carbonaceous chondrites Mira variables chemical lasers R Coronae Borealis stars Alais meteorite gas lasers stellar composition Allende meteorite infrared lasers subgiant stars Cold Bokkeveld meteorite Wolf-Rayet stars liquid lasers Ivuna meteorite Murchison meteorite organic lasers stimulated emission carbon steels Murray meteorite alloys Orgueil meteorite . iron alloys . . . . . Tonk meteorite carbon monoxide carbon compounds . . steels GS ... carbon steels carbonaceous materials carbon monoxide . low carbon steels Substance composed of or containing chalcogenides RT high strength steels carbon or carbon compounds. . oxides carbonaceous materials . . carbon monoxide carbon suboxides . graphite gases DEF Colorless lacrimatory gases having un-. . pyrolytic graphite carbon monoxide pleasant odors and boiling points of approxi-. peat RT Hopcalite (trademark) mately -7 degrees C. soot smog GS carbon compounds carbon compounds synthane carbon suboxides coal chalcogenides crude oil carbon monoxide lasers fossil fuels . oxides stimulated emission devices . carbon suboxides lignite . lasers gases ∞ materials . . gas lasers . carbon suboxides organic materials . . carbon monoxide lasers RT ∞ oxygen compounds solvent refined coal chemical lasers continuous wave lasers carbon tetrachloride carbonaceous meteorites infrared lasers tetrachloromethane GS celestial bodies molecular oscillations carbon compounds . meteorites stimulated emission . carbon tetrachloride . . stony meteorites TEA lasers halogen compounds ... carbonaceous meteorites . chlorine compounds . . . . carbonaceous chondrites carbon monoxide poisoning . . chlorides Alais meteorite GS diseases . carbon tetrachloride Allende meteorite . toxic diseases Cold Bokkeveld meteorite . carbon monoxide poisoning . . chlorides Ivuna meteorite ... carbon tetrachloride Murchison meteorite toxicity . carbon monoxide poisoning Murray meteorite . . . . Orgueil meteorite carboxyhemoglobin lethality carbon tetrachloride poisoning RT

diseases

. toxic diseases

. . carbon tetrachloride poisoning

occupational diseases

pathological effects

. . . ureilites

RT exobiology

meteoritic composition rocket nozzles ... propionic acid . . . sebacic acid carbon-silicon carbide composites ... valeric acid carbonaceous rocks (added March 2005) abscisic acid GS rocks Composite materials formed from car-. . folic acid . sedimentary rocks bon embedded in a matrix of silicon carbide. formhydroxamic acid carbonaceous rocks Also known as C/SiC composites. . . formic acid ... coal . . . . anthracite GS composite materials . . Hexogenes (trademark) . ceramic matrix composites . . lactic acid . . . . lignite carbon-silicon carbide . . lysine . . . solvent refined coal composites . . nicotinic acid carbonates RT carbon fibers . . oxalic acid regolith carbon-carbon composites . . oxamic acids shatter cones fiber composites . . tryptophan soils silicon carbides organic compounds carboxylic acids carbonates carbonyl compounds . . acrylic acid bicarbonates carbon compounds RT ∞ chemical compounds . . alanine GS oxetane polymers ... phenylalanine carbonates . . aspartic acid . . bastnasite carborane . . calcium carbonates boron compounds . . dicarboxylic acids . . . akermanite . boron hydrides . . fatty acids . . . aragonite . . boranés ... acetic acid . . . calcite . . carborane . . . . ethylenediaminetetraacetic acids . chalk hydrogen compounds . . . iodoacetic acid . . . acetylsalicylic acid . . dolomite (mineral) . hydrides . . polycarbonates . . boron hydrides benzilic acid . Lexan (trademark) ... boranes benzoic acid siderites . . . . carborane . . . lipoic acid sodium carbonates ... oleic acid . tetraethyl orthocarbonates Carborundum (trademark) ... palmitic acid alkalies RT abrasives propionic acid carbonaceous rocks refractory materials . . . sebacic acid carbonic acid silicon carbides . valeric acid molten carbonate fuel cells . . abscisic acid ∞ oxygen compounds carboxyhemoglobin folic acid GS biopolymers . . formhydroxamic acid carbon-carbon composites . proteins . . formic acid composite materials . . hemoglobin . . Hexogenes (trademark) carbon-carbon composites . . carboxyhemoglobin . . lactic acid carbon-silicon carbide composites organic compounds . . lysine fiber composites . proteins . . nicotinic acid fracture strength hemoglobin . . oxalic acid reinforcing fibers . . carboxyhemoglobin . . oxamic acids thermal protection organometallic compounds . . tryptophan RT carboxyl group thermal resistance . hemoglobin carboxyhemoglobin carboxylates blood circulation carbonic acid terephthalate carbon monoxide poisoning GS acids erythrocytes carbonic acid carburetors injection carburetors carbonates carboxyhemoglobin test chokes (fuel systems) physiological tests GS contactors carbonic anhydrase carboxyhemoglobin test engine parts GS biopolymers RT blood engines proteins hematology fuel injection . . enzymes fuel systems . . carbonic anhydrase carboxyl group injectors organic compounds carboxylic acids internal combustion engines . proteins ∞ jet nozzles . . enzymes carboxylates mixers . . carbonic anhydrase GS esters premixed flames acetazolamide carboxylates . throats RT carboxylic acids carbonization carburizing chemical reactions carboxylation Introducing carbon into a solid ferrous carbonization chemical reactions alloy by holding above Ac1 in contact with a GS charring carboxylation suitable carbonaceous material. The carborized decarbonation alloy is usually quench hardened.

GS hardening (materials) RT decarboxylation carbon-phenolic composites carboxylic acids . carburizina (added January 1993) GS acids RT decarburization GS composite materials . carboxylic acids . fiber composites . . acrylic acid carcinogens . . carbon fiber reinforced plastics . . alanine DEF Agents producing or inciting cancerous carbon-phenolic composites ... phenylalanine growth. . polymer matrix composites . . aspartic acid RT cancer . . reinforced plastics . . citric acid hazardous materials ... carbon fiber reinforced plastics . . dicarboxylic acids neoplasms .... carbon-phenolic composites . . fatty acids . resin matrix composites ... acetic acid carcinoma . . . . ethylenediaminetetraacetic acids carbon-phenolic composites USE cancer plastics . . . . iodoacetic acid . reinforced plastics acetylsalicylic acid carcinotrons . . carbon fiber reinforced plastics . . . benzilic acid GS amplifiers carbon-phenolic composites benzoic acid . carcinotrons ablative materials . . . lipoic acid electron tubes . vacuum tubes carbon fibers ... oleic acid

. . . palmitic acid

. . microwave tubes

phenolic resins

|          | traveling wave tubes                    |         | capillaries (anatomy)               |          | C-121 aircraft                              |
|----------|---|---------|-------------------------------------|----------|---|
|          | carcinotrons                            |         | glomerulus                          |          | C-123 aircraft                              |
|          | microwave equipment                     |         | veins                               |          | C-124 aircraft                              |
|          | . microwave tubes                       |         | heart                               |          | C-130 aircraft                              |
|          |   |         |                                     |          |   |
|          | traveling wave tubes                    |         | cardiac auricles                    |          | C-131 aircraft                              |
|          | carcinotrons                            |         | cardiac ventricles                  |          | C-133 aircraft                              |
| RT       | helitrons                               |         | epicardium                          |          | C-135 aircraft                              |
|          |   |         | heart conduction system             |          | C-140 aircraft                              |
| cardiac  | auricles                                |         | myocardium                          |          | C-141 aircraft                              |
| GS       | anatomy                                 | RT      | angiogenesis                        |          | C-160 aircraft                              |
|          | . circulatory system                    |         | angiography                         |          | CH-21 helicopter                            |
|          | cardiovascular system                   |         | baroreflexes                        |          | CL-44 aircraft                              |
|          |   |         |                                     |          |   |
|          | heart                                   |         | blood                               |          | DC 3 aircraft                               |
|          | cardiac auricles                        |         | blood volume                        |          | DC 7 aircraft                               |
| RT       | His bundle                              |         | cardiac output                      |          | P-160 aircraft                              |
|          |   |         | cardiography                        |          | P-166 aircraft                              |
| cardiac  | output                                  |         | carotid sinus body                  |          | spanloader aircraft                         |
|          | ed March 1991)                          |         | carotid sinus reflex                |          | YC-14 aircraft                              |
| `        | · ·                                     |         |                                     |          |   |
| GS       | •                                       |         | cerebral vascular accidents         |          | air cargo                                   |
|          | . cardiac output                        |         | diastole                            | c        | ∞ aircraft                                  |
|          | heart minute volume                     |         | fat embolisms                       |          | Boeing 727 aircraft                         |
|          | stroke volume                           |         | head up tilt                        |          | Boeing 737 aircraft                         |
| RT       | blood volume                            |         | heart diseases                      |          | Boeing 767 aircraft                         |
|          | cardiovascular system                   |         |                                     |          |   |
|          |   |         | hematopoiesis                       |          | commercial aircraft                         |
|          | heart function                          |         | hematopoietic system                |          | heavy lift helicopters                      |
|          | heart rate                              |         | hemodynamics                        |          | jet aircraft                                |
|          | physiological tests                     |         | hemorrhages                         |          | materials handling                          |
|          | . , ,                                   |         | lower body negative pressure        |          | Mercure aircraft                            |
| cardisc  | ventricles                              |         | , , ,                               |          |   |
|          |   |         | stroke volume                       |          | MH-262 aircraft                             |
| GS       | anatomy                                 | ٥       | o systems                           | c        | ∞ military aircraft                         |
|          | . circulatory system                    |         | systole                             |          | monoplanes                                  |
|          | cardiovascular system                   |         | tilt-table test                     |          | passenger aircraft                          |
|          | heart                                   |         |                                     |          | SC-7 aircraft                               |
|          | cardiac ventricles                      | cards   |                                     |          |   |
| RT       | diastolic pressure                      |         | cards                               |          | supersonic transports                       |
| IXI      | •                                       | GS      |                                     |          | T-39 aircraft                               |
|          | echocardiography                        |         | . punched cards                     |          | TU-154 aircraft                             |
|          | His bundle                              | RT      | computer storage devices            |          | utility aircraft                            |
|          | systole                                 |         | data storage                        |          | VC-10 aircraft                              |
|          | •                                       |         |                                     |          |   |
| cardiog  | irams                                   | caret w | inas                                |          | very large transport aircraft               |
| RT       | biomedical data                         | GS      |                                     |          | thin a                                      |
| IXI      |   | GS      | airfoils                            | cargo s  |   |
|          | cardiography                            |         | . wings                             | UF       | LOTS cargo ships                            |
|          | heart                                   |         | caret wings                         | GS       | surface vehicles                            |
|          |   |         | planforms                           |          | . cargo ships                               |
| cardiog  | raphy                                   |         | caret wings                         |          | Savannah nuclear ship                       |
| GS       | bioengineering                          | RT      | arrow wings                         |          | tanker ships                                |
| -        | . biometrics                            | IXI     |                                     |          | •   |
|          |   |         | delta wings                         |          | water vehicles                              |
|          | cardiography                            |         | waveriders                          |          | . ships                                     |
|          | ballistocardiography                    |         |                                     |          | cargo ships                                 |
|          | electrocardiography                     | CARET   | S (test site)                       |          | Savannah nuclear ship                       |
|          | magnetocardiography                     | USE     | Central Atlantic Regional Ecol Test |          | tanker ships                                |
|          | phonocardiography                       | 002     | Site                                | DT       | •   |
|          |   |         | Site                                | RT       | artificial harbors                          |
|          | echocardiography                        |         |                                     |          | deepwater terminals                         |
|          | seismocardiography                      | cargo   |                                     |          | nuclear powered ships                       |
|          | vectorcardiography                      | UF      | freight                             |          | offshore docking                            |
| RT       | cardiograms                             | GS      | cargo                               |          | offshore platforms                          |
|          | cardiovascular system                   |         | . air cargo                         |          |   |
|          |   |         |                                     |          | shipyards                                   |
|          | heart                                   |         | air mail                            |          | tanker terminals                            |
|          | heart diseases                          |         | . baggage                           |          | wharves                                     |
|          | heart function                          | RT      | air drop operations                 |          |   |
|          | medical equipment                       |         | airdrops                            | cargo s  | spacecraft                                  |
|          | physiological tests                     |         | delivery                            |          | Automated Transfer Vehicle                  |
|          | priyotological toolo                    |         | freight costs                       | 131      | ferry spacecraft                            |
| oordial  | nen/                                    |         |                                     |          | , ,   |
| cardiol  |   |         | harbors                             | c        | ∞ spacecraft                                |
| GS       | medical science                         |         | hauling                             |          |   |
|          | . cardiology                            |         | materials handling                  | Cargon   | naster aircraft                             |
| RT       | angiography                             |         | Multi-Purpose Logistics Modules     | USE      | C-133 aircraft                              |
|          | artificial cardiac pacemaker            |         | railroad humping tests              |          |   |
|          | heart                                   |         | rapid transit systems               | Caribbe  | ean region                                  |
|          |   |         | , ,                                 |          |   |
|          | heart diseases                          |         | transportation                      |          | The region that consists of all or parts    |
|          | heart rate                              |         | transportation energy               |          | slands of the Caribbean Sea, the Baha       |
|          | radiocardiography                       |         | trucks                              | mas, th  | e British dependent territories, the Virgir |
|          |   |         |                                     | Islands. | and the mainland areas of the three         |
| cardiota | achometers                              | cargo a | ircraft                             |          | s and Belize.                               |
| GS       | medical equipment                       | GS      | transport aircraft                  |          | Antigua and Barbuda                         |
| 00       |   | 00      |                                     | 17.1     |   |
|          | cardiotachometers                       |         | cargo aircraft                      |          | Bahamas                                     |
| RT       | heart                                   |         | Breguet 941 aircraft                |          | Barbados                                    |
|          |   |         | C-1A aircraft                       |          | Belize                                      |
| cardiov  | ascular system                          |         | C-2 aircraft                        |          | Cuba  |
|          | The system of an animal pertaining to   |         | C-5 aircraft                        |          | developing nations                          |
|          |   |         |                                     |          |   |
|          | rt and blood vessels. Used for vascular |         | C-9 aircraft                        |          | Dominican Republic                          |
| system.  |   |         | C-15 aircraft                       |          | French Guiana                               |
| UF       | vascular system                         |         | C-17 aircraft                       |          | Grenada                                     |
| GS       | anatomy                                 |         | C-33 aircraft                       |          | Guyana                                      |
|          | . circulatory system                    |         | C-35 aircraft                       |          | Haiti                                       |
|          |   |         |                                     |          |   |
|          | cardiovascular system                   |         | C-46 aircraft                       |          | Jamaica                                     |
|          | blood vessels                           |         | C-47 aircraft                       |          | Martinique                                  |
|          | arteries                                |         | C-54 aircraft                       |          | Surinam                                     |
|          | aorta                                   |         | C-118 aircraft                      |          | Trinidad and Tobago                         |
|          |   |         | C-119 aircraft                      |          |   |
|          | arterioles                              |         | O-113 antiall                       |          | Virgin Islands                              |

West Indies sinuses solar cells carrier mobility Caribbean Sea carotid sinus reflex GS electrical properties GS seas GS reflexes Caribbean Sea . carrier mobility . baroreflexes . . electron mobility Belize . carotid sinus reflex . . hole mobility Cuba arteries Dominican Republic blood vessels mobility . carrier mobility Gulf of Mexico cardiovascular system Gulf Stream . . electron mobility carotid sinus body circulatory system heart function . hole mobility Haiti Panama Canal Zone transport properties . carrier mobility Virgin Islands nerves . . electron mobility sinuses Caribou aircraft . . hole mobility USE DHC 4 aircraft carrier lifetime Carpathian Mountains (Europe) electrical resistivity GS landforms caribous electromagnetic properties . mountains GS animals excitons Carpathian Mountains (Europe) . vertebrates Hall effect RT . . mammals ion implantation . . . deer superconductors (materials) carriages . . . . caribous RT carts carrier modulation chassis Carme USE modulation dollies (added January 1996) frames carrier rockets A natural satellite of Jupiter orbiting at landing gear USE launch vehicles a mean distance of 22,600,000 kilometers. supports GS celestial bodies undercarriages carrier sense multiple access . natural satellites (added April 2000)
DEF A data transmission protocol for multi-. . Jupiter satellites carrier density (solid state) . . Carme The charge carrier concentrations of access networks where each node in the net-RT Jupiter (planet) holes and/or electrons in a semiconductor which work senses traffic and waits for it to clear before determines its electronic characteristics and transmitting; if two or more nodes transmit simultaneously, they wait a random interval before function. GS organic compounds GS density (number/volume) . cyclic compounds attempting to re-transmit. . particle density (concentration) . . heterocyclic compounds protocol (computers) .. electron density (concentration) carrier sense multiple access . . carnitine ... carrier density (solid state) telecommunication acceptor materials . carnitine . multiple access carrier lifetime carrier sense multiple access carrier transport (solid state) transmission carriers An idealized reversible thermodynamic . signal transmission donor materials cycle. The Carnot cycle consists of four stages: . . data transmission electron-hole drops (a) an isothermal expansion of the gas at tem-. . . multiple access semiconductors (materials) perature T1; (b) an adiabatic expansion to tem-... carrier sense multiple access Zener effect perature T2; (c) an isothermal compression at RT communication networks computer networks temperature T2; (d) an adiabatic compression to carrier frequencies the original state of the gas to complete the Ethernet GS frequencies cycle. local area networks carrier frequencies GS cycles packet transmission carrier to noise ratios . thermodynamic cycles frequency division multiplexing . Carnot cycle carrier systems harmonic generations adiabatic conditions USE wireless communication modulation Rankine cycle multiplexing carrier to noise ratios Stirling cycle radio frequencies DEF RF signal power input to the receiver divided by the noise power input. single channel per carrier carotene transmission carrier frequencies GS organic compounds . hydrocarbons sweep frequency communication satellites unified S band data transmission . carotene downlinking pigments carrier injection Earth terminals carotene injection frequency modulation GS retinene signal to noise ratios carrier injection skin (anatomy) additives transmission efficiency Barritt diodes uplinking carotenoids bipolar transistors (added August 2004) carrier transport (solid state) carrier lifetime The general name for a group of fat-DEF The mobility of conduction electrons or charge carriers soluble pigments found in green, yellow, and holes in semiconductors. charge transfer leafy vegetables, and yellow fruits. They are RT carrier density (solid state) injection locking aliphatic hydrocarbons consisting of a polyisocarrier lifetime prene backbone ion injection diffusion length organic compounds majority carriers energy conversion efficiency . hydrocarbons minority carriers solar cells . aliphatic hydrocarbons radiative recombination ... carotenoids semiconductors (materials) carrier waves pigments Suhl effect Waves generated at a point in the traveling solvent method carotenoids

# carotid sinus body

terpenes

arteries blood vessels cardiovascular system carotid sinus reflex chemoreceptors circulatory system nerves

carrier lifetime GS life (durability)

. carrier lifetime

carrier density (solid state) carrier injection

carrier mobility

carrier transport (solid state)

charge carriers minority carriers RT

∞ carriers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN aircraft carriers

transmitting system and modulated by the sig-

nal. Used for subcarrier waves.

radio spectra

modulation

subcarrier waves

carrier density (solid state) . wind tunnels sheaths charge carriers . . hypersonic wind tunnels Zener effect ... cascade wind tunnels casks . . hypervelocity wind tunnels USE barrels (containers) Carrington rotation . . cascade wind tunnels USE solar rotation Caspian Sea hypersonic flow shock tunnels GS seas Cartan space Caspian Sea compressible flow RT RT coasts fluid flow (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS potential flow Cassegrain antennas ∞ space LISTED BELOW)
cascade control GS antennas Cassegrain antennas Cartesian coordinates cascade flow antenna design DEF A coordinate system in which the locacircuits Gregorian antennas tions of points in space are expressed by refercosmic ray showers parabolic antennas ence to three planes, called coordinate planes, electron photon cascades reflector antennas no two of which are parallel. Used for rectangusubreflectors lar coordinates. two reflector antennas cascades (fluid dynamics) rectangular coordinates USE fluid dynamics GS coordinates Cassegrain optics Cartesian coordinates RT fiber optics cascode devices geometry geometrical optics (added August 1998) . Euclidean geometry mirrors . Cartesian coordinates DEF Amplifier devices consisting of a com-∞ optics cylindrical coordinates mon grounded-emitter (cathode) or source reflecting telescopes stage that drives a grounded-base output stage, oblique coordinates telescopes resulting in high-impedance, high-gain, and lowcartilage noise, Cassini mission amplifiers anatomy GS (added August 1988) . musculoskeletal system . cascode devices GS space missions cartilage electronic equipment Cassini mission tissues (biology) . solid state devices European Space Agency . connective tissue . . semiconductor devices European space programs cascode devices . cartilage Huygens probe **CMOS** RT bones international cooperation field effect transistors larvnx Mariner Mark 2 Spacecraft high electron mobility transistors ∞ missions switching circuits cartography NASA space programs USE mapping transistor amplifiers Saturn (planet) transistor circuits space exploration cartridge actuated devices transistors space probes actuators Titan explosive devices cascode MOSFET Titan 4B launch vehicle USE field effect transistors Titan atmosphere cartridges RT cases (containers) Cassiopeia A ∞ containers case bonded propellants GS celestial bodies packages propellants . nebulae solid propellants projectiles ... Cassiopeia A propellants case bonded propellants . radio sources (astronomy) ammunition Cassiopeia À carts composite propellants RT Orion nebula GS carts explosives . Crew Equipment Translation Aid hybrid propellants Cassiopeia constellation (ISS) inhibitors constellations RT carriages plasticizers . Cassiopeia constellation celestial bodies materials handling solid rocket propellants undercarriages celestial sphere case histories stars cascade control GS histories multiloop systems case histories cast alloys automatic control anthropology GS alloys . feedback control biography cast alloys . . cascade control clinical medicine castings RT ∞ cascades documentation mechanical properties ∞ control etiology phenomenology microstructure electronic control rheocasting optical control records squeeze casting remote control sociology Castigliano variational theorem cascade flow theorems GS fluid flow cases (containers) Castigliano variational theorem . cascade flow cases (containers) calculus of variations RT ∞ cascades rocket engine cases energy methods outlet flow boxes (containers) Euler-Lagrange equation turbomachine blades cartridges stress analysis ∞ containers structural analysis Cascade Range (CA-OR-WA) missile bodies land GS packages casting . Cascade Range (CA-OR-WA) ∞ shelves forming techniques landforms . casting . mountains ∞ casing

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS

LISTED BELOW)
coverings

enclosure

pipes (tubes)

iackets

linings

. Cascade Range (CA-OR-WA)

California

**United States** 

Washington

Oregon

cascade wind tunnels

GS test facilities

. . centrifugal casting

. . investment casting . . propellant casting

. squeeze casting

. . rheocasting

. . sand casting

. . slip casting

RT baking

|  | billets   | superhumps (astronomy)  | sea launching  |
|--|---|---|--|
|  | dies  | white dwarf stars   | 3 · · · · · · · · · · · · · · · · · · ·  |
|  | extruding   | Willio awaii olaio  | cataracts  |
|  |   | catalase  | GS diseases  |
|  | forging   |   |  |
|  | inclusions  | GS biopolymers  | . eye diseases   |
|  | ingots  | . proteins  | cataracts  |
|  | liquid metals   | enzymes   | RT lenses  |
|  | melting   | catalase  | occupational diseases  |
|  | metal working   | organic compounds   |  |
| ~  | metallurgy  | . proteins  | catastrophe theory   |
| -  | microstructure  | enzymes   | RT discontinuity   |
|  |   | · ·   | divergence   |
|  | molding materials   | catalase  | predictions  |
|  | molds   | RT cells (biology)  | •  |
|  | mushy zones   |   | ∞ theories   |
|  | pinholes  | ∞ catalogs  | topology   |
|  | polymeric films   | SN (USE OF A MORE SPECIFIC TERM IS  |  |
|  | pouring   | RECOMMENDEDCONSULT THE TERMS  | catchers   |
|  | pultrusion  | LISTED BELOW)   | RT electron bunching   |
|  | •   | RT astronomical catalogs  | klystrons  |
|  | resin transfer molding  | catalogs (publications)   | output   |
|  | shrinkage   | hardware utilization lists  | 7 T-1- T-1   |
|  | solidification  | indexes (documentation)   | catchment areas  |
|  |   | lists   |  |
| casting                                      | solvents  | 11515   | USE watersheds   |
| USE  | plasticizers  | ( . 1 ( 1   | and a first and a  |
|  | p   | catalogs (publications)   | catecholamine  |
| casting                                      | 6   | GS documents  | GS organic compounds   |
| GS   |   | . catalogs (publications)   | . amines   |
| GS   | castings  | astronomical catalogs   | catecholamine  |
|  | . ingots  | RT ∞ catalogs   | epinephrine  |
|  | . propellant casting  | categories  | norepinephrine   |
| RT   | billets   |   |  |
|  | cast alloys   | documentation   | RT dopamine  |
|  | defects   | information dissemination   | hormones   |
|  | degassing   | libraries   | neurotransmitters  |
|  | 0 0   |   |  |
|  | flat patterns   | catalysis   | categories   |
|  | inclusions  | GS catalysis  | RT catalogs (publications)   |
|  | microstructure  | •   | classes  |
|  | molds   | . autocatalysis   |  |
|  | pinholes  | RT ∞ acceleration   | ∞ groups   |
|  | · ·   | activation  | ∞ sections   |
|  | pouring   | catalytic activity  |  |
|  | risers  | cracking (chemical engineering)   | catenaries   |
|  | solidification  | Fischer-Tropsch process   | GS geometry  |
|  |   | reaction kinetics   | . curves (geometry)  |
| Castor 2                                     | 2 engine  | reaction kinetics   | catenaries   |
| USE  | TX-354 engine   |   |  |
|  |   | catalysts   | . Euclidean geometry   |
| castor o                                     | oil   | GS catalysts  | analytic geometry  |
| GS   | oils  | . electrocatalysts  | catenaries   |
| 03   |   | . Hopcalite (trademark)   |  |
|  | castor oil  | . Ziegler catalyst  | catheterization  |
|  | organic compounds   |   | RT blood vessels   |
|  | . lipids  | RT accelerating agents  | intravenous procedures   |
|  | castor oil  | additives   | maronous procedures  |
| RT   | fatty acids   | admixtures  | cathetometers  |
|  | iany acido  | coal derived gases  |  |
| casts  |   | coal derived liquids  | GS measuring instruments   |
|  | d   | enzymes   | . optical measuring instruments  |
| RT   | damage assessment   | Grignard reactions  | cathetometers  |
|  | gauze   |   | optical equipment  |
|  | plasters  | high energy fuels   | . optical measuring instruments  |
|  | splints   | inhibitors  | cathetometers  |
|  |   | ∞ initiators  |  |
| casualti                                     | ies   | platinum black  | cathode glow   |
| RT   | death   | propellant additives  | GS emission  |
|  | disasters   | reagents  |  |
|  |   | retardants  | . light emission   |
|  |   |   |  |
|  | evacuating (transportation)   |   | Iuminescence   |
|  |   | synthesis gas   |  |
| CAT sca                                      |   | synthesis gas   | Iuminescence   |
| CAT sca                                      |   |   | luminescence cathode glow RT cathodoluminescence   |
|  | anner   | synthesis gas   | luminescence cathode glow RT cathodoluminescence glow discharges   |
| USE  | anner computer aided tomography   | synthesis gas  catalytic activity  RT active sites (chemistry)  | luminescence cathode glow RT cathodoluminescence   |
| USE catabol                                  | anner computer aided tomography ism   | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology)   | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  |
| USE  | anner computer aided tomography ism metabolism  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis   | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes   |
| USE<br>catabol<br>GS                         | anner computer aided tomography ism metabolism . catabolism   | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis   | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially of  |
| USE catabol                                  | anner computer aided tomography ism metabolism  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering)   | Iuminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron   |
| USE<br>catabol<br>GS                         | anner computer aided tomography ism metabolism . catabolism   | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors   | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially of  |
| USE<br>catabol<br>GS<br>RT                   | anner computer aided tomography ism metabolism . catabolism   | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering)   | Iuminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron   |
| USE  catabol GS RT  cataclys                 | computer aided tomography ism metabolism catabolism physiology smic variables   | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors   | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a view  |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process   | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phose   |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies . stars  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  | Tuminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a view ing face (or screen). The excitation of the phosphor produces light, the intensity of which  |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies . stars . double stars   | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites   | Iuminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phor produces light, the intensity of which controlled by the flow of electrons. Deflection of   |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies . stars double stars binary stars  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites (added August 2004)   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phor produces light, the intensity of which controlled by the flow of electrons. Deflection of the beam is achieved either electromagnetical  |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies stars double stars binary stars cataclysmic variables  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection of the beam is achieved either electromagnetical by currents in coils around the tube, or electrons   |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies . stars double stars binary stars  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites (added August 2004)   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phor produces light, the intensity of which controlled by the flow of electrons. Deflection of the beam is achieved either electromagnetical  |
| USE  catabol GS RT  cataclys                 | ism metabolism catabolism physiology smic variables celestial bodies stars double stars binary stars cataclysmic variables variable stars variable stars  | synthesis gas  catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites (added August 2004) USE active sites (chemistry)  | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflections.   |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism catabolism physiology smic variables celestial bodies stars double stars binary stars cataclysmic variables variable stars cataclysmic variables cataclysmic variables   | catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites (added August 2004) USE active sites (chemistry)  catapults  | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection of the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  |
| USE  catabol GS RT  cataclys                 | metabolism catabolism physiology smic variables celestial bodies stars double stars binary stars variables variables could be stars could be | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device  | cathode glow  RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phor produces light, the intensity of which controlled by the flow of electrons. Deflection the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes   |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism . catabolism physiology smic variables celestial bodies . stars double stars binary stars cataclysmic variables dwarf stars dwarf stars eclipsing binary stars   | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes   |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism catabolism physiology smic variables celestial bodies stars double stars binary stars cataclysmic variables cataclysmic variables variable stars cataclysmic variables dwarf stars eclipsing binary stars flare stars  | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection at the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes cathode ray tubes  |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism . catabolism physiology smic variables celestial bodies . stars double stars binary stars cataclysmic variables dwarf stars dwarf stars eclipsing binary stars   | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes   |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism catabolism physiology smic variables celestial bodies stars double stars binary stars cataclysmic variables cataclysmic variables variable stars cataclysmic variables dwarf stars eclipsing binary stars flare stars  | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device   | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection at the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes cathode ray tubes  |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | computer aided tomography ism metabolism . catabolism physiology smic variables celestial bodies . stars . double stars binary stars cataclysmic variables variable stars cataclysmic variables dwarf stars eclipsing binary stars flare stars hot stars novae  | catalytic activity  RT active sites (chemistry) activity (biology) autocatalysis catalysis cracking (chemical engineering) enzyme inhibitors Fischer-Tropsch process phosphatases  catalytic sites (added August 2004) USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device usually explosive, for ejecting a person from an aircraft.  | luminescence cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phor produces light, the intensity of which controlled by the flow of electrons. Deflection of the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes cathode ray tubes monoscopes picture tubes                      |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | metabolism catabolism physiology smic variables celestial bodies stars double stars cataclysmic variables cataclysmic variables cataclysmic variables variable stars traible stars duplications   | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device usually explosive, for ejecting a person from an aircraft.  GS launchers  | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially of an electron gun producing a concentrated electron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phor produces light, the intensity of which controlled by the flow of electrons. Deflection of the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes cathode ray tubes monoscopes picture tubes RT display devices             |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism catabolism physiology smic variables celestial bodies . stars binary stars cataclysmic variables variable stars cataclysmic variables dwarf stars eclipsing binary stars flare stars hot stars novae periodic variations solar oscillations  | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device usually explosive, for ejecting a person from an aircraft.  GS launchers     . catapults                        | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes cathode ray tubes monoscopes picture tubes RT display devices electron guns |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism catabolism physiology smic variables celestial bodies stars double stars cataclysmic variables variable stars cataclysmic variables variable stars dwarf stars eclipsing binary stars flare stars hot stars novae periodic variations solar oscillations stellar flares  | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device usually explosive, for ejecting a person from an aircraft.  GS launchers     . catapults     . rocket catapults |  |
| USE<br>catabol<br>GS<br>RT<br>catacly:<br>GS | ism metabolism catabolism physiology smic variables celestial bodies . stars binary stars cataclysmic variables variable stars cataclysmic variables dwarf stars eclipsing binary stars flare stars hot stars novae periodic variations solar oscillations  | catalytic activity  RT active sites (chemistry)     activity (biology)     autocatalysis     cracking (chemical engineering)     enzyme inhibitors     Fischer-Tropsch process     phosphatases  catalytic sites     (added August 2004)     USE active sites (chemistry)  catapults  DEF A power-actuated machine or device for hurling forth something, as an airplane or missile, at a high initial speed; also a device usually explosive, for ejecting a person from an aircraft.  GS launchers     . catapults                        | cathode glow RT cathodoluminescence glow discharges rarefied plasmas  cathode ray tubes  DEF Vacuum tubes consisting essentially an electron gun producing a concentrated elettron beam (or cathode ray) which impinges on phosphorescent coating on the back of a viewing face (or screen). The excitation of the phosphor produces light, the intensity of which controlled by the flow of electrons. Deflection the beam is achieved either electromagnetical by currents in coils around the tube, or electrostatically by voltages on internal deflection plates.  GS electron tubes vacuum tubes cathode ray tubes monoscopes picture tubes RT display devices electron guns |

oscilloscopes face defects in materials. . . . cats printers diffraction **CATT** devices fracture mechanics raster scanning Controlled avalanche transit time tritelevision equipment ∞ optics odes which use avalanche multiplication in the polarized radiation video equipment collector depletion region of a silicon, bipolar, ∞ rays transistor-like structure to increase the gain and surface defects cathodes thereby achieve a higher frequency operation of DEF In electron tubes, electrodes through silicon bipolar transistors. Used for controlled caves which a primary stream of electrons enters the avalanche transit time devices. cavities interelectrode space. controlled avalanche transit time GS electrodes devices kettles (geology) . cathodes RT electron avalanche underground structures . . cell cathodes power gain . . hollow cathodes transit time cavitation . . tube cathodes triodes USE cavitation flow . . . cold cathodes . . . hot cathodes cattle cavitation corrosion ... photocathodes GS animals GS corrosion . . . thermionic cathodes . vertebrates cavitation corrosion . . tunnel cathodes . . mammals RT cavitation flow anodes . . . cattle corrosion prevention cold cathode tubes . . . . calves corrosion resistance electrode materials RT grazing corrosion tests electron emission livestock erosion rangelands frequency modulation photomultipliers cavitation flow photomultiplier tubes CATV The formation of bubbles in a liquid, phototubes USE cable television occurring whenever the static pressure at any thermionics point in the fluid flow becomes less than the fluid Caucasus Mountains (U.S.S.R.) tube anodes vapor pressure. Used for cavitation and gaslandforms GS eous cavitation. . mountains cavitation cathodic coatings Caucasus Mountains (U.S.S.R.) Material forming a continuous film on a gaseous cavitation RT U.S.S.R. fluid flow base metal by mechanical coating or by electro-. turbulent flow plating Cauchy integral formula coatings . . cavitation flow GS analysis (mathematics) . supercavitating flow cathodic coatings . complex variables bubbles anodic coatings ... Cauchy integral formula cavitation corrosion cladding erosion electrode materials Cauchy problem flow distribution electrodeposition UF . Riemann problem impingement electroplating GS boundary value problems separated flow metal oxides Cauchy problem ultrasonic cleaning mischmetal differential equations vortices oxide films Godunov method oxides wakes ∞ problems plating water Cauchy-Riemann equations cavities GS analysis (mathematics) cathodoluminescence UF bores . real variables DEF Luminescence produced when high GS cavities velocity electrons bombard a metal in a vacuum, . . differential equations laser cavities thus vaporizing small amounts of the metal ... partial differential equations RT apertures which, in an excited state, emit radiation char-. Cauchy-Riemann equations boreholes analytic functions acteristic of the metal. caves ∞ equations GS emission cavity flow Godunov method . light emission ∞ cells . . luminescence caulking
DEF Material ranging in physical charactercrack geometry ... cathodoluminescence cracks cathode glow defects istics from plastic to solid to preformed. Used to light sources ducts seal and waterproof joints and overlaps in strucporous silicon gas pockets tures, other assemblies or portions thereof visible spectrum hole distribution (mechanics) where movement may occur. RT moisture resistance catholytes holes (mechanics) plugging conductors o hollow interstices . electrolytes waterproofing . catholytes karst kettles (geology) anolytes causes leakage cell cathodes RT ∞ effects diaphragms (mechanics) openings etiology orifices ∞ origins outlets ∞ sources cations passageways DFF Positively-charged ions. perforated plates caustic lines GS ions perforated shells The locations of wave front interac-. positive ions ∞ perforation tions induced by the maneuvers of supersonic . . cations aircraft in changing direction and/or attitude. ports (openings) . . . formyl ions RT flight paths recesses . . vanadyl radical tooth diseases shock waves anions sonic booms vents cell cathodes voids supersonic flight ionic mobility wave fronts metal ions cavitons DEF Density cavities created by localized caustics oscillating electric fields. cats USE alkalies electric fields GS animals RT

caustics (optics)

DEF The envelope of rays diffracted by sur-

. vertebrates

mammals

plasma density

plasma physics

plasma resonance . . digital computers .... CDC 7600 computer ... CDC 1604 computer CDC 7600 computer cavity flow (added November 1991) GS data processing equipment CDC 3100 computer ĠS fluid flow . computers GS data processing equipment . internal flow . . CDC computers . computers . cavity flow ... CDC 7000 series computers . . CDC computers RT cavities CDC 7600 computer CDC 3100 computer channel flow . . digital computers . . digital computers corner flow ... CDC 7000 series computers . . . CDC 3100 computer ducted flow .... CDC 7600 computer engine inlets CDC 3200 computer CDC 8090 computer ∞ flow GS data processing equipment fluid boundaries GS data processing equipment . computers open channel flow . computers . . CDC computers pipe flow . . CDC computers CDC 3200 computer ... CDC 8090 computer . . digital computers cavity resonators . . digital computers ... CDC 3200 computer resonant cavities ... CDC 8090 computer GS resonators CDC 3600 computer **CDC** computers . cavity resonators GS data processing equipment . superconducting cavity resonators GS data processing equipment circulators (phase shift circuits) . computers . computers . . CDC computers ... CDC computers cyclotron resonance devices ... CDC 3600 computer . . . CDC 160-A computer electron tubes field mode theory . . digital computers CDC 1604 computer Helmholtz resonators CDC 3600 computer ... CDC 3100 computer klystrons CDC 3200 computer ... CDC 3600 computer magnetrons CDC 3800 computer microwave resonance CDC 3800 computer GS data processing equipment CDC 6000 series computers multimode resonators . computers CDC 6400 computer oscillators . . CDC computers resonant frequencies . . . CDC 6600 computer . CDC 3800 computer traveling wave masers CDC 6700 computer . . digital computers CDC 7000 series computers velocity modulation ... CDC 3800 computer CDC 7600 computer CDC 8090 computer cavity vapor generators CDC 6000 series computers CDC Cyber 170 series computers RT ∞ generators GS data processing equipment . CDC Cyber 175 computer vaporizers ... CDC Cyber 74 computer ... CDC Cyber 174 computer ... CDC Cyber 174 computer . computers vapors . . CDC computers ... CDC 6000 series computers ... CDC Cyber 203 computer ... CDC Cyber 205 computer ... CDC Star 100 computer cavs .... CDC 6400 computer ÚSE keys (islands) .... CDC 6600 computer . CDC 6700 computer CC-106 aircraft RT digital computers . . digital computers USE CL-44 aircraft CDC 6000 series computers CDC Cyber 74 computer .... CDC 6400 computer UF Cyber 74 computer
GS data processing equipment CDC 6600 computer USE charge coupled devices . . . . CDC 6700 computer . computers **CCD** cameras . . CDC computers (added September 1995) CDC 6400 computer
GS data processing equipment CDC Cyber 74 computer GS optical equipment . . digital computers . cameras . computers ... CDC Cyber 74 computer . CCD cameras . . CDC computers
. . . CDC 6000 series computers
. . . CDC 6400 computer photographic equipment . cameras CDC Cyber 170 series computers GS data processing equipment CCD cameras . . digital computers . computers CCD star tracker ... CDC 6000 series computers . . CDC computers charge coupled devices Clementine spacecraft .... CDC 6400 computer ... CDC Cyber 170 series computers CDC Cyber 175 computer digital cameras CDC 6600 computer photography . . digital computers GS data processing equipment ... CDC Cyber 170 series . computers CCD star tracker computers . . CDC computers DEF Navigation instrument designed for the . . . . CDC Cyber 175 computer ... CDC 6000 series computers NASA space transportation system. Used for . CDC 6600 computer CDC Cyber 174 computer stellar (star tracker). . . digital computers Stellar (star tracker) GS data processing equipment ... CDC 6000 series computers GS tracking (position) . computers .... CDC 6600 computer . star trackers . . CDC computers . CCD star tracker ... CDC Cyber 174 computer CDC 6700 computer CCD cameras . . digital computers GS data processing equipment celestial navigation ... CDC Cyber 174 computer . computers charge coupled devices .. CDC computers spacecraft guidance CDC Cyber 175 computer ... CDC 6000 series computers GS data processing equipment . CDC 6700 computer CDC 160-A computer . computers . . digital computers GS data processing equipment . . CDC computers ... CDC 6000 series computers ... CDC Cyber 170 series computers . computers .... CDC 6700 computer .. CDC computers .... CDC Cyber 175 computer ... CDC 160-A computer . . digital computers ... ČDC Cyber 170 series computers . . digital computers CDC 7000 series computers ... CDC 160-A computer GS data processing equipment .... CDC Cyber 175 computer . computers CDC 1604 computer . . CDC computers CDC Cyber 203 computer ... CDC 7000 series computers GS data processing equipment data processing equipment

. CDC 7600 computer

... CDC 7000 series computers

. . digital computers

. computers

. . CDC computers

... CDC Cyber 203 computer

. computers

... CDC computers ... CDC 1604 computer

| digital computers  | celescopes   | . infrared sources (astronomy)          |
|--|--|---|
| CDC Cyber 203 computer   | microwave equipment                                | infrared stars                          |
|  | . microwave tubes                                  | . meteorites                            |
| CDC Cyber 205 computer   | celescopes   | iron meteorites                         |
| GS data processing equipment   | mirrors  | Aroos meteorite                         |
| . computers  | celescopes   | Lazarev meteorite                       |
| CDC computers  | optical equipment                                  | Odessa meteorite                        |
| CDC Cyber 205 computer   | . image converters                                 | Sikhote-Alin meteorite                  |
| digital computers  | celescopes   | micrometeorites                         |
| CDC Cyber 205 computer   | telescopes   | stony meteorites                        |
| CDC Star 100 computer  | . <b>celescopes</b><br>RT solar instruments        | achondrites                             |
| GS data processing equipment   | KT Sold instruments                                | Bondoc meteorite                        |
| . computers  |  | chassignites                            |
| CDC computers  | celestial bodies                                   | Kapoeta achondrite                      |
| CDC Star 100 computer  | DEF Any aggregations of matter in space            | nakhlites                               |
| digital computers  | constituting a unit for astronomical study, as the | Norton County achondrite                |
| CDC Star 100 computer  | sun, moon, a planet, comet, star, or nebula. Also  | shergottites                            |
| •  | called heavenly bodies.                            | SNC meteorites                          |
| CDMA   | GS celestial bodies                                | ureilites                               |
| USE code division multiple access  | . asteroid belts                                   | carbonaceous meteorites                 |
| OD DOM   | Toro asteroid<br>. asteroids                       | carbonaceous chondrites Alais meteorite |
| CD-ROM   | Amor asteroid                                      | Allende meteorite                       |
| (added September 1992) GS computer components  | Ambi asteroid                                      | Cold Bokkeveld meteorite                |
| The second secon | Apollo asteroids                                   | Ivuna meteorite                         |
| <ul><li>computer storage devices</li><li>read-only memory devices</li></ul>  | Ceres asteroid                                     | Murchison meteorite                     |
| CD-ROM   | Chiron   | Murray meteorite                        |
| RT data bases  | EROS asteroid                                      | Orgueil meteorite                       |
| information retrieval  | Gaspra asteroid                                    | Tonk meteorite                          |
| information systems  | Icarus asteroid                                    | ureilites                               |
| optical disks  | Ida asteroid                                       | chondrites                              |
| optical memory (data storage)  | Quaoar   | Bruderheim meteorite                    |
| -p (   | Toro asteroid                                      | carbonaceous chondrites                 |
| CE/SE method   | Toutatis asteroid                                  | Alais meteorite                         |
| (added June 2002)  | Trojan asteroids                                   | Allende meteorite                       |
| USE space-time CE/SE method  | Vesta asteroid                                     | Cold Bokkeveld meteorite                |
|  | . blazars  | Ivuna meteorite                         |
| Cedar Rapids (IA)  | BL Lacertae objects                                | Murchison meteorite                     |
| GS cities  | . comet heads                                      | Murray meteorite                        |
| Cedar Rapids (IA)  | . comet nuclei                                     | Orgueil meteorite                       |
| RT Iowa  | . comet tails                                      | Tonk meteorite                          |
| CEEO AM abackant agricument  | . comets   | Harleton meteorite                      |
| CEFOAM checkout equipment  RT checkout   | Arend-Roland comet                                 | Hvittis chondrite                       |
|  | Austin comet                                       | Okhansk meteorite                       |
| ∞ test equipment   | Brorsen-Metcalf comet                              | Pantar chondrites                       |
| ceiling (aircraft capability)  | Encke comet Giacobini-Zinner comet                 | Pribram meteorite tektites              |
| RT ∞ aircraft  | Grigg-Skjellerup comet                             | australites                             |
| aircraft specifications  | Hale-Bopp comet                                    | bediasites                              |
| ∞ ceilings   | Halley's comet                                     | Tungusk meteorite                       |
| flight altitude  | Humason comet                                      | stony-iron meteorites                   |
| flight characteristics   | IRAS-Araki-Alcock comet                            | . meteoroid showers                     |
| · ·  | Kohoutek comet                                     | Aquarid meteoroids                      |
| · ceilings   | Morehouse comet                                    | Arietid meteoroids                      |
| SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  | Mrkos comet  | Cyrillid meteoroids                     |
| RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)  | Okazaki-Levy-Rudenko comet                         | Draconid meteoroids                     |
| RT ceiling (aircraft capability)   | Schwassmann-Wachmann comet                         | Geminid meteoroids                      |
| ceilings (architecture)  | Shoemaker-Levy 9 comet                             | Leonid meteoroids                       |
| ceilings (meteorology)   | Tempel 1 comet                                     | Orionid meteoroids                      |
| 5 · · · · · · · · · · · · · · · · · · ·  | Tempel 2 comet                                     | Perseid meteoroids                      |
| ceilings (architecture)  | West comet   | Quadrantid meteoroids                   |
| RT buildings   | Wild 2 comet                                       | . Taurid meteoroids                     |
| ∞ ceilings   | . faint objects                                    | . meteoroids                            |
| ∞ diffusers  | . galactic clusters                                | Aquarid meteoroids                      |
| floors   | local group (astronomy)                            | Arietid meteoroids                      |
| insulation   | . Virgo galactic cluster . galaxies                | bolides<br>Cyrillid meteoroids          |
| panels   | . active galaxies                                  | Cyrilla meteoroids                      |
| reflectors   | Markarian galaxies                                 | Geminid meteoroids                      |
| ceilings (meteorology)   | radio galaxies                                     | Leonid meteoroids                       |
| DEF The height above the Earth's surface   | Seyfert galaxies                                   | micrometeoroids                         |
| of the lowest layer of clouds or obscuring phe-  | compact galaxies                                   | meteoroid dust clouds                   |
| nomena that is reported as "broken", overcast"   | disk galaxies                                      | zodiacal dust                           |
| or "obscuration" and not classified as "thin" or   | dwarf galaxies                                     | Orionid meteoroids                      |
| "partial".   | elliptical galaxies                                | Perseid meteoroids                      |
| RT aircraft landing  | interacting galaxies                               | Quadrantid meteoroids                   |
| ∞ ceilings   | irregular galaxies                                 | radio meteors                           |
| cloud height indicators  | Maffei galaxies                                    | sporadic meteoroids                     |
| meteorological parameters  | Magellanic clouds                                  | Taurid meteoroids                       |
| meteorology  | peculiar galaxies                                  | . moonlets                              |
| visibility   | ring galaxies                                      | natural satellites                      |
| "  | shell galaxies                                     | icy satellites                          |
| ceilometers  | spiral galaxies                                    | Ariel                                   |
| USE cloud height indicators  | Andromeda Galaxy                                   | Callisto                                |
|  | barred galaxies                                    | Dione                                   |
| celescopes   | Milky Way Galaxy                                   | Enceladus                               |
| GS electron tubes  | protogalaxies                                      | Europa                                  |
| . vacuum tubes   | starburst galaxies                                 | Ganymede                                |
| microwave tubes  | Virgo galactic cluster                             | Hyperion                                |

#### celestial geodesy

. . . lapetus . . hypothetical planets ... R Coronae Borealis stars . . . Mimas protoplanets . . supermassive stars . . triple stars ... Rhea (astronomy) . radio sources (astronomy) . . Cassiopeia A .. variable stars . . . Tethys ... cataclysmic variables . . extragalactic radio sources . . . Titania cepheid variables . . Jupiter satellites . . . radio galaxies flare stars . Adrastea . . . radio jets (astronomy) irregular variable stars . . quasars . . . Amalthea . R Coronae Borealis stars . . radio stars Carme Lambda Tauri stars . . . pulsars . . . Elara Mira variables . . . Galilean satellites . solar system Omicron Ceti star Callisto . star clusters . . . novae . . globular clusters Europa dwarf novae . . Ganymede . . open clusters Hercules nova . . . . lo . . . Pleiades cluster semiregular variable stars . Himalia Praesepe star clusters supernovae . . Leda . supernova 1987A symbiotic stars . Lysithea . . black holes (astronomy) . . . Metis . . brown dwarf stars T Tauri stars . . double stars . Pasiphae . . white holes (astronomy) . . Sinope . write noies (astronomy)
. x ray stars
. soft gamma repeaters
. x ray binaries
. Population I stars
. Population II stars
. Population III stars
. massive compact halo objects . . . binary stars cataclysmic variables Thebe . . Mars satellites . . . . companion stars . Nemesis (star) eclipsing binary stars Deimos . Phobos dwarf novae moon Neptune satellites Galatea meteorite parent bodies . Larissa near Earth objects Naiad stellar systems . Nereid . trans-Neptunian objects Proteus early stars . . Charon . hot stars Triton Pluto (planet) Pluto satellites A stars Quaoar Charon . . B stars . dwarf planets . Hydra shell stars Ceres asteroid . Nix Sigma Orionis Pluto (planet) Saturn satellites blue stars Aries constellation Calypso O stars asteroid capture white dwarf stars . Dione astrodynamics Enceladus Wolf-Rayet stars astrolabes Epimetheus F stars astronomical observatories Helene . . G stars astronomy . . . Hyperion astrophysics lapetus . . giant stars ∞ bodies . Janus . . . asymptotic giant branch stars Cassiopeia constellation Mimas Omicron Ceti star Centaurus constellation . . . red giant stars . . . Pandora Corona Borealis constellation Phoebe . carbon stars Cygnus constellation Prometheus horizontal branch stars gravitational waves Rhea (astronomy) infrared stars impact melts interstellar matter . . Telesto . . late stars Tethys . . . cool stars Lyra constellation . Titan . . . . carbon stars orbits Uranus satellites flare stars solar neighborhood . . . Ariel K stars space flight Cordelia M stars universe . Miranda . Van Biesbroeck star Mira variables
. Omicron Ceti star Oberon celestial geodesy

DEF The determination of the form of the Earth, of the Earth's graviational field, and of relative positions of satellite trajectories. . . . Puck . . . S stars . . . magnetic stars Titania . Umbriel . nebulae . . . magnetars geodesy . celestial geodesy GS Cassiopeia A . . main sequence stars Crab nebula . . . dwarf stars Explorer 29 satellite Explorer 36 satellite Gum nebula dwarf novae H I regions flare stars geodetic satellites H II regions ... red dwarf stars GEOS 1 satellite Herbig-Haro objects . . . sun GEOS 2 satellite Orion nebula . . massive stars GEOS 3 satellite . planetary nebulae . . metallic stars International Satellite Geodesy reflection nebulae . . neutron stars Experiment solar nebula . . . magnetars satellite laser ranging . planetary rings pulsars Jupiter rings ... soft gamma repeaters Saturn rings . . peculiar stars . . Uranus rings ... shell stars celestial mechanics . planets Sigma Orionis DEF The study of the theory of motions of . . extrasolar planets symbiotic stars celestial bodies under the influence of gravitagas giant planets Praesepe star clusters tional fields. . Jupiter (planet) . . protostars GS classical mechanics Neptune (planet) pre-main sequence stars . space mechanics Saturn (planet) . T Tauri stars . celestial mechanics . . . Uranus (planet) . . terrestrial planets . . radio stars astrodynamics . . . pulsars astronomy . Earth (planet) astrophysics . . reference stars ... Mars (planet) ephemerides subdwarf stars Mercury (planet) equations of motion subgiant stars

. . supergiant stars

four body problem

... Venus (planet)

|           | 26.70   |           |  |          | 4. 4.4                                    |
|-----------|---|-----------|--|----------|---|
|           | gravitational waves   |           | proper motion                                    |          | porous materials                          |
|           | hyperbolic trajectories                                     |           | zenith   |          | resolution cell                           |
|           | Lagrangian equilibrium points                               |           |  |          | solar cells                               |
|           | long term effects   | cell an   | odes   |          | tissues (biology)                         |
|           | many body problem   | GS        | electrodes                                       |          | topology                                  |
|           | mechanics (physics)   |           | . anodes   |          | topology                                  |
|           |   |           | cell anodes                                      |          |   |
|           | orbital mechanics   | DT        |  | cells (b | iology)                                   |
|           | orbital resonances (celestial                               | RT        | anions   | UF       | biological cells                          |
|           | mechanics)  |           | anolytes   | GS       | cells (biology)                           |
|           | orbits  |           | cell cathodes                                    |          | . blood cells                             |
|           | perturbation theory   |           | electrode materials                              |          |   |
|           | planets   |           |  |          | erythrocytes                              |
|           |   | cell ca   | thodes   |          | reticulocytes                             |
|           | Roche limit   | GS        | electrodes                                       |          | hemocytes                                 |
|           | Schach effect   | 00        |  |          | leukocytes                                |
|           | solar system  |           | . cathodes                                       |          | eosinophils                               |
|           | stars   |           | cell cathodes                                    |          | lymphocytes                               |
|           | stellar orbits  | RT        | catholytes                                       |          | , ,                                       |
|           | sun   |           | cations  |          | monocytes                                 |
|           |   |           | cell anodes                                      |          | neutrophils                               |
|           | terrestrial planets   |           | electrode materials                              |          | . eukaryotes                              |
|           | three body problem  |           |  |          | . fibroblasts                             |
|           | trajectory analysis   |           | electrodeposition                                |          | . gametocytes                             |
|           | Trojan orbits   |           | 14   |          | eggs                                      |
|           | two body problem  | cell cu   |  |          |   |
|           | Wolf-Rayet stars  | (add      | led August 2004)                                 |          | zygotes                                   |
|           | Trom ray or orang   | DEF       | A technique for maintenance or growth            |          | spermatozoa                               |
| coloctial | navigation  | of anim   | al cells in vitro. It refers to the culturing of |          | . macrophages                             |
|           | The process of directing a craft from                       |           | rived from dispersed cells taken from the        |          | . neurons                                 |
|           | 1 9   |           | tissue, from a primary culture, or from a        |          | axons                                     |
|           | nt to another by reference to celestial                     |           |  |          | dendrites                                 |
| bodies of | f known constants.  |           | or cell strain by enzymatic, mechanical,         |          | neuroblasts                               |
| GS        | navigation  |           | nical disaggregation.                            |          |   |
|           | . celestial navigation                                      | GS        | culture techniques                               |          | . cultured cells                          |
|           | Astroguide Navigation System                                |           | cell culturing                                   |          | . osteoblasts                             |
|           |   | RT        | cells (biology)                                  |          | . prokaryotes                             |
|           | astronavigation   |           | clone cells                                      |          | . protoplasts                             |
|           | air navigation  |           |  |          | . stem cells                              |
|           | autonomous navigation                                       |           | culture media                                    |          | clone cells                               |
|           | CCD star tracker  |           | cultured cells                                   |          |   |
|           | inertial navigation   |           | microbiology                                     |          | . muscle cells                            |
|           | injection guidance  |           | organ culturing                                  |          | muscle fibers                             |
|           |   |           | tissue culturing                                 | RT       | anatomy                                   |
|           | interplanetary navigation                                   |           | tissue engineering                               |          | apoptosis                                 |
|           | polar navigation  |           | ussuc engineering                                | ~        | biology                                   |
|           | radar navigation  | بالمالمة  | dalan  |          | cancer                                    |
|           | radio navigation  | cell div  |  |          | catalase                                  |
|           | reference stars   | GS        | cytogenesis                                      |          |   |
|           | solar position  |           | . cell division                                  |          | cell culturing                            |
|           | space navigation  | RT ·      | ∞ division                                       |          | cell membranes (biology)                  |
|           | spacecraft guidance   |           | mitosis  | ~        | cells                                     |
|           |   |           | reproduction (biology)                           |          | chlorophylls                              |
|           | star trackers   |           | stem cells                                       |          | chloroplasts                              |
|           | surface navigation  |           | Sterri ceris                                     |          | chromosomes                               |
|           |   | aall line |  |          | cloning (biology)                         |
| celestial | observation   | cell line |  |          | culture media                             |
| USE       | astronomy   | ,         | led December 2004)                               |          |   |
|           |   | USE       | cultured cells                                   |          | cytogenesis                               |
| celestial | reference systems   |           |  |          | cytology                                  |
|           | air navigation  | cell me   | embranes (biology)                               |          | cytometry                                 |
|           | astronomical coordinates                                    | GS        | membranes  |          | cytoplasm                                 |
|           |   |           | . cell membranes (biology)                       |          | endoplasmic reticulum                     |
|           | astronomical maps   | RT        |  |          | endothelium                               |
|           | azimuth   | 111       | cells (biology)                                  |          | ganglia                                   |
|           | coordinates   |           | cytology   |          |   |
|           | geocentric coordinates                                      |           | ion channels (biology)                           |          | hematopoiesis                             |
|           | inertial reference systems                                  |           | osmosis  |          | hemoglobin                                |
|           | interplanetary navigation                                   |           |  |          | histochemical analysis                    |
|           | interstellar travel   | cell phy  | /siology   |          | interleukins                              |
|           | laser guide stars   | (add      | led August 2004)                                 |          | Krebs cycle                               |
|           |   | ,         | cytology   |          | lysosomes                                 |
|           | planetocentric coordinates                                  | 301       | ., .=.=9,  |          | mitochondria                              |
|           | proper motion   | celloph   | nane   |          | mitosis                                   |
|           | reference systems   |           |  |          |   |
|           | solar longitude   |           | cellulose  |          | mutagens                                  |
|           | spherical coordinates                                       | •         | ∞ polymers                                       |          | mutations                                 |
|           | systems   |           |  |          | necrosis                                  |
|           | cyclomo   | ∞ cells   |  |          | neuroglia                                 |
| coloctic  | Lanhara   | SN        | (USE OF A MORE SPECIFIC TERM IS                  |          | neurotransmitters                         |
| celestial |   |           | RECOMMENDEDCONSULT THE TERMS                     |          | nuclei (cytology)                         |
|           | An imaginary sphere of infinite radius                      |           | LISTED BELOW)                                    |          | organelles                                |
|           | ic with the Earth, on which all celestial                   | RT        | activation (biology)                             |          |   |
| bodies e  | except the Earth are assumed to be                          |           | cavities   |          | organs                                    |
| projected | d.  |           | cells (biology)                                  |          | plasmolysis                               |
|           | symmetrical bodies  |           | compartments                                     |          | plastids                                  |
|           | . bodies of revolution                                      |           | cores  |          | ribosomes                                 |
|           | spheres   |           | electrochemical cells                            |          | sarcoplasmic reticulum                    |
|           | •   |           |  |          | tissue engineering                        |
|           | celestial sphere  |           | electrolytic cells                               |          | tissues (biology)                         |
|           | Aries constellation   |           | fillers  |          | licouco (biology)                         |
|           | astronomical maps   |           | fuel cells                                       |          |   |
|           | Cassiopeia constellation                                    |           | geophysical fluid flow cells                     | cellular | automata                                  |
|           | Centaurus constellation                                     |           | hexagonal cells                                  | (adde    | ed May 2003)                              |
|           | constellations  |           | honeycomb structures                             |          | A discrete, dynamical system consist-     |
|           | Corona Borealis constellation                               |           | Kerr cells                                       |          | regular array of cells, each of which can |
|           |   |           |  |          |   |
|           | Cygnus constellation  |           | lithium sulfur batteries                         |          | e of a finite number of states. With each |
|           | horizon   |           | particle in cell technique                       |          | p, the cell is updated according to a set |
|           |   |           |  | of local | rules becad on the state of poighboring   |
|           | Lyra constellation  |           | photoconductive cells                            |          | rules based on the state of neighboring   |
|           | Lyra constellation orbital position estimation planispheres |           | photoconductive cells photovoltaic cells         | cells.   | automata theory                           |

Turing machines . Quaternary period weight (mass) . Tertiary Period cellular manufacturing . . Holocene epoch center of pressure (added April 2000) Pleistocene epoch RT ∞ centers USE group technology (manufacturing) Cretaceous-Tertiary boundary hydrostatic pressure extinction moments of inertia cellular materials (non biological) geochronology pressure USE foams paleontology pressure distribution pressure heads cellulose censored data (mathematics) DEF The carbohydrate that is the principal GS data processing censored data (mathematics) centerbodies constituent of wood and forms of structural framework of the wood cells. RT afterbodies RT approximation aircraft structures GS biopolymers ∞ data ∞ bodies polysaccharides error analysis cylindrical bodies . . cellulose probability density functions forebodies . . Fortisan (trademark) reliability fuselages organic compounds sampling . carbohydrates statistical analysis  $\infty$  centers . . polysaccharides statistical distributions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . . . cellulose . . Fortisan (trademark) census cellophane center of gravity animals center of pressure demography Masonite (trademark) color centers human beings synthetic food concentricity ∞ statistics tenite urban planning wood world data centers Centaur launch vehicle cellulose nitrate Centaur vehicle nitrocellulose centimeter waves GS launch vehicles pyroxylin DEF Electromagnetic radiation in the 3,000 . Centaur launch vehicle to 30,000 MHz range. esters . Atlas Centaur launch vehicle electromagnetic radiation . organic nitrates rocket vehicles . cellulose nitrate . radio waves . Centaur launch vehicle explosives . . short wave radiation . Atlas Centaur launch vehicle cellulose nitrate . . . microwaves Atlas D ICBM nitrogen compounds ... centimeter waves liquid propellant rocket engines . nitrates cosmic noise Saturn project . . organic nitrates extraterrestrial radio waves Titan Centaur launch vehicle . . cellulose nitrate microwave frequencies double base propellants superhigh frequencies Centaur project double base rocket propellants GS programs Central African Republic . NASA programs cementation GS . NASA space programs nations adhesive bonding RT Central African Republic ... Centaur project agglomeration RT Africa . projects agglutination . Centaur project bonding . space programs **Central America** heating . . NASA space programs GS regions precipitation (chemistry) ... Centaur project **Central America** Atlas Centaur launch vehicle Belize cementite Costa Rica launch vehicles DEF An intermetallic compound containing Mariner program El Salvador iron and carbon. RL-10 engines Guatemala carbon compounds GS Surveyor project Honduras . carbides Nicaragua . cementite Centaur vehicle North America iron alloys USE Centaur launch vehicle Panama microstructure Panama Canal Zone pearlite South America Centaurus constellation steels constellations Centaurus constellation Central Atlantic Region (US) cements celestial bodies regions adhesives celestial sphere Central Atlantic Region (US) binders (materials) stars **United States** bricks concretes center of gravity ∞ construction materials Central Atlantic Regional Ecol Test Site The center of mass of a system of (CENTRAL ATLANTIC REGIONAL ECOLOGICAL TEST SITE) masses, as the barycenter of the Earth-moon masonry HE CARETS (test site) system. Used for barycenter. mortars (material) sites GS UF barycenter sealing . Central Atlantic Regional Ecol RT center of mass Test Site ∞ centers CEMS system test facilities USE Central Electronic Management centroids . Central Atlantic Regional Ecol gravitational fields System **Test Site** lunar rotation ecology Cenozoic Era mass environment protection moments of inertia (added June 1989) An era of geologic time, from the beginning of the Tertiary Period to the present. center of mass central bulge (galaxies) DEF A point of a material body or system of USE galactic bulge (Some authors do not include the Quarternary, considering it a separate era.) It is characterized bodies which moves as though the system's by the evolution and abundance of mammals, total mass existed at that point and all external Central Electronic Management System advanced mollusks, and birds and paleobotaniforces were applied at the point. CEMS system cally, by angiosperms. The Cenozoic Era is data processing GS mass GS

. center of mass

center of gravity

mascons

RT

. Central Electronic Management

System

RT management

ago

GS Cenozoic Era

considered to have begun about 65 million years

ceramic coatings ∞ systems . centrifugal casting centrifugal force investment casting centrifuges Central Europe ∞ force GS continents centrifugal compressors revolving Europe compressors . Central Europe centrifugal compressors centroids turbomachinery RT center of gravity regions Central Europe centrifugal compressors moments of inertia Austria blowers Centurion aircraft continents compressor blades USE Cessna 210 aircraft Czechoslovakia compressor rotors East Germany impellers cephalagia Germany pump impellers headache ÚSE Hungary pumps Poland radial flow cephalopods Romania rotors GS animals West Germany superchargers . invertebrates turbocompressors . . mollusks central nervous system ... cephalopods centrifugal force GS anatomy . . . octopuses DEF The apparent force in a rotating sys-. nervous system tem, deflecting masses radially from the axis or .. central nervous system cepheid variables . . . brain GS celestial bodies . . . . brain stem angular acceleration . stars . . . . cerebellum centrifuges . . variable stars . . . . cerebral ventricles centripetal force . cepheid variables ... cerebrum ∞ force Cepheus constellation . . . . . cerebral cortex Goertler instability . . . . . occipital lobes Cepheus constellation . . . diencephalon centrifugal pumps GS constellations . . . . . hypothalamus pumps GS Cepheus constellation . . . . pineal gland centrifugal pumps cepheid variables . . . . . thalamus turbomachinery . . . . hippocampus . . . spinal cord RT blood-brain barrier centrifugal pumps axial flow pumps DEF The Fourier transformation of the logafuel pumps rithm of the power spectrum. impellers psychopharmacology GS spectra pump impellers psychotropic drugs . power spectra turbine pumps ∞ systems . . cepstra turbocompressors quefrencies central nervous system depressants centrifuges GS depressants cepstral analysis Specifically in aerospace, large motor . central nervous system driven apparatus with long arms at the end of which human and animal subjects or equipment DEF The application of cepstral methods to depressants wave or signal phenomena in seismology, drugs speech analysis, echos, underwater acoustics, can be revolved and rotated at various speeds . central nervous system to simulate (very closely) the (prolonged) acceldepressants GS data processing erations in high performance aircraft, rockets, and spacecraft. Sometimes called astronautic centrifuges. Used for cyclones (equipment). RT amobarbital . signal analysis psychopharmacology . . cepstral analysis ∞ systems . voice data processing tranquilizers UF cyclones (equipment) ... cepstral analysis centrifuges GS spectrum analysis central nervous system stimulants . human centrifuges . cepstral analysis RT GS drugs centrifugal force acoustic measurement . stimulants centrifuging audio frequencies centripetal force . . central nervous system echoes stimulants classifiers multipath transmission amphetamines clinostats power spectra psychopharmacology concentrators signal reflection ∞ systems extraction signature analysis flight simulators spectral signatures Central Piedmont (US) fluid filters speech recognition GS landforms high gravity environments time lag . terraces (landforms) separators vibration measurement . . plateaus space simulators . . . piedmonts ceramal protective coatings training simulators ... Central Piedmont (US) USE cermets RT mountains protective coatings centrifuging central processing units RT centrifuges ceramals The units of computing systems that clinorotation USF cermets include the circuits controlling the interpretation concentrating of instructions and their execution. Used for extraction ceramic bonding processors (computers). materials recovery GS bonding processors (computers) ∞ separation . ceramic bonding computer components swirling ceramic matrix composites central processing units ceramics . . arithmetic and logic units centrifuging stress . RISC processors stress (biology) ceramic coatings chips (electronics) . acceleration stresses (physiology) (COATINGS CONSISTING OF CERAMIC MATERIALS) SN computer storage devices . centrifuging stress computers stress (physiology) coatings . acceleration stresses (physiology) control units (computers) . inorganic coatings

. centrifuging stress

acceleration tolerance

gravitational physiology

gravity perception

RT angular acceleration

centripetal force

logic circuits

centrifugal casting

. casting

GS

microprocessors

registers (computers)

forming techniques

. . ceramic coatings

. protective coatings

. . ceramic coatings

carbon nitrides finishes

metal coatings

porcelain

sprayed coatings RT abrasives scintillation counters vacuum deposition Bakelite (trademark) Cerenkov effect ceramic fibers ceramic bonding USE Cerenkov radiation DEF Fibers composed of ceramic materials. ceramic fibers Cerenkov radiation They are usually used for reinforcement. ceramic matrix composites fibers cermets DEF The radiation from a charged particle . synthetic fibers clays whose velocity is greater than the phase velocity . ceramic fibers dielectrics that an electromagnetic wave would have if it boron carbides ferroelastic materials were propagating in the medium. The particle ceramic matrix composites ferroelectric materials will continue to lose energy by radiation until its velocity is less than this phase velocity. Used for frit chemical vapor infiltration Cerenkov effect. glass composite wrapping Cerenkov effect glazes heat engines cordage electromagnetic radiation high temperature superconductors injection molding fiber composites Cerenkov radiation fiber orientation RT bremsstrahlung fiber strength masonry corpuscular radiation filament winding ∞ materials science cosmic rays mortars (material)
photoacoustic microscopy ∞ effects ∞ filaments polycarbosilanes gamma ray bursts pyrolytic materials reaction bonding reinforcing fibers gamma rays light (visible radiation) silicon carbides nuclear radiation strands refractories titanium carbides ∞ radiation refractory coatings ultraviolet radiation refractory materials ceramic honeycombs sialon RT ceramic matrix composites **CERES** (experiment) silicon dioxide honeycomb cores (added May 2007) tiles honeycomb structures DEF As a key component of the Earth Obvitrification serving System (EOS) program, the Clouds and YBCO superconductors the Earth's Radiant Energy System (CERES) experiment aims to record cloud properties and ceramic matrix composites yttria-stabilized zirconia DEF Composite materials consisting of a reinforced ceramic matrix. radiative fluxes within the Earth's atmosphere. cerebellum Aboard the TRMM, Terra, and Aqua spacecraft, composite materials GS anatomy the CERES instruments provide radiometric measurements of both solar-reflected and ceramic matrix composites . nervous system . carbon-silicon carbide composites . . central nervous system Earth-emitted radiation from the top of the atmoaircraft construction materials . . . brain boron reinforced materials sphere to the Earth's surface from three broad-. . . . cerebellum ceramic bonding ceramic fibers band channels. CERES data products provide scientists with a better understanding of the cerebral cortex ceramic honeycombs roles of clouds and the energy cycle in global GS anatomy ceramics climate change.

UF Clouds and the Earth's Radiant . nervous system cermets . . central nervous system chemical vapor infiltration Energy System . . . brain composite structures GS programs . . . . cerebrum . projects
. CERES (experiment) crack bridging .... cerebral cortex fiber pullout RT ∞ cortexes fiber pushout RT Aqua spacecraft functionally gradient materials climate change cerebral vascular accidents matrix materials cloud physics RT cardiovascular system nanocomposites clouds (meteorology) ∞ strokes reinforcing fibers data products silicon nitrides Earth atmosphere titanium carbides Earth observations (from space) cerebral ventricles titanium nitrides Earth Observing System (EOS) GS anatomy . nervous system Earth radiation budget ceramic nuclear fuels . . central nervous system Earth radiation budget experiment ceramics . . . brain radiant flux density ceramic nuclear fuels remote sensing . . . cerebral ventricles RT cerebrospinal fluid Terra spacecraft . nuclear fuels terrestrial radiation cerebrum . ceramic nuclear fuels TRMM satellite carbides cerebrospinal fluid Ceres asteroid cermets body fluids GS nitrides GS celestial bodies cerebrospinal fluid plutonium compounds . asteroids brain plutonium oxides ... Ceres asteroid cerebral ventricles sol-gel processes . dwarf planets ∞ fluids thorium compounds Ceres asteroid uranium carbides RT asteroid belts cerebrum uranium compounds GS anatomy uranium oxides ceresin . nervous system GS organic compounds . . central nervous system ceramic-metal composites . hydrocarbons . . . brain . . aliphatic hydrocarbons USE cermets . . . . cerebrum . . . alkanes . . . . cerebral cortex . . . . paraffins ceramics .... ceresin . . . . occipital lobes DEF Inorganic compounds or mixtures re-RT cerebral ventricles quiring heat treatment to fuse them into homogeneous masses usually possessing high temceresin perature strength but low ductility. Types and Cerenkov counters phase change materials GS measuring instruments uses range from china for dishes to refractory liners for nozzles. . counters cerium ceramics . . radiation counters GS chemical elements . ceramic nuclear fuels . . . Cerenkov counters . rare earth elements . lead zirconate titanates . . cerium . radiation measuring instruments . . radiation counters . piezoelectric ceramics . . . cerium isotopes . . . . cerium 137 . porcelain Cerenkov counters

RT Alpha Magnetic Spectrometer

. . . . cerium 144

. Pyroceram (trademark)

|               | metals   | GS        | composite materials  |        | cesium 134                                |
|---------------|--|-----------|--|--------|---|
|               | . rare earth elements  | DT        | . cermets  |        | radioactive isotopes                      |
|               | cerium cerium isotopes   | RT        | ceramic matrix composites ceramic nuclear fuels                          |        | cesium 134<br>metals                      |
|               | cerium 137   |           | ceramics   |        | . alkali metals                           |
|               | cerium 144   |           | combustion synthesis   |        | cesium                                    |
| RT            | mischmetal   |           | heat resistant alloys  |        | cesium isotopes                           |
| oorium        | 127  |           | metals   |        | cesium 134                                |
| cerium<br>GS  | chemical elements  |           | powder metallurgy refractories   |        |   |
| 00            | . nuclides   |           | refractory materials   | cesium | chemical elements                         |
|               | . isotopes   |           | YBCO superconductors   | GS     | . alkali metals                           |
|               | cerium isotopes  |           |  |        | cesium                                    |
|               | cerium 137   | certifica |  |        | cesium isotopes                           |
|               | radioactive isotopes cerium 137                                |           | Personnel - The act of verifying and nting that personnel have completed |        | cesium 137                                |
|               | . rare earth elements  |           | training and have demonstrated spe-                                      |        | . nuclides                                |
|               | cerium   |           | ficiency. Process & Software - An act,                                   |        | isotopes cesium isotopes                  |
|               | cerium isotopes  |           | a responsible official provides a written                                |        | cesium 137                                |
|               | cerium 137   |           | ee that a product, process, or service                                   |        | radioactive isotopes                      |
|               | metals . rare earth elements                                   | ments.    | all performance and design require-                                      |        | cesium 137                                |
|               | cerium   | RT        | aircraft reliability   |        | metals                                    |
|               | cerium isotopes  |           | checkout   |        | . alkali metals cesium                    |
|               | cerium 137   |           | evaluation   |        | cesium isotopes                           |
| !             | 444  |           | flight tests   |        | cesium 137                                |
| cerium<br>GS  | chemical elements  |           | performance tests physiological tests                                    |        |   |
| GS            | . nuclides   |           | psychological tests  | cesium |   |
|               | . isotopes   |           | qualifications   | GS     | chemical elements                         |
|               | cerium isotopes  |           | quality control  |        | . alkali metals cesium                    |
|               | cerium 144   |           | selection  |        | cesium isotopes                           |
|               | radioactive isotopes cerium 144                                |           | site selection   |        | cesium 144                                |
|               | . rare earth elements  |           | training evaluation  |        | . nuclides                                |
|               | cerium   | cesium    |  |        | isotopes                                  |
|               | cerium isotopes  | GS        | chemical elements  |        | cesium isotopes                           |
|               | cerium 144   |           | . alkali metals  |        | cesium 144 radioactive isotopes           |
|               | metals . rare earth elements                                   |           | cesium cesium isotopes   |        | cesium 144                                |
|               | cerium   |           | cesium 133   |        | metals                                    |
|               | cerium isotopes  |           | cesium 134   |        | . alkali metals                           |
|               | cerium 144   |           | cesium 137   |        | cesium                                    |
|               |  |           | cesium 144   |        | cesium isotopes                           |
| GS            | compounds rare earth compounds                                 |           | metals . alkali metals   |        | ocsialii 144                              |
| GS            | . cerium compounds   |           | cesium   | cesium | allovs                                    |
|               | bastnasite   |           | cesium isotopes  | GS     | alloys                                    |
|               | cerium oxides  |           | cesium 133   |        | cesium alloys                             |
|               | chemical compounds   |           | cesium 134   | RT     | alkali metals                             |
| 0             | metal compounds  |           | cesium 137<br>cesium 144   |        | cesium                                    |
| cerium        | isotopes   | RT        | cesium alloys  | aaaium | antimonides                               |
| GS            | chemical elements  |           | cesium antimonides   | GS     | antimony compounds                        |
|               | . nuclides   |           | cesium bromides  | 00     | . antimonides                             |
|               | isotopes   |           | cesium diodes  |        | cesium antimonides                        |
|               | cerium isotopes<br>cerium 137                                  |           | cesium engines<br>cesium fluorides                                       |        | cesium compounds                          |
|               | cerium 144   |           | cesium halides   | RT     | . cesium antimonides cesium               |
|               | . rare earth elements  |           | cesium hydrides  | IXI    | Cesium                                    |
|               | cerium   |           | cesium iodides   | cesium | bromides                                  |
|               | cerium isotopes  |           | cesium ions  | GS     | cesium compounds                          |
|               | cerium 137<br>cerium 144                                       |           | cesium plasma<br>cesium vapor  |        | . cesium halides                          |
|               | metals   |           | cesium vapor   |        | cesium bromides                           |
|               | . rare earth elements  | cesium    | 133  |        | halogen compounds                         |
|               | cerium   | GS        | chemical elements  |        | . bromine compounds bromides              |
|               | cerium isotopes  |           | . alkali metals  |        | cesium bromides                           |
|               | cerium 137<br>cerium 144                                       |           | cesium cesium isotopes   |        | . halides                                 |
|               | Cerium 144   |           | cesium 133   |        | bromides                                  |
| cerium        | oxides   |           | . nuclides   |        | cesium bromides                           |
| GS            | chalcogenides  |           | isotopes   |        | metal halides<br>alkali halides           |
|               | . oxides   |           | cesium isotopes  |        | cesium halides                            |
|               | metal oxides cerium oxides                                     |           | cesium 133<br>metals   |        | cesium bromides                           |
|               | rare earth compounds   |           | . alkali metals  | RT     | cesium                                    |
|               | . cerium compounds   |           | cesium   |        |   |
|               | cerium oxides  |           | cesium isotopes  |        | compounds                                 |
|               |  |           | cesium 133   | GS     | cesium compounds                          |
| cermets       | Bodies consisting of ceramic particles                         | cesium    | 134  |        | . cesium antimonides . cesium halides     |
|               | with a metal; used in aircraft, rockets,                       | GS        | chemical elements  |        | cesium bromides                           |
|               | cecraft for high strength, high tempera-                       |           | . alkali metals  |        | cesium fluorides                          |
| ture app      | lications. The name is derived from a                          |           | cesium   |        | cesium iodides                            |
|               | tion of CERamic and METal. Used for                            |           | cesium isotopes  |        | . cesium hydrides                         |
| ceramal<br>UF | protective coatings and ceramals.  ceramal protective coatings |           | cesium 134<br>. nuclides   | DT     | . cesium oxides<br>alkali metal compounds |
| OI.           | ceramals   |           | . isotopes   |        | chemical compounds                        |
|               | ceramic-metal composites                                       |           | cesium isotopes  |        | metal compounds                           |

|        | metal fuels                            | RT                  | cesium                                   |          | Cessna 205 aircraft                                     |
|--------|--|---------------------|--|----------|---|
| cesium | diodes                                 | cesium              | isotopes                                 |          | single engine aircraft<br>. <b>Cessna 205 aircraf</b> t |
| GS     | electron tubes                         | GS                  | chemical elements                        |          | aircraft  |
|        | . thermionic diodes                    |                     | . alkali metals                          | _        |   |
|        | cesium diodes                          |                     | cesium                                   |          | 210 aircraft  |
|        | . vacuum tubes cesium diodes           |                     | cesium isotopes<br>cesium 133            |          | Centurion aircraft Cessna aircraft                      |
|        | electronic equipment                   |                     | cesium 134                               |          | . Cessna 210 aircraft                                   |
|        | . diodes                               |                     | cesium 137                               |          | general aviation aircraft                               |
|        | thermionic diodes                      |                     | cesium 144                               |          | . Cessna 210 aircraft                                   |
|        | cesium diodes                          |                     | . nuclides                               |          | light aircraft  |
| RT     | cesium                                 |                     | isotopes                                 |          | . Cessna 210 aircraft                                   |
|        | plasma diodes<br>thermionic converters |                     | cesium isotopes<br>cesium 133            |          | monoplanes<br>. Cessna 210 aircraft                     |
|        | thermionic converters                  |                     | cesium 134                               |          | passenger aircraft                                      |
| cesium | engines                                |                     | cesium 137                               |          | . Cessna 210 aircraft                                   |
| GS     | engines                                |                     | cesium 144                               |          | single engine aircraft                                  |
|        | . rocket engines                       |                     | metals                                   |          | . Cessna 210 aircraft                                   |
|        | electric rocket engines                |                     | . alkali metals cesium                   | Cessna   | 402B aircraft   |
|        | electrostatic engines ion engines      |                     | cesium isotopes                          |          | A lighter, twin-engine, short-hau                       |
|        | cesium engines                         |                     | cesium 133                               |          | ssenger aircraft manufactured by the                    |
| RT     | cesium                                 |                     | cesium 134                               |          | Aircraft Company.                                       |
|        |  |                     | cesium 137                               |          | Cessna aircraft   |
| cesium | fluorides                              |                     | cesium 144                               |          | . Cessna 402B aircraft                                  |
| GS     | cesium compounds                       | cesium              | oxides                                   |          | general aviation aircraft . Cessna 402B aircraft        |
|        | . cesium halides cesium fluorides      | GS                  | cesium compounds                         |          | light aircraft  |
|        | halogen compounds                      |                     | . cesium oxides                          |          | . Cessna 402B aircraft                                  |
|        | . fluorine compounds                   |                     | chalcogenides                            |          | monoplanes  |
|        | fluorides                              |                     | . oxides                                 |          | . Cessna 402B aircraft                                  |
|        | metal fluorides                        |                     | metal oxides                             |          | passenger aircraft                                      |
|        | cesium fluorides                       |                     | cesium oxides                            |          | . Cessna 402B aircraft transport aircraft               |
|        | . halides fluorides                    | cesium              | plasma                                   |          | . short haul aircraft                                   |
|        | metal fluorides                        | GS                  | particles                                |          | Cessna 402B aircraft                                    |
|        | cesium fluorides                       |                     | . charged particles                      | RT ∞     | aircraft  |
|        | metal halides                          |                     | energetic particles                      | 0        |   |
|        | alkali halides                         |                     | plasmas (physics) metallic plasmas       | Cessna   | aircraft<br>Cessna aircraft                             |
|        | cesium halides                         |                     | cesium plasma                            |          | . A-37 aircraft   |
|        | cesium fluorides metal fluorides       |                     | . corpuscular radiation                  |          | . Cessna 172 aircraft                                   |
|        | cesium fluorides                       |                     | energetic particles                      |          | . Cessna 205 aircraft                                   |
| RT     | cesium                                 |                     | plasmas (physics)                        |          | . Cessna 210 aircraft                                   |
|        |  |                     | metallic plasmas                         |          | . Cessna 402B aircraft                                  |
| cesium | halides                                | RT                  | cesium plasma cesium                     |          | . Cessna L-19 aircraft<br>. T-37 aircraft               |
| GS     | cesium compounds                       | KI                  | thermionic converters                    |          | aircraft  |
|        | . cesium halides                       |                     | thermonic converters                     | 1(1 00   | anoran  |
|        | cesium bromides cesium fluorides       | cesium              |  | Cessna   | L-19 aircraft   |
|        | cesium iodides                         | GS                  | chemical elements                        |          | Cessna aircraft   |
|        | halogen compounds                      |                     | . alkali metals                          |          | . Cessna L-19 aircraft                                  |
|        | . halides                              |                     | cesium vapor<br>. nuclides               |          | light aircraft<br>. Cessna L-19 aircraft                |
|        | metal halides                          |                     | isotopes                                 |          | monoplanes  |
|        | alkali halides<br>cesium halides       |                     | cesium vapor                             |          | . Cessna L-19 aircraft                                  |
|        | cesium bromides                        |                     | metals                                   |          | observation aircraft                                    |
|        | cesium fluorides                       |                     | . alkali metals                          |          | . Cessna L-19 aircraft                                  |
|        | cesium iodides                         |                     | cesium vapor                             |          | reconnaissance aircraft                                 |
| RT     | cesium                                 |                     | vapors<br>. cesium vapor                 |          | . Cessna L-19 aircraft<br>aircraft                      |
|        |  | RT                  | cesium                                   | 101      | anoran  |
|        | hydrides                               |                     | mercury vapor                            | CETA ca  |   |
| GS     | cesium compounds . cesium hydrides     | _                   | 470 - 1 6                                |          | d December 2002)  |
|        | hydrogen compounds                     | <b>Cessna</b><br>GS | 172 aircraft Cessna aircraft             | USE      | Crew Equipment Translation Aid                          |
|        | . hydrides                             | GS                  | . Cessna 172 aircraft                    |          | (ISS)   |
|        | metal hydrides                         |                     | general aviation aircraft                | cetane   |   |
|        | cesium hydrides                        |                     | . Cessna 172 aircraft                    | GS       | organic compounds                                       |
| RT     | cesium                                 |                     | light aircraft                           |          | . hydrocarbons  |
| ooolum | iodides                                |                     | . Cessna 172 aircraft                    |          | aliphatic hydrocarbons                                  |
| GS     | cesium compounds                       |                     | monoplanes                               |          | alkanes<br><b>cetane</b>                                |
| 00     | . cesium halides                       |                     | . Cessna 172 aircraft passenger aircraft |          | Cetaile   |
|        | cesium iodides                         |                     | . Cessna 172 aircraft                    | cetyl co | npounds   |
|        | halogen compounds                      |                     | single engine aircraft                   |          | alkyl compounds   |
|        | . halides                              |                     | . Cessna 172 aircraft                    |          | cetyl compounds   |
|        | metal halides<br>alkali halides        | RT •                | ∘ aircraft                               | RT ∞     | chemical compounds                                      |
|        | cesium halides                         | Casena              | 205 aircraft                             | Ceylon   |   |
|        | cesium iodides                         | GS                  | Cessna aircraft                          |          | Sri Lanka   |
|        | . iodine compounds                     |                     | . Cessna 205 aircraft                    |          |   |
|        | iodides                                |                     | general aviation aircraft                | CF-104 a |   |
| DT     | cesium iodides                         |                     | . Cessna 205 aircraft                    |          | Canadair aircraft                                       |
| RT     | cesium                                 |                     | light aircraft                           |          | F-104 aircraft  |
| cesium | ions                                   |                     | . Cessna 205 aircraft monoplanes         | CF-700 € | engine  |
| GS     | ions                                   |                     | . Cessna 205 aircraft                    |          | engines   |
|        | . cesium ions                          |                     | passenger aircraft                       |          | air breathing engines                                   |

|             | gas turbine engines              |          | military helicopters   | c      | ∞ links               |
|-------------|----------------------------------|----------|--|--------|-----------------------|
|             | jet engines                      |          | CH-46 helicopter   |        | molecular chains      |
|             | turbojet engines                 |          | tandem rotor helicopters   |        | molocular chamb       |
|             | turbofan engines                 |          | CH-46 helicopter   | -11    |                       |
|             | CF-700 engine                    |          | o o o . o . o . o . o .  | chairs |                       |
|             | internal combustion engines      | CH-47 h  | nelicopter   | USE    | seats                 |
|             | gas turbine engines              | UF       | Chinook helicopter   |        |                       |
|             | jet engines                      |          | HC-1 helicopter  |        | genides               |
|             | turbojet engines                 | GS       | Boeing aircraft  | GS     | chalcogenides         |
|             | turbofan engines                 |          | . CH-47 helicopter   |        | . oxides              |
|             | CF-700 engine                    |          | passenger aircraft   |        | alkoxides             |
|             | . turbine engines                |          | . CH-47 helicopter   |        | anhydrides            |
|             | gas turbine engines              |          | transport aircraft   |        | peroxides             |
|             | jet engines                      |          | CH-47 helicopter   |        | inorganic peroxides   |
|             | turbojet engines                 |          | V/STOL aircraft  |        | hydrogen peroxide     |
|             | turbofan engines                 |          | . rotary wing aircraft   |        | organic peroxides     |
|             | CF-700 engine                    |          | helicopters  |        | potassium peroxides   |
| RT          | vertical takeoff aircraft        |          | military helicopters   |        | sodium peroxides      |
|             |                                  |          | CH-47 helicopter   |        | boron oxides          |
| <b>CFCs</b> |                                  |          | tandem rotor helicopters   |        | brucite               |
| USE         | chlorofluorocarbons              |          | CH-47 helicopter   |        | carbon monoxide       |
|             |                                  |          |  |        | carbon suboxides      |
| CFD         |                                  | CH-53 F  | nelicopter   |        | chlorine oxides       |
| USE         | charge flow devices              | USE      | H-53 helicopter  |        | dioxides              |
|             |                                  |          |  |        | carbon dioxide        |
| CFRP        |                                  |          | nelicopter   |        | flint                 |
| USE         | carbon fiber reinforced plastics | UF       | S-64 helicopter  |        | hydrogen peroxide     |
|             |                                  |          | Sikorsky S-64 helicopter   |        | silicon dioxide       |
| CH (me      | ethylidyne)                      |          | Skycrane helicopter  |        | quartz                |
| USE         | methylidyne                      | GS       | passenger aircraft   |        | coesite               |
|             |                                  |          | CH-54 helicopter   |        | stishovite            |
|             | elicopter                        |          | Sikorsky aircraft  |        | sulfur dioxides       |
| GS          | passenger aircraft               |          | CH-54 helicopter   |        | germanium oxides      |
|             | . CH-3 helicopter                |          | transport aircraft   |        | heavy water           |
|             | Sikorsky aircraft                |          | . CH-54 helicopter   |        | indium oxides         |
|             | . CH-3 helicopter                |          | V/STOL aircraft  |        | metal oxides          |
|             | transport aircraft               |          | . rotary wing aircraft   |        | alkaline earth oxides |
|             | . CH-3 helicopter                |          | helicopters  |        | barium oxides         |
|             | V/STOL aircraft                  |          | military helicopters   |        | beryllium oxides      |
|             | . rotary wing aircraft           |          | CH-54 helicopter   |        | alexandrite           |
|             | helicopters                      |          |  |        | calcium oxides        |
|             | military helicopters             |          | nelicopter   |        | akermanite            |
|             | CH-3 helicopter                  | GS       | Boeing aircraft  |        | magnesium oxides      |
|             | rigid rotor helicopters          |          | . CH-62 helicopter   |        | akermanite            |
|             | CH-3 helicopter                  |          | V/STOL aircraft  |        | periclase             |
| RT          | S-61 helicopter                  |          | rotary wing aircraft   |        | aluminum oxides       |
|             |                                  |          | helicopters  |        | alexandrite           |
|             | helicopter                       |          | heavy lift helicopters   |        | sapphire              |
| UF          | H-21 helicopter                  |          | CH-62 helicopter   |        | bismuth oxides        |
|             | Shawnee helicopter               |          | military helicopters   |        | cerium oxides         |
|             | Workhorse helicopter             |          | CH-62 helicopter   |        | cesium oxides         |
| GS          | Boeing aircraft                  | RT ∝     | military aircraft  |        | chromium oxides       |
|             | . CH-21 helicopter               | 011.440  |  |        | cobalt oxides         |
|             | transport aircraft               |          | helicopter   |        | copper oxides         |
|             | . cargo aircraft                 | USE      | CH-46 helicopter   |        | gallium oxides        |
|             | CH-21 helicopter                 | Chad     |  |        | hafnium oxides        |
|             | V/STOL aircraft                  | GS       | nations  |        | iron oxides           |
|             | . rotary wing aircraft           | 03       | . Chad   |        | hematite              |
|             | helicopters                      | RT       | Africa   |        | ilmenite              |
|             | military helicopters             | KI       | Allica   |        | magnetite             |
|             | CH-21 helicopter                 | chaff    |  |        | lanthanum oxides      |
|             |                                  | GS       | countermeasures  |        | lead oxides           |
|             | helicopter                       | 00       | . electronic countermeasures   |        | lithium oxides        |
| UF          | Choctaw helicopter               |          | chaff  |        | manganese oxides      |
|             | H-34 helicopter                  | RT       | deception  |        | Hopcalite (trademark) |
| GS          | Sikorsky aircraft                | 13.1     | electronic warfare   |        | mercury oxides        |
|             | CH-34 helicopter                 |          | radar echoes   |        | mixed oxides          |
|             | transport aircraft               |          |  |        | BSCCO superconductors |
|             | . CH-34 helicopter               | chain re | eactions (chemistry)   |        | YBCO superconductors  |
|             | V/STOL aircraft                  |          | ed May 1999)   |        | molybdenum oxides     |
|             | . rotary wing aircraft           | GS       | chemical reactions   |        | nickel oxides         |
|             | helicopters                      |          | . chain reactions (chemistry)  |        | niobium oxides        |
|             | military helicopters             | RT       | chemical lasers  |        | platinum oxides       |
|             | CH-34 helicopter                 | 1.11     | combustion chemistry   |        | plutonium oxides      |
| RT          | S-58 helicopter                  |          | Table 1 of the state of the sta |        | potassium oxides      |
|             |                                  | chain re | eactions (nuclear physics)   |        | scandium oxides       |
|             | helicopter                       |          | ed May 1999)   |        | silver oxides         |
| UF          | CH-113 helicopter                |          | nuclear reactions  |        | sodium peroxides      |
|             | HRB-1 helicopter                 |          | . nuclear fission  |        | strontium oxides      |
|             | Sea Knight helicopter            |          | chain reactions (nuclear   |        | tantalum oxides       |
|             | Voyageur helicopter              |          | physics)   |        | thorium oxides        |
| GS          | Boeing aircraft                  | RT       | fission products   |        | tin oxides            |
|             | . CH-46 helicopter               | 131      | neutrons   |        | titanium oxides       |
|             | passenger aircraft               |          |  |        | anatase               |
|             | CH-46 helicopter                 | chains   |  |        | ilmenite              |
|             | transport aircraft               | SN       | (EXCLUDES CHEMICAL BONDS AND   |        | rutile                |
|             | CH-46 helicopter                 |          | NUCLEAR REACTIONS)   |        | tungsten oxides       |
|             | V/STOL aircraft                  | RT ∝     | barriers   |        | scheelite             |
|             | . rotary wing aircraft           |          | cables (ropes)   |        | uranium oxides        |
|             | helicopters                      |          | fasteners  |        | vanadium oxides       |

|         | yttrium oxides                          | Space Shuttle mission 31-B                      |          | terrain analysis  |
|---------|---|---|----------|---|
|         | zinc oxides                             | Space Shuttle mission 31-C                      |          |   |
|         | zirconium oxides                        | Space Shuttle mission 31-D                      |          | capacity  |
|         | yttria-stabilized zirconia              | Space Shuttle mission 41-B                      | RI       | Aloha system  |
|         | . nitrogen oxides                       | Space Shuttle mission 41-C                      |          | bandwidth   |
|         | nitric oxide                            | Space Shuttle mission 41-G                      | 00       | capacity  |
|         | nitrogen dioxide                        | Space Shuttle mission 51-B                      |          | cochannel interference                                    |
|         | nitrogen tetroxide                      | Space Shuttle mission 51-E                      |          | demand assignment multiple access                         |
|         | nitrous oxides                          | Space Shuttle mission 51-F                      |          | frequencies   |
|         | phosphorus oxides                       | Space Shuttle mission 51-L                      |          | packet transmission<br>transmission rate (communications) |
|         | pyroxenes                               | Space Shuttle mission 61-A                      |          | transmission rate (communications)                        |
|         | enstatite                               | ∞ spacecraft                                    | channel  | flow  |
|         | selenium oxides<br>silicon oxides       | ∞ chambers                                      |          | fluid flow  |
|         | muscovite                               | SN (USE OF A MORE SPECIFIC TERM IS              |          | . internal flow   |
|         | nephelite                               | RECOMMENDEDCONSULT THE TERMS                    |          | channel flow  |
|         | silicon dioxide                         | LISTED BELOW)                                   |          | open channel flow   |
|         | quartz                                  | RT anechoic chambers                            | RT       | annular flow  |
|         | coesite                                 | arc chambers                                    |          | Brinkman number   |
|         | stishovite                              | bubble chambers                                 |          | cavity flow   |
|         | spodumene                               | cloud chambers                                  |          | choked flow   |
|         | sulfur oxides                           | combustion chambers                             |          | corner flow   |
|         | sulfur dioxides                         | cylindrical chambers<br>flexing                 |          | dredged materials   |
|         | . selenides                             | flow chambers                                   |          | ducted flow   |
|         | cadmium selenides                       | hyperbaric chambers                             |          | flow geometry   |
|         | copper selenides                        | ionization chambers                             |          | fluid injection   |
|         | copper indium selenides                 | plenum chambers                                 |          | incompressible fluids                                     |
|         | gallium selenides                       | pressure chambers                               |          | outlet flow   |
|         | indium selenides                        | reverberation chambers                          |          | pipe flow   |
|         | copper indium selenides                 | spark chambers                                  |          | wall flow   |
|         | lead selenides                          | test chambers                                   |          |   |
|         | zinc selenides                          | thrust chambers                                 |          | multipliers   |
|         | . sulfides                              | vacuum chambers                                 | UF       | channeltrons  |
|         | disulfides                              | radam diambolo                                  | GS       | multipliers   |
|         | carbon disulfide                        | Chance-Vought aircraft                          | DT       | . channel multipliers                                     |
|         | inorganic sulfides                      | RT ∞ aircraft                                   | RT       | auroral spectroscopy                                      |
|         | barium sulfides                         |   |          | electron avalanche  |
|         | bismuth sulfides                        | Chandler motion                                 |          | microchannel plates                                       |
|         | cadmium sulfides                        | USE polar wandering (geology)                   |          | photomultiplier tubes                                     |
|         | calcium sulfides                        |   |          | radiation counters  |
|         | copper sulfides                         | Chandler wobble                                 | channel  | noise   |
|         | hydrogen sulfide                        | (added September 1992)                          |          | In communications bursts of interrup-                     |
|         | indium sulfides                         | SN (EXCLUDES CHANDLER MOTION)                   |          | es caused mainly by contact closures in                   |
|         | lead sulfides                           | DEF A movement in the Earth's axis of           |          | agnetic equipment or by transient volt-                   |
|         | molybdenum sulfides                     | rotation whose period of motion is about 14     |          | electric cables during transmission of                    |
|         | molybdenum disulfides                   | months. Used for Eulerian nutation.             |          | or data. Impulsive noise is the frequent                  |
|         | polysulfides                            | UF <i>Eulerian nutation</i><br>GS nutation      |          | f transmission errors.                                    |
|         | strontium sulfides                      |   |          | Aloha system  |
|         | zinc sulfides                           | . <b>Chandler wobble</b><br>RT Earth axis       |          | background noise  |
|         | wurtzite                                | ∞ Earth motion                                  |          | cochannel interference                                    |
|         | zincblende                              | Earth orientation                               |          | electromagnetic noise                                     |
|         | pyrites                                 | Earth rotation                                  |          | noise spectra   |
|         | pyrrhotite                              | geodynamics                                     |          | random noise  |
|         | troilite . tellurides                   | geophysics                                      |          | signal to noise ratios                                    |
|         | bismuth tellurides                      | polar wandering (geology)                       |          | thermal noise   |
|         |   | polar wardering (geology)                       |          | time division multiple access                             |
|         | cadmium tellurides<br>indium tellurides | Chandra X Ray Astrophysics Facility             |          | trellis coding  |
|         | lanthanum tellurides                    | (added March 1999)                              |          |   |
|         | . lead tellurides                       | USE X Ray Astrophysics Facility                 | channel  |   |
|         | mercury tellurides                      |   | GS       | airfoils  |
|         | mercury cadmium tellurides              | Chandrasekhar equation                          |          | . wings   |
|         | tin tellurides                          | GS analysis (mathematics)                       |          | channel wings   |
|         | zinc tellurides                         | . real variables                                |          | planforms   |
| RT ∝    | Group 6A compounds                      | differential equations                          |          | . wing planforms  |
|         |   | Chandrasekhar equation                          | RT       | channel wings   |
| chalk   |   | RT electromagnetic absorption                   | KI       | aerodynamic configurations aircraft design                |
| GS      | calcium compounds                       | ∞ equations                                     |          | aircraft parts  |
| 00      | . calcium carbonates                    |   |          | aircraft structures                                       |
|         | chalk                                   | change detection                                |          | anoran structures   |
|         | carbon compounds                        | DEF A process of examining imagery to           | ∞ channe | ls  |
|         | . carbonates                            | detect changes on a planetary surface or astro- | SN       | (USE OF A MORE SPECIFIC TERM IS                           |
|         | calcium carbonates                      | nomical body.<br>GS detection                   |          | RECOMMENDEDCONSULT THE TERMS                              |
|         | chalk                                   | GS detection . change detection                 | RT       | LISTED BELOW)   |
| RT      | gypsum                                  | RT aerial photography                           | IXI      | channels (data transmission) computer storage devices     |
|         | 571                                     | aerial reconnaissance                           |          | dredged materials   |
| Challen | ger (Orbiter)                           | Earth Resources Program                         |          | ducts   |
| UF      | Space Shuttle Orbiter 099               | image classification                            |          | frequencies   |
| GS      | manned spacecraft                       | image classification                            |          | media   |
|         | . space shuttles                        | imagery   |          | parallel plates   |
|         | Space Shuttle orbiters                  | land use  |          | structural members  |
|         | Challenger (Orbiter)                    | multispectral band scanners                     |          | telecommunication   |
|         | reentry vehicles                        | multispectral photography                       |          | throats   |
|         | . recoverable spacecraft                | pattern recognition                             |          | 2310  |
|         | reusable spacecraft                     | photointerpretation                             | channel  | s (data transmission)                                     |
|         | space shuttles                          | radar imagery                                   | UF       | data busses   |
|         | Space Shuttle orbiters                  | remote sensing                                  | RT       | asynchronous transfer mode                                |
|         | Challenger (Orbiter)                    | scene analysis                                  |          | channels  |
| RT      | Endeavour (orbiter)                     | side-looking radar                              |          | data  |
|         | ·                                       |   |          |   |

#### charge transfer devices

data links resolution hole distribution (electronics) data processing ion distribution scene analysis data transmission mass distribution ∞ sensors protocol (computers) symbols neutral atoms polarization (charge separation) Rayleigh fading visibility single channel per carrier transmission characteristic equations charge efficiency USE eigenvalues The efficiency of electric cell recharg-DFF channeltrons eigenvectors ing. USE channel multipliers GS efficiency characteristic functions . charge efficiency battery chargers USE eigenvalues (added June 1989) eigenvectors ∞ charging attractors (mathematics) electric batteries characteristic method branching (mathematics) primary batteries USE method of characteristics mathematical models recharging nonlinear systems storage batteries ∞ characteristics period doubling (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Specifically, distinguishing qualities, stochastic processes SN charge exchange strange attractors (LIMITED TO COLLISIONAL TRANSFER OF AN ELECTRON FROM A NEUTRAL ATOM OR MOLECULE TO AN ION-EXCLUDES SEMICONDUCTOR AND PHOTOCHEMICAL CHARGE TRANSFER)
The collisional transfer of an electron chaotic cloud patterns properties, features or capabilities of an entity. USE clouds (meteorology) aerodynamic characteristics capacitance-voltage characteristics dynamic characteristics chaparral from a neutral atom or molecule to an ion. plants (botany) flight characteristics GS exchanging . brush (botany) flow characteristics . charge exchange chaparral method of characteristics . resonance charge exchange botany nanostructure (characteristics) electron transfer Earth resources polarization characteristics ion atom interactions trees (plants) Segre characteristic ion charge spray characteristics ion production rates Chaparral missile static aerodynamic characteristics plasma-particle interactions missiles volt-ampere characteristics recoil ions . surface to air missiles . . Chaparral missile characterization charge flow devices space weapons descriptions Metal oxide semiconductor (MOS) deexamination Chaplygin equation vices used for fire detectors and humidity senrepresentations flow equations sors. Used for CFD. Chaplygin equation UF CFD characters GS electronic equipment RT ∞ equations USE symbols hodographs . solid state devices . . semiconductor devices vector spaces charcoal . . . transistors charcoal GS Chapman shear layer . . . . field effect transistors activated carbon USE shear layers ... charge flow devices adsorbents RT integrated circuits Chapman-Enskog theory carbon ∞ sensors Enskog-Chapman theory kinetic theory coke fuels GS charge injection devices . transport theory UĒ ČID charge carriers . Chapman-Enskog theory GS electronic equipment Boltzmann transport equation charge carriers . solid state devices Burnett equations free electrons . . semiconductor devices holes (electron deficiencies) distribution functions ... charge transfer devices majority carriers flow distribution ... charge injection devices monatomic gases minority carriers charge coupled devices carrier injection rarefied gas dynamics electro-optics carrier lifetime temperature gradients imaging techniques ∞ carriers ∞ theories semiconductors (materials) electron mobility thermal diffusion star trackers hole mobility Chapman-Ferraro problem atmospheric models charge coupled devices charge separation DEF Semiconductor devices arrayed so USE polarization (charge separation) Earth magnetosphere interplanetary magnetic fields that the electric charge at the output of one magnetopause ∞ problems provides the input stimulus to the next. Use for charge transfer (EXCLUDES COLLISIONAL CHARGE EXCHANGE) carrier injection CCD. SŇ CCD UF solar wind electronic equipment GS charged particles Chapman-Jouget flame . solid state devices electron transfer chemical equilibrium . . semiconductor devices ion exchanging detonation . . . charge transfer devices ionic reactions flame propagation ... charge coupled devices mass transfer bucket brigade devices photochemical reactions character recognition CCD cameras polarization (charge separation) recognition CCD star tracker . pattern recognition transferring charge injection devices focal plane devices ITO (semiconductors) . character recognition artificial intelligence charge transfer devices contrast CTD

charge distribution

RT

GS distribution (property)

. charge distribution

. charge distribution

electrical properties

current distribution

electron distribution

electrostatic charge

force distribution

chaos

ĞS

ÚF

RT

detectors

legibility

graphology

handwriting

perception

readers reading

optical scanners

optical data processing

#### 151

GS

electronic equipment

. solid state devices

. . semiconductor devices

. . . . charge injection devices
RT ITO (semiconductors)

... charge transfer devices

. . . bucket brigade devices

. . . . charge coupled devices

organic charge transfer salts

tunable filters

RT antineutrinos planetary orbits antiparticles Pluto (planet) solar system bosons charged particles charge transfer Titan (FOR IONIC PARTICLES SEE IONS) corpuscular radiation particles Coulomb collisions Charpy impact test . charged particles Coulomb potential GS impact tests . . antiprotons cyclotron frequency Charpy impact test . . energetic particles cyclotron radiation notch tests . . . electrons cyclotron resonance Charpy impact test conduction electrons deuteron irradiation brittleness free electrons drop tests electron-positron pairs . . . high energy electrons hardness elementary particles . . . . relativistic electron beams ∞ materials tests eta-mesons hot electrons gyrofrequency notch sensitivity . . N electrons Helios Project . negatrons hyperons charring . . photoelectrons ablation ion charge RT . . pi-electrons carbonization kaons . . . . polarons combustion leptons . solar electrons decomposition Lorentz force . . nuclei (nuclear physics) fire damage meson-nucleon interactions alpha particles oxidation mesons . . deuterons thermal absorption muon spin rotation even-even nuclei muons heavy nuclei charts neutral sheets charts hypernuclei neutrons . . . odd-even nuclei . flow charts nonadiabatic theory odd-odd nuclei . graphs (charts) nuclei . . bond graphs . . tritons nucleon-nucleon interactions . . . plasmas (physics) Gompertz curves nucleons Mollier diagram argon plasma omega-mesons beta particles . . Patterson map particle charging boundary layer plasmas . meteorological charts particle precipitation cold plasmas nautical charts particle trajectories . . . . collisional plasmas block diagrams . . . . strongly coupled plasmas diagrams Reissner-Nordstrom solution collisionless plasmas display devices rho-mesons . . . . cosmic plasma drawings sigma-mesons cylindrical plasmas graphic arts single event upsets dense plasmas maps trapped particles . plasma focus navigation aids . . . . . strongly coupled plasmas nomographs ∞ charging electron plasma ∞ plots (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN electron-positron plasmas statistical analysis elliptical plasmas statistical tests RT battery chargers helium plasma visual aids charge efficiency high temperature plasmas electric charge chassignites . . . . hydrogen plasma electrostatic charge (added August 1991) . deuterium plasma explosive devices Achondritic stony meteorites comlaser plasmas . . metallic plasmas explosives posed almost entirely (958) of olivine, with acfilling cessory amounts of chromite, and lacking . . . . . cesium plasma . uranium plasmas injection nickel-iron. It resembles terrestrial dunite . . . microplasmas magnetic charge density GS celestial bodies SCATHA satellite . meteorites . nitrogen plasma . . stony meteorites . . . . nonequilibrium plasmas . . . achondrites charm (particle physics) nonuniform plasmas . . . oxygen plasma
. . . rarefied plasmas
. . . relativistic plasmas DEF A quantum number which has been . chassignites proposed to account for an apparent lack of RT nakhlites symmetry in the behavior of hadrons relative to shergottites that of leptons, to explain why certain reactions SNC meteorites rotating plasmas of elementary particles do not occur, and to semiconductor plasmas account for the longevity of the J particle. chassis space plasmas hadrons GS frames RT . solar wind . chassis leptons stellar winds particle interactions automobiles dusty plasmas particle theory carriages spherical plasmas ∞ headers . thermal plasmas ∞ physics struts quantum theory . . . . toroidal plasmas theoretical physics supports . . ionized gases undercarriages . . . Lorentz gas . . magnetically trapped particles Charon Chebyshev approximation ... radiation belts DEF Natural satellite of the planet Pluto, GS analysis (mathematics) artificial radiation belts discovered and named by Dr. James W. Christy . numerical analysis .... inner radiation belt GS celestial bodies . . approximation . . . . outer radiation belt . natural satellites Chebyshev approximation . . . . proton belts . . Pluto satellites series (mathematics) . . partons . Charon statistical analysis . . plasma clouds . trans-Neptunian objects . magnetic clouds . Charon checkout Callisto . . plasma jets (SEQUENCE OF TESTS TO DETERMINE FUNCTIONAL READINESS OF EQUIPMENT)
A sequence of actions taken to test or SN . radio jets (astronomy) Deimos Earth-Moon system . . plasma layers . . plasma sheaths Europa . . plasma slabs Galilean satellites examine a thing as to its readiness for incorporation into a new phase of use, or for the performance of its intended function. The se-. . positrons Ganvmede

lapetus

New Horizons mission

quence of steps taken to familiarize a person

with the operation of an airplane or other piece

. . protons

... recoil protons

... solar protons

|          | ment. Used for debugging.                  | ۰      | · measurement                             |         | barium ion clouds  |
|----------|--|--------|---|---------|--|
| UF       | debugging                                  |        | metallicity                               | RT      | chemical release modules                                     |
| RT       | aircraft maintenance                       |        | methylene blue                            |         | CRRES (satellite)  |
|          | CEFOAM checkout equipment                  |        | moisture meters                           |         | particles  |
|          | certification                              |        | mutagens                                  |         | plasma clouds  |
|          | cold flow tests<br>countdown               |        | nephanalysis optical measurement          | chomic  | al competibility   |
|          | file maintenance (computers)               |        | particle tracks                           |         | al compatibility<br>ed September 1995)                       |
|          | inspection                                 |        | particulate sampling                      | GS      | compatibility  |
|          | maintenance                                |        | photometry                                | 00      | . chemical compatibility                                     |
|          | performance tests                          |        | physical chemistry                        | RT      | affinity   |
|          | prefiring tests                            |        | polarimeters                              |         | liquid rocket propellants                                    |
|          | program verification (computers)           |        | polarography                              |         | metal matrix composites                                      |
|          | self tests                                 |        | psychrometers                             |         | propellant tests   |
|          | space vehicle checkout program             |        | radiochemistry                            |         | stability  |
|          | spacecraft maintenance                     |        | reagents                                  |         |  |
|          | test equipment                             |        | sampling                                  |         | al composition   |
| ∞        | tests                                      |        | spectral signatures                       | GS      | composition (property)                                       |
| checkou  | t equipment                                |        | spectrometers<br>spectrophotometers       |         | . chemical composition                                       |
|          | test equipment                             |        | spectroscopy                              |         | carbon dioxide concentration stellar composition             |
|          | 4.4  | ۰      | • tests                                   | RT      | alkalinity   |
|          | compounds                                  |        | thermogravimetry                          | 101     | atmospheric composition                                      |
| USE      | chelates                                   |        | titrimeters                               |         | atom concentration   |
|          |  |        | x ray analysis                            |         | body composition (biology)                                   |
| chelates |  |        |   |         | distribution (property)                                      |
| UF       | chelate compounds                          |        | al attack                                 |         | gas composition  |
|          | chelation                                  | GS     | chemical attack                           |         | ionospheric composition                                      |
| ~        | chemical compounds                         |        | . intergranular corrosion                 |         | ligands  |
|          | organometallic compounds                   | DT     | . transgranular corrosion                 |         | metallic stars   |
| chelatio | n  | RI ∘   | • attack                                  |         | metallicity  |
|          | chelates                                   |        | corrosion                                 |         | planetary structure  |
|          | chemical reactions                         |        | corrosion prevention corrosion resistance |         | spectral signatures  |
|          |  |        | corrosion tests                           |         |  |
| chemica  | al analysis                                |        | degradation                               |         | al compounds   |
| GS       | chemical tests                             |        | dissolving                                | SN      | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|          | . chemical analysis                        |        | impregnating                              |         | LISTED BELOW)  |
|          | chromatography                             |        | oxidation                                 | DEF     | Distinct substances formed by a union                        |
|          | gas chromatography                         |        | passivity                                 |         | r more ingredients in definite proportions                   |
|          | gel chromatography                         |        | pitting                                   | by weig |  |
|          | liquid chromatography                      |        | rusting                                   | RT      | acetyl compounds   |
|          | paper chromatography                       |        | scale (corrosion)                         |         | actinide series compounds                                    |
|          | thin layer chromatography                  |        |   |         | adducts  |
|          | electrophotometry                          |        | al auxiliary power units                  |         | alkali metal compounds                                       |
|          | gas analysis ozonometry                    | GS     | auxiliary power sources                   | ~       | alkaline earth compounds alkyl compounds                     |
|          | Van Slyke method                           | DT     | . chemical auxiliary power units          |         | allyl compounds  |
|          | . iodimetry                                | RT     | electric batteries                        |         | aluminum compounds   |
|          | Karl Fischer reagent                       |        | fuel cells<br>lead acid batteries         |         | ammines  |
|          | microanalysis                              |        | magnesium cells                           |         | ammonium compounds   |
|          | neutron activation analysis                |        | magnesium cens                            |         | antimony compounds   |
|          | potentiometric analysis                    | chemic | al bonds                                  | ~       | aromatic compounds   |
|          | qualitative analysis                       | UF     | molecular bonds                           |         | arsenic compounds  |
|          | . quantitative analysis                    | GS     | chemical bonds                            |         | azo compounds  |
|          | Kjeldahl method                            |        | . covalent bonds                          |         | barium compounds   |
|          | Van Slyke method                           |        | . hydrogen bonds                          |         | beryllium compounds  |
|          | spectroscopic analysis                     | RT     | active sites (chemistry)                  |         | bismuth compounds  |
|          | urinalysis                                 |        | agglutination                             |         | boron compounds  |
|          | volumetric analysis                        |        | binding energy                            |         | boron-epoxy composites                                       |
| RT       | alkalinity                                 |        | bonding                                   |         | bromine compounds  |
|          | analytical chemistry                       |        | coupled modes                             |         | cadmium compounds  |
| ~        | analyzing                                  |        | covalence                                 |         | calcium compounds  |
|          | assaying<br>Auger spectroscopy             |        | crystal lattices                          |         | carbon compounds carbonyl compounds                          |
|          | chemical detection                         |        | ionic crystals                            |         | cerium compounds   |
| ~        | chemistry                                  |        | ligands<br>molecules                      |         | cesium compounds   |
|          | colorimetry                                |        | monatomic molecules                       |         | cetyl compounds  |
|          | coulometers                                |        | octets                                    |         | chelates   |
|          | density measurement                        |        | polyatomic molecules                      | ~       | chemicals  |
|          | diffractometers                            |        | polywater                                 |         | chlorine compounds   |
|          | electron probes                            |        | saturation (chemistry)                    |         | chromium compounds   |
|          | fuel tests                                 |        | Swan bands                                |         | clathrates   |
|          | gas spectroscopy                           |        | unsaturation (chemistry)                  |         | cobalt compounds   |
|          | gel chromatography                         |        | valence                                   |         | complex compounds  |
|          | hydrometers                                |        |   |         | compound A   |
|          | hygrometers                                |        | al cleaning                               | ~       | compounds  |
|          | identifying                                | GS     | cleaning                                  |         | congeners  |
|          | inductively coupled plasma mass            |        | chemical cleaning                         |         | copper compounds   |
|          | spectrometry                               |        | pickling (metallurgy)                     |         | curium compounds   |
|          | infrared spectrophotometers                | RT     | descaling                                 |         | cyano compounds  |
|          | infrared spectroscopy                      |        | dissolving                                |         | cyclic compounds   |
|          | ion selective electrodes isotopic labeling | ohomi- | al clouds                                 |         | deuterium compounds diallyl compounds                        |
|          | laser spectroscopy                         |        | Artificial clouds of chemical com-        |         | dibasic compounds  |
|          | magnetic resonance spectroscopy            |        | released in the ionosphere for observa-   |         | dibutyl compounds  |
|          | Mars surface samples                       |        | lispersion and other characteristics.     |         | difluoro compounds   |
|          | mass spectrometers                         | GS     | clouds (meteorology)                      |         | diphenyl compounds   |
|          | mass spectroscopy                          |        | . artificial clouds                       |         | dopa   |
| ~        | materials tests                            |        | chemical clouds                           |         | dysprosium compounds   |
|          |  |        |   |         |  |

# chemical defense

| anavy aamnaunda   | proceedymium compounds   | a ma a riai uma  |
|---|--|--|
| epoxy compounds   | praseodymium compounds   | americium  |
| erbium compounds  | propyl compounds   | americium isotopes   |
| ethyl compounds   | protactinium compounds   | americium 241  |
| ethylene compounds  | rare earth compounds   | berkelium  |
| europium compounds  | ∞ rare gas compounds   | californium  |
| fluorine compounds  | refractory materials   | californium isotopes   |
| fluorine organic compounds  | rhenium compounds  | curium   |
| fluoro compounds  | rhodium compounds  | curium isotopes  |
| fullerides  | rubidium compounds   | curium 242   |
| furans  | ruthenium compounds  | curium 244   |
|   | samarium compounds   | einsteinium  |
| gallium compounds   | scandium compounds   | fermium  |
| germanium compounds   | selenium compounds   | lawrencium   |
| ∞ Group 1B compounds  | silicon compounds  |  |
| ∞ Group 2B compounds  | silver compounds   | mendelevium  |
| ∞ Group 3A compounds  | sodium compounds   | neptunium  |
| ∞ Group 3B compounds  | strontium compounds  | neptunium isotopes   |
|   | strontium oxides   | nobelium   |
|   | styphnates   | plutonium  |
|   | sulfur compounds   | plutonium isotopes   |
| ∞ Group 5B compounds  | sulfur hexafluoride  | plutonium 238  |
|   |  | plutonium 239  |
| ∞ Group 6B compounds  | tantalum compounds   | plutonium 240  |
| ∞ Group 7B compounds  | technetium compounds   | plutonium 241  |
| ∞ Group 8 compounds   | tellurium compounds  | plutonium 244  |
| hafnium compounds   | tetrahydrofuran  | sergenium  |
| halocarbons   | thiols   | uranium  |
|   | thorium compounds  |  |
| halogen compounds   | thulium compounds  | uranium isotopes   |
| heterocyclic compounds  | tin compounds  | uranium 232  |
| hexyl compounds   | titanium compounds   | uranium 233  |
| hydrazinium compounds   | triethyl compounds   | uranium 234  |
| hydrazonium compounds   | trimethyl compounds  | uranium 235  |
| hydrogen compounds  | trinitro compounds   | uranium 238  |
| hydroxyl compounds  | •  | . alkali metals  |
| indium aluminum arsenides   | tropyl compounds   | cesium   |
| indium compounds  | tungsten compounds   | cesium isotopes  |
| indium oxides   | uranium compounds  | cesium 133   |
| inorganic compounds   | vanadium compounds   | cesium 134   |
|   | vanadyl compounds  |  |
| intercalation   | Wiswesser notations  | cesium 137   |
| iodine compounds  | xenon compounds  | cesium 144   |
| iridium compounds   | ytterbium compounds  | cesium vapor   |
| iron compounds  | yttrium compounds  | francium   |
| isopropyl compounds   | zinc compounds   | lithium  |
| lanthanum compounds   | zirconium compounds  | liquid lithium   |
|   |  |  |
| lead compounds  | zwitterions  | lithium isotopes   |
| lead compounds lead organic compounds   | zwitterions  | potassium  |
|   |  | •  |
| lead organic compounds<br>lithium compounds   | chemical defense   | potassium liquid potassium   |
| lead organic compounds<br>lithium compounds<br>lutetium compounds   | chemical defense DEF All actions and counteractions de-  | potassium liquid potassium potassium isotopes  |
| lead organic compounds<br>lithium compounds<br>lutetium compounds<br>magnesium compounds  | chemical defense  DEF All actions and counteractions designed for the protection of personnel and ma-  | potassium liquid potassium potassium isotopes potassium 38   |
| lead organic compounds<br>lithium compounds<br>lutetium compounds<br>magnesium compounds<br>manganese compounds   | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  | potassium liquid potassium potassium isotopes potassium 38 potassium 39  |
| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds   | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection   | potassium liquid potassium potassium isotopes potassium 38 potassium 39 potassium 40   |
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| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds ∞ metal compounds methoxy systems   | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection  civil defense  clothing  | potassium liquid potassium potassium isotopes potassium 38 potassium 39 potassium 40 rubidium rubidium isotopes  |
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| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds methoxy systems methyl compounds molecules molybdenum compounds neptunium compounds nickel compounds nickel compounds nitro compounds nitro compounds nitronium compounds nitronium compounds nitronium compounds nitronium compounds nitronium compounds organic aluminum compounds organic germanium compounds organic germanium compounds organic semiconductors organic silicon compounds organic sulfur compounds organometallic compounds oxygen compounds oxygen compounds phosphorus compounds phosphorus compounds platinum compounds platinum compounds plutonium compounds  | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection civil defense clothing drugs first aid injuries masks neurology physiological factors protective clothing safety devices warfare  chemical detection (added April 2004)  DEF Sensing and identification of chemical compounds within a particular environment.  GS detection . explosives detection  RT chemical analysis chemical defense chemical tests  chemical effects  RT biological effects sterilization effects temperature effects  chemical elements  GS chemical elements  GS chemical elements  . actinium . radium  | potassium liquid potassium liquid potassium potassium isotopes potassium 38 potassium 39 potassium 40 rubidium rubidium isotopes rubidium 86 sodium liquid sodium sodium isotopes sodium 22 sodium 24 sodium vapor alkaline earth metals barium isotopes aluminum 26 aluminum 27 barium barium isotopes aluminum 27 barium beryllium beryllium beryllium 10 bismuth bismuth bismuth bismuth bismuth isotopes cadnium cadnium isotopes carbon 12 carbon 13 carbon 14 chromium   |
| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds methoxy systems methyl compounds molecules molybdenum compounds nonatomic molecules neodymium compounds nickel compounds nickel compounds nitro compounds nitro compounds nitrogen compounds nitrose compounds organic aluminum compounds organic germanium compounds organic lithium compounds organic phosphorus compounds organic sulfur compounds organic itinum compounds organic itinum compounds organic phosphorus compounds organic sulfur compounds organic tin compounds organometallic compounds oxygen compounds oxygen compounds phospene phosphonium compounds platinum compounds platinum compounds platinum compounds polonium compounds  | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection civil defense clothing drugs first aid injuries masks neurology physiological factors protective clothing safety devices warfare  chemical detection (added April 2004)  DEF Sensing and identification of chemical compounds within a particular environment.  GS detection  . chemical detection  . explosives detection  RT chemical analysis chemical defense chemical defects  RT biological effects  RT biological effects  chemical effects  RT biological effects  chemical effects  sterilization effects  temperature effects  chemical elements  GS chemical elements  . actinide series  . actinide series  . actinium  . radium  . radium  . radium  . radium isotopes | potassium liquid potassium liquid potassium potassium isotopes potassium 38 potassium 39 potassium 40 rubidium rubidium isotopes rubidium 86 sodium liquid sodium sodium isotopes sodium 22 sodium 24 sodium vapor alkaline earth metals barium isotopes aluminum aluminum 26 aluminum 27 barium barium isotopes aluminum 27 barium barium isotopes aluminum 27 beryllium beryllium beryllium 7 beryllium 9 beryllium 9 beryllium 9 beryllium 10 bismuth bismuth bismuth isotopes cadmium cadmium cadmium isotopes carbon 10 carbon 11 carbon 11 carbon 11 carbon 14 chromium chromium isotopes  |
| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds methoxy systems methyl compounds molecules molybdenum compounds monatomic molecules neodymium compounds nickel compounds nickel compounds nitro compounds nitrogen compounds nitrogen compounds organic aluminum compounds organic phosphorus compounds organic lithium compounds organic semiconductors organic silicon compounds organic silicon compounds organic sulfur compounds organic silicon compounds organic sulfur compounds organic sulfur compounds organic sulfur compounds organic sompounds organic sulfur compounds organic sulfur compounds organic sulfur compounds organic tin compounds organic mompounds organic mompounds organium compounds organium compounds oxynitrides palladium compounds phosphorus compounds phosphorus compounds platinum compounds ploonium compounds polonium compounds polonium compounds polonium compounds polonium compounds   | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection civil defense clothing drugs first aid injuries masks neurology physiological factors protective clothing safety devices warfare  chemical detection (added April 2004) DEF Sensing and identification of chemical compounds within a particular environment. GS detection . chemical detection . explosives detection RT chemical analysis chemical defense chemical defense chemical effects  RT biological effects effects sterilization effects temperature effects  chemical elements GS chemical elements . actinide series . actinium . radium . radium . radium isotopes radium 1226  | potassium liquid potassium potassium isotopes potassium isotopes potassium 38 potassium 39 potassium 40 .rubidium rubidium isotopes rubidium 86 .sodium liquid sodium sodium isotopes sodium 22 sodium 24 sodium vapor .alkaline earth metals .barium isotopes aluminum aluminum 26 aluminum 27 .barium .barium isotopes beryllium 7 .beryllium 7 .beryllium 7 .beryllium 10 .bismuth .bismuth isotopes .cadmium .cadmium .cadmium isotopes .cadmium .cadrium isotopes .carbon .carbon 12 .carbon 13 .carbon 14 .chromium .chromium isotopes .cobalt   |
| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds methoxy systems methyl compounds molecules molybdenum compounds nonatomic molecules neodymium compounds nickel compounds nickel compounds nitro compounds nitroso compounds nitroso compounds organic aluminum compounds organic germanium compounds organic lithium compounds organic lithium compounds organic semiconductors organic silicon compounds organic sulfur compounds organic mompounds organic mompounds organic sulfur compounds organic sulfur compounds organic mompounds organic mompounds organic mompounds organic mompounds organic mompounds oxygen compounds phospene phosphonium compounds platinum compounds platinum compounds ployatomic molecules polynuclear organic compounds  | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection civil defense clothing drugs first aid injuries masks neurology physiological factors protective clothing safety devices warfare  chemical detection (added April 2004) DEF Sensing and identification of chemical compounds within a particular environment. GS detection . chemical detection . explosives detection RT chemical analysis chemical defense chemical effects  RT biological effects sterilization effects sterilization effects temperature effects  Chemical elements GS chemical elements . actinide . radium . radium . radium . radium . radium 226 . thorium  | potassium liquid potassium liquid potassium potassium isotopes potassium 38 potassium 39 potassium 40 rubidium rubidium isotopes rubidium 86 sodium liquid sodium sodium isotopes sodium 22 sodium 24 sodium vapor alkaline earth metals barium isotopes aluminum aluminum 26 aluminum 27 barium barium isotopes beryllium beryllium beryllium 9 beryllium 9 beryllium 10 bismuth bismuth bismuth isotopes calcium calcium isotopes carbon 12 carbon 12 carbon 14 chromium chromium isotopes cobalt cobalt isotopes  |
| lead organic compounds lithium compounds lutetium compounds magnesium compounds manganese compounds mercury compounds methoxy systems methyl compounds molecules molybdenum compounds monatomic molecules neodymium compounds nickel compounds nickel compounds nitro compounds nitrogen compounds nitrogen compounds organic aluminum compounds organic phosphorus compounds organic lithium compounds organic semiconductors organic silicon compounds organic silicon compounds organic sulfur compounds organic silicon compounds organic sulfur compounds organic sulfur compounds organic sulfur compounds organic sompounds organic sulfur compounds organic sulfur compounds organic sulfur compounds organic tin compounds organic mompounds organic mompounds organium compounds organium compounds oxynitrides palladium compounds phosphorus compounds phosphorus compounds platinum compounds ploonium compounds polonium compounds polonium compounds polonium compounds polonium compounds   | chemical defense  DEF All actions and counteractions designed for the protection of personnel and material against offensive chemical agents.  RT chemical detection civil defense clothing drugs first aid injuries masks neurology physiological factors protective clothing safety devices warfare  chemical detection (added April 2004) DEF Sensing and identification of chemical compounds within a particular environment. GS detection . chemical detection . explosives detection RT chemical analysis chemical defense chemical defense chemical effects  RT biological effects effects sterilization effects temperature effects  chemical elements GS chemical elements . actinide series . actinium . radium . radium . radium isotopes radium 1226  | potassium liquid potassium potassium isotopes potassium isotopes potassium 38 potassium 39 potassium 40 .rubidium rubidium isotopes rubidium 86 .sodium liquid sodium sodium isotopes sodium 22 sodium 24 sodium vapor .alkaline earth metals .barium isotopes aluminum aluminum 26 aluminum 27 .barium .barium isotopes beryllium 7 .beryllium 7 .beryllium 7 .beryllium 10 .bismuth .bismuth isotopes .cadmium .cadmium .cadmium isotopes .cadmium .cadrium isotopes .carbon .carbon 12 .carbon 13 .carbon 14 .chromium .chromium isotopes .cobalt   |

# chemical elements

| . copper                             | arsenic isotopes                    | potassium 39               |
|--------------------------------------|-------------------------------------|----------------------------|
| copper isotopes                      | barium isotopes                     | potassium 40               |
| . gallium                            | beryllium isotopes                  | praseodymium isotopes      |
| gallium isotopes                     | beryllium 7                         | promethium isotopes        |
| . gold                               | beryllium 9                         | protactinium isotopes      |
| gold isotopes                        | beryllium 10                        | radioactive isotopes       |
| gold 198                             | bismuth isotopes                    | astatine isotopes          |
| . hafnium                            | boron isotopes                      | beryllium 7                |
| hafnium isotopes                     | boron 10                            | beryllium 7                |
| . hahnium                            | bromine isotopes                    | beryllium 10               |
|                                      | ·                                   | carbon 14                  |
| . halogens astatine                  | cadmium isotopes                    | carbon 14                  |
| bromine                              | calcium isotopes<br>carbon isotopes | cerium 137                 |
| bromine isotopes                     | carbon 12                           | cesium 134                 |
| chlorine                             | carbon 13                           | cesium 137                 |
| fluorine                             | carbon 14                           | cesium 144                 |
| fluorine isotopes                    | cerium isotopes                     | cobalt 58                  |
| liquid fluorine                      | cerium 137                          | cobalt 60                  |
| iodine                               | cerium 144                          | copper isotopes            |
| iodine isotopes                      | cesium isotopes                     | gold 198                   |
| iodine 125                           | cesium 133                          | indium isotopes            |
| iodine 131                           | cesium 134                          | iodine 125                 |
| iodine 132                           | cesium 137                          | iodine 131                 |
| . heavy elements                     | cesium 144                          | iodine 132                 |
| . hydrogen                           | cesium vapor                        | iron 59                    |
| hydrogen isotopes                    | chromium isotopes                   | krypton 85                 |
| deuterium                            | cobalt isotopes                     | niobium 95                 |
| hydrogen 4                           | cobalt 58                           | nitrogen 16                |
| metallic hydrogen                    | cobalt 60                           | phosphorus 32              |
| tritium                              | dysprosium isotopes                 | polonium 208               |
| liquid hydrogen                      | erbium isotopes                     | polonium 209               |
| . indium                             | europium isotopes                   | polonium 210               |
| . iridium                            | fluorine isotopes                   | potassium 38               |
| iridium isotopes                     | gadolinium isotopes                 | potassium 40               |
| . iron                               | gallium isotopes                    | rubidium 86                |
| iron isotopes                        | germanium isotopes                  | sodium 22                  |
| iron 57                              | gold isotopes                       | sodium 24                  |
| iron 58                              | gold 198                            | strontium 85               |
| iron 59                              | hafnium isotopes                    | strontium 88               |
| . lead (metal)                       | helium isotopes                     | strontium 89               |
| . lead isotopes                      | holmium isotopes                    | strontium 90               |
| . light elements                     | hydrogen isotopes                   | transuranium elements      |
| . magnesium                          | deuterium                           | americium                  |
| magnesium isotopes                   | hydrogen 4                          | americium isotopes         |
| . manganese                          | metallic hydrogen<br>tritium        | americium 241<br>berkelium |
| manganese isotopes . mercury (metal) | iodine isotopes                     | californium                |
| mercury (inetal)                     | iodine 125                          | californium isotopes       |
| mercury vapor                        | iodine 131                          | curium                     |
| . metalloids                         | iodine 132                          | curium isotopes            |
| antimony                             | iridium isotopes                    | curium 242                 |
| antimony isotopes                    | iron isotopes                       | curium 244                 |
| . arsenic                            | iron 57                             | einsteinium                |
| arsenic isotopes                     | iron 58                             | fermium                    |
| boron                                | iron 59                             | lawrencium                 |
| boron isotopes                       | krypton isotopes                    | mendelevium                |
| boron 10                             | krypton 85                          | neptunium                  |
| germanium                            | lanthanum isotopes                  | neptunium isotopes         |
| germanium isotopes                   | lead isotopes                       | nobelium                   |
| polonium                             | lithium isotopes                    | plutonium                  |
| polonium isotopes                    | lutetium                            | plutonium isotopes         |
| polonium 208                         | lutetium isotopes                   | plutonium 238              |
| polonium 209                         | magnesium isotopes                  | plutonium 239              |
| polonium 210                         | manganese isotopes                  | plutonium 240              |
| silicon                              | mercury isotopes                    | plutonium 241              |
| amorphous silicon                    | molybdenum isotopes                 | plutonium 244              |
| porous silicon                       | neodymium isotopes                  | sergenium                  |
| silicon isotopes                     | neon isotopes                       | tritium                    |
| tellurium tellurium isotopes         | nickel isotopes<br>niobium isotopes | uranium 232<br>uranium 233 |
|                                      | niobium 95                          |                            |
| . molybdenum                         |                                     | uranium 238                |
| . nickel nickel isotopes             | nitrogen isotopes<br>nitrogen 15    | xenon 133<br>xenon 135     |
| . niobium                            | nitrogen 16                         | zirconium 95               |
| niobium isotopes                     | nobelium isotopes                   | radium isotopes            |
| niobium 95                           | osmium isotopes                     | radium 226                 |
| . nitrogen                           | oxygen isotopes                     | radon isotopes             |
| liquid nitrogen                      | oxygen isotopes                     | rhenium isotopes           |
| nitrogen isotopes                    | oxygen 18                           | rhodium isotopes           |
| nitrogen 15                          | palladium isotopes                  | rubidium isotopes          |
| nitrogen 16                          | phosphorus isotopes                 | rubidium 86                |
| solid nitrogen                       | phosphorus 32                       | ruthenium isotopes         |
| . nuclides                           | platinum isotopes                   | samarium isotopes          |
| isotopes                             | polonium isotopes                   | scandium isotopes          |
| aluminum isotopes                    | polonium 208                        | selenium isotopes          |
| aluminum 26                          | polonium 209                        | silicon isotopes           |
| aluminum 27                          | polonium 210                        | silver isotopes            |
| antimony isotopes                    | potassium isotopes                  | sodium isotopes            |
| argon isotopes                       | potassium 38                        | sodium 22                  |
|                                      |                                     |                            |

. . . . sodium 24 . . helium potential energy . . . strontium isotopes . helium isotopes . . . liquid helium chemical engineering . . . . strontium 85 . . liquid helium 2 RT aerothermochemistry ... strontium 87 ∞ chemistry . . krypton ... strontium 89 ... krypton isotopes combustion chemistry . . . . strontium 90 . . . . krypton 85 cracking (chemical engineering) . . . sulfur isotopes . . neon diffusion . . . tantalum isotopes ... liquid neon ∞ engineering . . . technetium isotopes ... neon isotopes fluid flow . . . tellurium furnaces . . radon . . . . tellurium isotopes heat transfer . . . radon isotopes . . . terbium isotopes materials handling . . xenon . . . thallium isotopes ∞ operations ... xenon isotopes thorium isotopes . . . . xenon 129 thermochemistry . . . thulium isotopes . . . . xenon 133 tin isotopes chemical equilibrium . . . xenon 135 . . . titanium isotopes . rhenium Chapman-Jouget flame . . . tungsten isotopes . . rhenium isotopes chemical shift . . . uranium isotopes chemical equilibrium . rhodium . . uranium 232 . . rhodium isotopes . acid base equilibrium . . . . uranium 233 . ruthenium . . ruthenium isotopes association reactions . . . . uranium 234 buffers (chemistry) . . . . uranium 235 . rutherfordium dissociation . uranium 238 . selenium ∞ equilibrium . . . vanadium isotopes heat of dissociation . silver . . . xenon isotopes . . . . xenon 129 phase rule . . silver isotopes reaction kinetics . strontium . . . . xenon 133 thermodynamic equilibrium . . strontium isotopes . . . xenon 135 . . . strontium 85 . . . ytterbium isotopes chemical evolution strontium 87 DEF The theory of the creation or production of living matter from nonliving matter. . yttrium isotopes ... strontium 89 zinc isotopes . . . strontium 90 evolution (development)
. chemical evolution . zirconium isotopes . sulfur . . . zirconium 95 . . sulfur isotopes abiogenesis biological evolution ∞ evolution . osmium . tantalum . . osmium isotopes . . tantalum isotopes . oxygen technetium . . liquid oxygen exobiology . thallium . . oxygen isotopes life sciences organic compounds . . thallium isotopes . . . oxygen 17 . . oxygen 18 protein synthesis . . tin isotopes . palladium protobiology . titanium . phosphorus self assembly . . titanium isotopes . phosphorus isotopes tungsten . phosphorus 32 chemical explosions . vanadium platinum explosions GS . vanadium isotopes . platinum isotopes chemical explosions . zinc . protactinium . . gas explosions . . zinc isotopes .. gas explosions .. propellant explosions aerial explosions . . protactinium isotopes . zirconium . rare earth elements . . zirconium isotopes . . cerium combustion detonable gas mixtures . . . zirconium 95 . . . cerium isotopes . bohrium . . . . cerium 137 detonation . dubnium . . . . cerium 144 explosives hassium . . dysprosium flammable gases . meitnerium . . . dysprosium isotopes seaborgium siderophile elements turbulent combustion . . erbium underground explosions . erbium isotopes underwater explosions RT atoms europium
. europium isotopes
gadolinium
. gadolinium isotopes ∞ chemicals chemical extinguishers ∞ elements USE fire extinguishers ferrous metals ions holmium chemical fractionation isotopic enrichment . holmium isotopes GS fractionation light ions lanthanum chemical fractionation metals lanthanum isotopes distillation nonferrous metals lutetium refining nuclear isobars . lutetium isotopes ∞ separation plasmas (physics) . . neodymium trace contaminants neodymium isotopes chemical fuels . . praseodymium DEF Fuels that depend upon an oxidizer for . praseodymium isotopes chemical energy combustion or for development of thrust, such promethium DEF Energy produced or absorbed in the as liquid or solid rocket fuel or internal combus-. promethium isotopes process of a chemical reaction. In any such a tion engine fuel; distinguished from nuclear fuel. samarium reaction, energy losses or gains usually involve GS fuels . samarium isotopes only the outermost electrons of the atoms or . chemical fuels ions of the system undergoing change; here a . . endothermic fuels . . scandium . scandium isotopes chemical bond of some type is established or . . high energy fuels broken without disrupting the original atomic or . . hydrocarbon fuels . . terbium . terbium isotopes ionic identities of the constituents. diesel fuels GS chemical energy . . . fossil fuels thulium . thulium isotopes . energy of formation . . . . coal RT ∞ energy free energy . ytterbium . . . . . anthracite . ytterbium isotopes lianite . . yttrium internal energy . . . solvent refined coal . . . yttrium isotopes . rare gases kinetic energy . . . . crude oil . . . natural gas ∞ level molecular energy levels . liquefied natural gas . . argon ... argon isotopes ∞ nuclear energy . . . . peat

|         | shale oil                     | RT continuous wave lasers            | . nitration  |
|---------|-------------------------------|--------------------------------------|--|
|         | gasoline                      | ahamiaal properties                  | . nitriding  |
|         | jet engine fuels              | chemical properties                  | . nitrogenation                                    |
|         | JP-4 jet fuel                 | GS chemical properties               | . nitrolysis                                       |
|         | JP-5 jet fuel                 | . acidity                            | . oxidation  |
|         | JP-6 jet fuel                 | . salinity                           | electrochemical oxidation                          |
|         | JP-7 jet fuel                 | . thermochemical properties          | photooxidation                                     |
|         | JP-8 jet fuel                 | heat of combustion                   | rusting  |
|         | synthane                      | heat of dissociation                 | . oxidation-reduction reactions                    |
|         | liquid fuels                  | heat of formation                    | . oxygenation                                      |
|         | antimisting fuels             | heat of solution                     | . phosphorylation                                  |
|         | diesel fuels                  | latent heat                          | . photochemical reactions                          |
|         | gasoline                      | heat of fusion                       | photochromism                                      |
|         | hydrogen fuels                | heat of vaporization                 | photodecomposition                                 |
|         | jet engine fuels              | RT adsorptivity<br>∞ high resistance | photolysis   |
|         | JP-4 jet fuel                 | hydrophobicity                       | photooxidation                                     |
|         | JP-5 jet fuel                 | hygroscopicity                       | photosynthesis                                     |
|         | JP-6 jet fuel                 | ∞ low resistance                     | radiolysis   |
|         | JP-7 jet fuel                 | moisture content                     | . pyrohydrolysis                                   |
|         | JP-8 jet fuel                 | passivity                            | . reduction (chemistry)                            |
|         | fuel oils                     | ∞ physical properties                | deoxidizing  |
|         | kerosene                      | propellant properties                | hydrogenation                                      |
|         | metal fuels                   |                                      | . Sabatier reaction                                |
|         | synthetic fuels               | ∞ properties<br>∞ resistance         | . sulfation  |
|         | gasohol (fuel)                |                                      | . sulfidation                                      |
| οт      | synthane                      | thermodynamic properties toxicity    | . thermal decomposition                            |
| RT      | clean fuels                   |                                      | pyrolysis  |
|         | explosives                    | toxicity and safety hazard           | . cycloaddition                                    |
|         | fuel production               | chemical propulsion                  | . thermal dissociation                             |
|         | gelled propellants            | UF chemonuclear propulsion           | . titration  |
|         | gelled rocket propellants     | GS propulsion                        | Diels-Alder reactions                              |
|         | hybrid propellants            | . chemical propulsion                | . chain reactions (chemistry)                      |
|         | monopropellants               | hybrid propulsion                    | RT biosynthesis                                    |
|         | plastic propellants           | RT jet propulsion                    | chelation  |
|         | propellants                   | marine propulsion                    | combustion chemistry                               |
|         | pyrotechnics                  | spacecraft propulsion                | corrosion  |
|         | solid propellants             | underwater propulsion                | gas-metal interactions                             |
|         |                               | underwater propulsion                | hydration  |
| chemic  | al indicators                 | chemical reaction control            | interstellar chemistry                             |
| RT      | biomarkers                    | RT agitation                         | ∞ operations                                       |
| 0       | o indicators                  | ∞ control                            | particle interactions                              |
|         | methylene blue                | ∞ reaction control                   | plasma jet synthesis                               |
|         | phloroglucinol                | temperature control                  | polymerization                                     |
|         |                               | tomporatare control                  | radiochemical separation                           |
| chemica | al kinetics                   | chemical reactions                   | reacting flow                                      |
| USE     | reaction kinetics             | UF flame interaction                 | ∞ reaction   |
|         |                               | GS chemical reactions                | reaction bonding                                   |
| hemic   | al lasers                     | . acylation                          | reaction intermediates                             |
| GS      | stimulated emission devices   | acetylation                          | reaction kinetics                                  |
| 00      | . lasers                      | . alkylation                         | reactivity   |
|         | chemical lasers               | . ammonolysis                        | reagents   |
|         | HCL lasers                    | . association reactions              | sodalite   |
|         | HCL argon lasers              | . atomic recombination               | solvation  |
|         | chemical oxygen-iodine lasers | oxygen recombination                 | stoichiometry                                      |
| RT      | argon lasers                  | . carbonization                      | surface reactions                                  |
|         | carbon dioxide lasers         | . carboxylation                      | ∞ synthesis  |
|         | carbon lasers                 | . copolymerization                   | synthesis (chemistry)                              |
|         | carbon monoxide lasers        | . cracking (chemical engineering)    | synthetic fuels                                    |
|         | chain reactions (chemistry)   | hydrocracking                        | thermochemistry                                    |
|         | gas lasers                    | pyrolysis                            | chemical reactors                                  |
|         | HCN lasers                    | . decarbonation                      | RT autoclaves                                      |
|         | HF lasers                     | . decarboxylation                    | beds (process engineering)                         |
|         | infrared lasers               | . defluorination                     | burners  |
|         | liquid lasers                 | . dehydrogenation                    | columns (process engineering)                      |
|         | organic lasers                | . deionization                       | contactors   |
|         | Q switched lasers             | . denitrogenation                    | fluidized bed processors                           |
|         | TEA lasers                    | . depolymerization                   | furnaces   |
|         | tube lasers                   | desulfurizing                        | gas generators                                     |
|         |                               | . endothermic reactions              | ∞ gas reactors                                     |
| homic   | al machining                  | . epoxidation                        | reactor design                                     |
| UF      | chemical milling              | exothermic reactions                 | reactor materials                                  |
| GS      | machining                     | . fermentation                       | reactor safety                                     |
| 00      | . chemical machining          | . Friedel-Craft reaction             | ∞ reactors   |
|         | electrochemical machining     | . glycolysis                         | synthesizers                                       |
| RT      | milling (machining)           | . Grignard reactions                 | tanks (containers)                                 |
| 111     | manig (macining)              | . halogenation                       | water cooled reactors                              |
|         |                               | bromination                          | mater dedical reduction                            |
|         | al milling                    | chlorination                         | chemical relaxation                                |
| USE     | chemical machining            | fluorination                         | USE molecular relaxation                           |
|         |                               | . hydroboration                      |  |
| chemic  | al oxygen-iodine lasers       | . hydrogenolysis                     | chemical release modules                           |
|         | ed August 1997)               | hydrocracking                        | DEF Shuttle launched, free-flying space-           |
|         | COIĽ (lasers)                 | . hydrolysis                         | craft containing canisters for injecting chemicals |
| GS      | stimulated emission devices   | . ion recombination                  | into the upper atmosphere and the measure-         |
|         | . lasers                      | . metal-water reactions              | ment of the reactions.                             |
|         | chemical lasers               | . metathesis                         | GS modules   |
|         | chemical oxygen-iodine lasers | . methanation                        | . chemical release modules                         |
|         | iodine lasers                 | . methylation                        | RT chemical clouds                                 |
|         | chemical oxygen-iodine lasers | . Michael reaction                   | CRRES (satellite)                                  |
|         | , ,                           |                                      | , ,  |

|                | dispersing  |          | luminescence  |             | ake place. It is generally considered to the stratosphere (or the top thereof) and |
|----------------|---|----------|---|-------------|--|
| chemica<br>USE | al shift<br>chemical equilibrium                                  | RT       | airglow<br>phosphorescence  | the mes     | sosphere, and sometimes the lower part hermosphere.                                |
|                | 1.4.20.00   |          |   | GS          | Earth atmosphere   |
|                | al sterilization<br>cleaning                                      |          | orption   | DT          | chemosphere  |
| 00             | . sterilization   |          | The binding of a liquid or gas on the or in the interior of a solid by chemical | RT          | biosphere  |
|                | chemical sterilization  |          | or forces.  |             | Earth ionosphere heterosphere  |
| RT             | antiseptics   |          | sorption  |             | homosphere   |
|                | bactericides  |          | . adsorption  |             | lower atmosphere   |
|                | ethylene oxide  |          | chemisorption   |             | mesosphere   |
|                | purification sewage treatment                                     | RT       | adatoms   |             | middle atmosphere  |
|                | spacecraft sterilization  |          | adsorptivity atomic clusters  |             | ozonosphere<br>plasmasphere  |
|                |   |          | gas-metal interactions  |             | stratosphere   |
| chemic         |   |          | hydrogen embrittlement  |             | thermosphere   |
| GS             | chemical tests  |          | masking   |             | troposphere  |
|                | . chemical analysis chromatography                                |          | metal clusters  |             | upper atmosphere   |
|                | gas chromatography  |          | molecular clusters  | chemot      | therapeutic agents   |
|                | gel chromatography  | ∞ chemis | stry  |             | led April 2004)  |
|                | liquid chromatography   | SN       | (USE OF A MORE SPECIFIC TERM IS   |             | drugs  |
|                | paper chromatography  |          | RECOMMENDEDCONSULT THE TERMS  |             | 4  |
|                | thin layer chromatography electrophotometry                       | DEF      | LISTED BELOW) The science that studies the composi-                             | cnemo<br>UF | therapy<br>drug therapy  |
|                | gas analysis  |          | tructure, properties, interactions, and   | GS          | therapy  |
|                | ozonometry  | transfor | mations of elemental matter and com-  | 00          | . chemotherapy   |
|                | Van Slyke method  | pounds   |   | RT          | antiseptics  |
|                | iodimetry   | RT       | aerothermochemistry<br>aerothermodynamics                                       |             | ∞ chemistry  |
|                | Karl Fischer reagent microanalysis                                |          | analytical chemistry  |             | drugs  |
|                | neutron activation analysis                                       |          | atmospheric chemistry   | Chena       | River Basin (AK)   |
|                | potentiometric analysis   |          | biochemistry  | GS          | landforms  |
|                | qualitative analysis  |          | biogeochemistry   |             | . structural basins  |
|                | quantitative analysis   |          | chemical analysis   |             | river basins   |
|                | Kjeldahl method<br>Van Slyke method                               |          | chemical engineering chemotherapy   | RT          | Chena River Basin (AK)<br>Alaska   |
|                | spectroscopic analysis  |          | combustion chemistry  | KI          | Alaska   |
|                | urinalysis  |          | computational chemistry   | Chesa       | peake Bay (US)   |
|                | volumetric analysis   |          | cosmochemistry  | GS          | bays (topographic features)  |
|                | . salt spray tests  |          | cryochemistry   | DT          | . Chesapeake Bay (US)  |
| RT             | chemical detection  |          | electrochemistry<br>environmental chemistry                                     | RT          | estuaries<br>Maryland  |
|                | corrosion resistance<br>gas spectroscopy                          |          | geochemistry  |             | river basins   |
|                | high temperature tests  |          | hydroxyl radicals   |             | sounds (topographic features)  |
|                | inspection  |          | inorganic chemistry   |             | Virginia   |
|                | low temperature tests   |          | interstellar chemistry  |             |  |
|                | nondestructive tests  |          | marine chemistry  | chest<br>GS | anatomy  |
|                | quality control   |          | nuclear chemistry organic chemistry   | 03          | anatomy . chest  |
|                | sampling<br>staining  |          | photoelectrochemistry   |             | breast   |
| 0              | • tests   |          | physical chemistry  |             | mammary glands   |
|                |   |          | ∞ physical sciences   | RT          | thorax   |
|                | al vapor deposition   |          | Physics and Chemistry Experiment in   |             | torso  |
| USE            | vapor deposition  |          | Space physiochemistry   | chewin      | a  |
| chemic         | al vapor infiltration   |          | plasma chemistry  |             | mastication  |
|                | ed December 1992)   |          | polymer chemistry   |             |  |
| UF             | CVI (fabrication)   |          | precipitation (chemistry)   | chiasm      | s crossings  |
| GS             | infiltration  |          | propellant chemistry  | 03          | . chiasms  |
| RT             | . chemical vapor infiltration carbon fibers                       |          | quantum chemistry radiation chemistry   |             |  |
| IXI            | ceramic fibers  |          | radiochemistry  | chicke      |  |
|                | ceramic matrix composites   |          | reduction (chemistry)   | GS          | animals  |
|                | composite materials   |          | saturation (chemistry)  |             | . vertebrates birds  |
|                | densification   |          | stereochemistry   |             | chickens   |
|                | fiber composites  |          | stoichiometry   |             |  |
| chemic         | al warfare  |          | synthesis (chemistry) thermochemistry   | child d     |  |
| GS             | warfare   |          | unsaturation (chemistry)  | RT          | learning   |
|                | . chemical warfare  |          | Wiswesser notations   |             | learning theory training devices   |
| RT             | biochemistry  |          |   |             | training devices   |
|                | biological weapons  |          | nuclear propulsion  |             | angmuir law  |
|                | physiological factors   | USE      | chemical propulsion<br>nuclear propulsion                                       | GS          | laws   |
| chemica        | ally reacting flow  |          | nacioni propulsion  | RT          | . Child-Langmuir law perveance   |
| USE            | reacting flow   | chemo    | receptors   | KI          | space charge   |
|                | ala.  | GS       | anatomy   |             | thermionic diodes  |
| ∞ chemic       |   |          | . sense organs  |             |  |
| SN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS      |          | chemoreceptors  | childre     |  |
| D.T.           | LISTED BELOW)   |          | receptors (physiology) . chemoreceptors   | RT          | adults   |
| KI °           | <ul> <li>chemical compounds</li> <li>chemical elements</li> </ul> | RT       | carotid sinus body  |             | females<br>human beings  |
|                | onemical elements   | 13.1     | olfactory perception  |             | males  |
| chemil         | uminescence   |          | taste   |             | parents  |
| DEF            | Any luminescence produced by chemi-                               | _        |   |             | progeny  |
| cal actio      |   | chemo    |   | Chil-       |  |
| GS             | emission . light emission   |          | The vaguely defined region of the up-<br>nosphere in which photochemical reac-  | Chile<br>GS | nations  |
|                | . ngm cimosion  | per alli | iosphore in willon photochemical read-  | 63          | Handlo   |

| DT       | . Unite                              |          | ragmentation                            |              | intestation  |
|----------|--------------------------------------|----------|---|--------------|--|
| RT       | European Southern Observatory        |          | pitting                                 |              |  |
|          | South America                        | c        | separation                              | chirp        | A = -11  |
| abillina |                                      |          | spalling                                |              | An all encompassing term for the vari                            |
| chilling |                                      |          | splitting                               |              | hniques of pulse expansion-pulse com                             |
| USE      | cooling                              |          | wear                                    |              | n applied to pulse radar; a technique to                         |
|          |                                      |          |   | expand       | narrow pulses to wide pulses for trans                           |
| chimes   |                                      | ohino    |   | mission      | , and compress wide received pulses to                           |
| USE      | auditory signals                     | chips    | 1: (1 ( : )                             | the original | inal narrow pulse width and wave shape                           |
|          |                                      | RT       | chips (electronics)                     |              | improvement in signal-to-noise ratio                             |
| chimne   | vs                                   |          | fragments                               |              | degradation to range resolution and                              |
| RT       | <del>-</del>                         |          | scrap                                   |              |  |
|          | exhaust systems                      |          |   |              | liscrimination.  |
|          | flues                                | ahina (  | alastranias)                            | GS           | electromagnetic interference                                     |
|          |                                      |          | electronics)                            |              | . radio frequency interference                                   |
|          | furnaces                             |          | Integrated microcircuits mounted on     |              | chirp  |
|          | plumes                               |          | es and performing significant numbers   |              | chirp signals  |
|          | stacks                               | of funct |   |              |  |
|          | vents                                | GS       | chips (electronics)                     | chirp s      | ignals   |
|          | waste energy utilization             |          | . chips (memory devices)                |              | electromagnetic interference                                     |
|          |                                      |          | . systems-on-a-chip                     |              | . radio frequency interference                                   |
| chimpa   | nzees                                | RT       |   |              | chirp  |
| GS       | animals                              |          | central processing units                |              | chirp signals  |
|          | . vertebrates                        |          | chips                                   | DT           |  |
|          | mammals                              |          |   |              | electromagnetic noise  |
|          | primates                             |          | computer design                         | 0            | ∞ signals  |
|          |                                      |          | integrated circuits                     |              |  |
|          | apes                                 |          | large scale integration                 | chitin       |  |
|          | chimpanzees                          |          | microelectronics                        | SN           | (A POLYSACCHARIDE WHICH IS THE                                   |
| RT       | human beings                         |          | microprocessors                         |              | PRINCIPAL CONSTITUENT OF THE                                     |
|          |                                      |          | reconfigurable hardware                 |              | SHELLS OF CRABS AND LOBSTERS, THE SHARDS OF BEETLES, AND IS ALSO |
| chin     |                                      |          | RISC processors                         |              | FOUND IN CERTAIN FUNGI)  |
| GS       | anatomy                              |          | systolic arrays                         | DEF          | A polysaccharide which is the principa                           |
|          | face (anatomy)                       |          |   |              | ent of the shells of crabs and lobsters                          |
|          | chin                                 |          | very large scale integration            |              |  |
| рT       | bones                                |          | VHSIC (circuits)                        |              | the shards of beetles. It is also found in                       |
| IXI      |                                      |          |   | certain      |  |
|          | head (anatomy)                       | chins (  | memory devices)                         | GS           | biopolymers  |
| Ob in a  |                                      |          | Integrated microcircuit devices used    |              | . polysaccharides  |
| China    | 011 ( 10 11 1                        |          |   |              | chitin   |
| UF       | China (communist) mainland           |          | rely to perform the functions of data   |              | organic compounds  |
|          | Chinese Peoples Republic             |          | accepting, retaining, and emitting bits |              | . carbohydrates  |
| GS       | nations                              | of data. |   |              |  |
|          | . China                              | GS       | chips (electronics)                     |              | polysaccharides  |
| RT       | Asia                                 |          | . chips (memory devices)                |              | chitin   |
|          | Chinese aircraft                     |          | computer components                     | RT           | gums (substances)  |
|          |                                      |          | . chips (memory devices)                |              | starches   |
|          | Chinese space program                | DT .     | • devices                               |              |  |
|          | Chinese spacecraft                   | IXI °    |   | chloral      |  |
|          | Hong Kong                            |          | integrated circuits                     | GS           | aldehydes  |
|          | Taiwan                               |          | memory (computers)                      |              | . chloral  |
|          |                                      |          | metal-nitride-oxide-semiconductors      |              | · omorai   |
| China (  | communist) mainland                  |          | semiconductor devices                   | ablarat      |  |
| USE      | China                                |          |   | chlorat      |  |
|          |                                      | م امدناه | hmamiaa                                 | GS           | halogen compounds  |
| Chinese  | e aircraft                           |          | lynamics                                |              | . chlorine compounds   |
|          | ∘ aircraft                           |          | chirality                               |              | chlorates  |
|          | China                                | c        | ∘ dynamics                              | RT o         | ∞ oxygen compounds   |
|          | Cillia                               |          | group theory                            |              | perchlorates   |
| 01::     | Deceles Deceles                      |          | Lagrange multipliers                    |              |  |
|          | Peoples Republic                     |          | matrices (mathematics)                  | Chlorel      | la .   |
| USE      | China                                |          | matross (matromatics)                   |              |  |
|          |                                      |          |   |              | A genus of unicellular green algae to                            |
| Chines   | e space program                      | chiralit | y                                       |              | pted to converting carbon dioxide into                           |
| GS       | programs                             | (add     | ed August 1994)                         | , ,          | in a closed ecological system.                                   |
|          | . space programs                     | ĠS       | symmetry                                | GS           | plants (botany)  |
|          | Chinese space program                |          | . chirality                             |              | . algae  |
| RT       | China                                | RT       | antisymmetry                            |              | Chlorella  |
| 17.1     | Long March launch vehicles           | IXI      | chiral dynamics                         | RT           | aerospace medicine   |
|          |                                      |          |   |              | carbon dioxide   |
| ۰        | research projects                    |          | enantiomers                             |              | culture techniques   |
|          | Shenzhou 5 spacecraft                |          | group theory                            |              | •  |
|          | space missions                       |          | handedness                              |              | life support systems   |
|          | Taiwan                               |          |   |              | oxygen   |
|          |                                      | Chiron   |   |              | photosynthesis   |
| Chinese  | e spacecraft                         |          | Minor planet 2000!-                     |              |  |
|          | Spacecraft built and launched by the | DEF      | Minor planet 2060, a solar system as-   | chlorid      | es   |
|          | Peoples Republic.                    |          | iscovered by Charles T. Kowal of Hale   | UF           | pentachlorides   |
|          | Chinese spacecraft                   | Observa  | atories. Used for Minor Planet 2060.    |              | trichlorides   |
| GS       | •                                    | UF       | Minor Planet 2060                       | GS           | halogen compounds  |
|          | . Shenzhou 5 spacecraft              | GS       | celestial bodies                        | GS           |  |
| RT       | China                                |          | . asteroids                             |              | . chlorine compounds   |
|          | Long March launch vehicles           |          | Chiron                                  |              | chlorides  |
| ۰        | ∘ spacecraft                         | DT       |   |              | aluminum chlorides   |
|          | Taiwan                               | KI       | Apollo asteroids                        |              | ammonium chlorides   |
|          |                                      |          | asteroid belts                          |              | beryllium chlorides  |
| chinone  |                                      |          | meteoroids                              |              | boron chlorides  |
| USE      | quinones                             |          | planets                                 |              | cadmium chlorides  |
| USE      | quiilones                            |          | solar system                            |              | calcium chlorides  |
| Ob:      | k haliaantar                         |          | space debris                            |              |  |
|          | k helicopter                         |          | -p ======                               |              | carbon tetrachloride   |
| USE      | CH-47 helicopter                     |          |   |              | copper chlorides   |
|          |                                      |          | omus flies                              |              | dichlorides  |
| chippin  | g                                    | GS       | animals                                 |              | germanium chlorides  |
| RT       | abrasion                             |          | . invertebrates                         |              | hydrochlorides   |
|          | comminution                          |          | arthropods                              |              | hydrogen chlorides   |
|          | cutting                              |          | insects                                 |              | hydrochloric acid  |
|          |                                      |          | chironomus flies                        |              | iron chlorides   |
|          | flaking                              | 5.7      |   |              |  |
|          | fracturing                           | RT       | Drosophila                              |              | lanthanum chlorides  |

... lead chlorides . . . nitrosyl chlorides ... trichloroethylene . . . lithium chlorides . . . nitroxychlorides . . . magnesium chlorides nitryl chlorides chlorofluorocarbons . nitrosyl chlorides phosgene (added December 1991) . . . nitroxychlorides . . . potassium chlorides DEF A family of compounds of chlorine, . nitryl chlorides silicon tetrachloride fluorine, and carbon, entirely of industrial origin. . . . silver chlorides ... phosgene CFCs include refrigerants, propellants for spray . potassium chlorides sodium chlorides cans and for blowing plastic-foam insulation, ... silicon tetrachloride ... sulfur chlorides styrofoam packaging, and solvents for cleaning . silver chlorides tetrachlorides electronic circuit boards. ... sodium chlorides . . . titanium chlorides **CFCs** . sulfur chlorides tungsten chlorides GS carbon compounds . . . tetrachlorides . . . zinc chlorides . halocarbons . titanium chlorides . . chlorine fluorides . chlorofluorocarbons . . . tungsten chlorides . . chlorine oxides halogen compounds . zinc chlorides . . chlorocarbons . halocarbons . . chlorosilanes . halides . chlorofluorocarbons . . chlorides . . DDT air pollution . . . aluminum chlorides . . meclizine chlorocarbons . . . ammonium chlorides . . . beryllium chlorides perchlorates chlorofluoromethane . . . aluminum perchlorates contaminants . . . boron chlorides . . . cadmium chlorides ammonium perchlorates fluorocarbons hydrazine perchlorates greenhouse effect . calcium chlorides hydrogen perchlorate ozone depletion . . . carbon tetrachloride hydroxylammonium perchlorates ozonosphere copper chlorides lithium perchlorates magnesium perchlorates . dichlorides chlorofluoromethane . germanium chlorides nitronium perchlorate GS halogen compounds hydrochlorides potassium perchlorates . fluorine compounds . hydrogen chlorides . trichloroethylene . . fluoro compounds . hydrochloric acid RT ∞ chemical compounds ... fluorine organic compounds iron chlorides halocarbons . . . . fluorohydrocarbons . lanthanum chlorides . . . . chlorofluoromethane lead chlorides chlorine fluorides organic compounds . lithium chlorides GS halogen compounds . fluorine organic compounds . . . magnesium chlorides . . fluorohydrocarbons . . . chlorofluoromethane . chlorine compounds . nitrosyl chlorides chlorine fluorides . . . nitroxychlorides . fluorine compounds . hydrocarbons . . fluorohydrocarbons . . . nitryl chlorides . . fluorides ... phosgene . chlorine fluorides ... chlorofluoromethane ... potassium chlorides halides air pollution chlorofluorocarbons . . . silicon tetrachloride . . fluorides . silver chlorides . chlorine fluorides contaminants ... sodium chlorides liquid rocket propellants methane . . . sulfur chlorides ozone depletion . . . tetrachlorides chlorine oxides . . . titanium chlorides . . . tungsten chlorides chloroform GS chalcogenides . . zinc chlorides . oxides GS drugs . anesthetics methyl chloride . chlorine oxides halogen compounds . chloroform polyvinyl chloride salt beds . chlorine compounds anesthesiology ... chlorine oxides chlorination chloroformate chemical reactions GS esters chloroaromatics . halogenation . chloroformate chloroaromatics . chlorination formates chlorobenzenes bleaching . chloroformate  $RT \, \infty \, aromatic \, \, compounds \, \,$ hydrometallurgy pyrometallurgy chlorophylls chlorobenzenes water treatment magnesium compounds GS chloroaromatics chlorophylls chlorine . chlorobenzenes organometallic compounds chemical elements organic compounds . chlorophylls . cyclic compounds . halogens pigments . . chlorine . . cyclic hydrocarbons chlorophylls chlorobenzenes porphyrins chlorine compounds . hydrocarbons . chlorophylls GS halogen compounds . . cyclic hydrocarbons RT algae chlorine compounds . . chlorobenzenes brown wave effect . . chlorates RT benzene cells (biology) . . chlorides chloroplasts . . . aluminum chlorides chlorocarbons Coastal Zone Color Scanner . . . ammonium chlorides All compounds containing chlorine and dissolved organic matter . beryllium chlorides carbon with or without other elements. green wave effect . . . boron chlorides carbon compounds ocean color scanner ... cadmium chlorides halocarbons photosynthesis ... calcium chlorides . chlorocarbons plants (botany) . carbon tetrachloride halogen compounds porphines ... copper chlorides . chlorine compounds Sea-viewing Wide Field-of-view dichlorides chlorocarbons Sensor ... germanium chlorides halocarbons skin (anatomy) hydrochlorides . chlorocarbons . . . hydrogen chlorides chlorofluorocarbons . hydrochloric acid chloroplasts . . . iron chlorides GS organelles

chloroethylene

organic compounds . ethylene compounds

. . chloroethylene

. chloroplasts

cells (biology)

chlorophylls

cvtoplasm

. . . lanthanum chlorides

. . . magnesium chlorides

. . . lead chlorides

. . . lithium chlorides

photosynthesis real variables tangents chloroprene resins cholesterol choroid membranes neoprenes organic compounds GS GS anatomy GS . lipids . sense organs elastomers . . steroids . rubber . . eye (anatomy) . . synthetic rubbers . . cholesterol .. choroid membranes . . . chloroprene resins arteriosclerosis membranes . choroid membranes liquid crystals chlorosilanes vision GS halogen compounds choline . chlorine compounds GS organic compounds chorus (dawn phenomenon) chlorosilanes USE dawn chorus choline hydrogen compounds vitamins . hydrides chorus phenomenon . . silanes cholinergic blocking agents USF dawn chorus . chlorosilanes USE anticholinergics silicon compounds chromates . silanes dichromates cholinergics chlorosilanes GS chromium compounds GS drugs . cholinergics . chromates chlorpromazine . . potassium chromates . anticholinergics GS hydrazines RT ∞ oxygen compounds RT cyclic AMP . chlorpromazine chromatin cholinesterase Choctaw helicopter biopolymers (added August 2004) GS USE CH-34 helicopter . proteins The material of chromosomes. It is a complex of DNA, histones, and nonhistone pro-. . enzymes choice . . cholinesterase teins ( chromosomal proteins, non-histone) USE selection found within the nucleus of a cell. organic compounds . proteins chromosomes choked flow cytology . . enzymes (added July 1992) deoxyribonucleic acid . . cholinesterase ĠS fluid flow neutrophils RT neuromuscular transmission choked flow channel flow chromatography ducted flow chondrites DEF The separation of chemical substances by making use of differences in the flow velocity DEF Meteoritic stones characterized by inlet flow small rounded grains or spherules. nozzle flow GS celestial bodies rates at which the substances travel through or orifice flow along a stationary medium. . meteorites pipe flow . . stony meteorites GS chemical tests . chemical analysis ... chondrites . . chromatography chokes ... Bruderheim meteorite (EXCLUDES FUEL SYSTEM AND ELECTRONIC DEVICES) chokes (restrictions) gas chromatography SN carbonaceous chondrites . . . gel chromatography Alais meteorite liquid chromatography Allende meteorite ∞ diffusers paper chromatography Cold Bokkeveld meteorite electric coils thin layer chromatography Ivuna meteorite
Murchison meteorite mixing adsorption nozzle inserts colorimetry Murray meteorite ∞ nozzles quantitative analysis Orgueil meteorite sorption Tonk meteorite chokes (fuel systems) Harleton meteorite carburetors Hvittis chondrite chrome chokes (restrictions) Okhansk meteorite USE chromium fuel systems Pantar chondrites orifices . . Pribram meteorite chromic acid ∞ systems achondrites GS acids chondrule . chromic acid chokes (restrictions) siderophile elements chromium compounds chokes tektites . chromic acid chokes (fuel systems) closures chondrule chromites constrictions chondrites GS minerals impedance enstatite . chromites ∞ nozzles meteorites chromium orifices meteoritic microstructures chromium oxides throats mineralogy peridotite valves serpentine choppers (electric) cholera USE electric choppers GS diseases chromium . infectious diseases chrome . . bacterial diseases chemical elements chords (geometry) . . cholera Straight lines intersecting circles or . chromium human pathology other curves, or straight lines connecting the . . chromium isotopes kidney diseases ends of arcs. In aeronautics, straight lines intermetals pathogenesis secting or touching airfoil profiles at two points; . refractory metals specifically, those parts of lines between two . . chromium pathological effects points of intersections. Used for aerodynamic . . chromium isotopes physiological effects . transition metals chords. chromium Cholesky factorization aerodynamic chords . . chromium isotopes DEF A numerical algorithm used to solve GS geometry linear systems of equations. Euclidean geometry refractory materials factorization . . lines (geometry) . refractory metals GS . Cholesky factorization . . chromium chords (geometry)

curves (geometry)

tangential blowing

geodesic lines

conjugates finite element method

iterative solution

. . chromium isotopes

RT

chromites

heavy metals

| strategic materials                       | . refractory metals                              | . reaction time                               |
|---|--|---|
| chategie materiale                        | chromium   | chronaxy                                      |
| chromium alloys                           | chromium isotopes                                | RT responses                                  |
| GS alloys                                 |  | sensory stimulation                           |
| . chromium alloys                         | chromium oxides                                  | thresholds (perception)                       |
| Astroloy (trademark)                      | GS chalcogenides                                 | ,       |
| chromium steels                           | . oxides   | chronic conditions                            |
| Rene 41                                   | metal oxides                                     | GS conditions                                 |
| Rene 63                                   | chromium oxides                                  | . chronic conditions                          |
| Rene 77                                   | chromium compounds                               | RT blood volume                               |
| Rene 95                                   | . chromium oxides                                | diseases                                      |
| RT heat resistant alloys                  | RT chromites                                     | disorders                                     |
| Inconel (trademark)                       |  | health  |
| stainless steels                          | chromium steels                                  |   |
| Stellite (trademark)                      | DEF Steels containing chromium as the            | chronobiology                                 |
| Waspaloy                                  | main alloying element.                           | USE rhythm (biology)                          |
|   | GS alloys  | 001y (a.o.ogy)                                |
| chromium borides                          | . chromium alloys                                | chronographs                                  |
| GS boron compounds                        | chromium steels                                  | USE chronometers                              |
| . borides                                 | . iron alloys                                    | COL UNIONOMICICIS                             |
| chromium borides                          | steels   | chronology                                    |
| chromium compounds                        | chromium steels                                  |   |
| . chromium borides                        | RT ferritic stainless steels                     | UF age determination dating                   |
| chromium bromides                         | ah ramanharaa                                    | GS chronology                                 |
|   | chromophores                                     | . geochronology                               |
| GS chromium compounds . chromium bromides | (added July 1994)<br>RT color                    | RT time                                       |
| halogen compounds                         | dves   | IVI dille                                     |
| . bromine compounds                       | electrochromism                                  | chronometers                                  |
| bromides                                  | nonlinear optics                                 |   |
| chromium bromides                         | optical activity                                 | UF chronographs                               |
| . halides                                 | optical materials                                | GS measuring instruments                      |
| bromides                                  | ∞ optics   | . time measuring instruments                  |
| chromium bromides                         | pigments   | clocks  |
| metal halides                             | piginents  | <b>chronometers</b><br>RT atomic clocks       |
| chromium bromides                         | chromosome aberrations                           |   |
| Chi omium biomiues                        | (added August 2004)                              | clock paradox                                 |
| chromium carbides                         | DEF Abnormal number or structure of chro-        | time measurement                              |
| GS carbon compounds                       | mosomes.   | timing devices                                |
| . carbides                                | RT chromosomes                                   | al an analysis and                            |
| chromium carbides                         | congenital anomalies                             | chronophotography                             |
| chromium compounds                        | genes  | UF time lapse photography                     |
| . chromium carbides                       | mitosis  | GS imagery                                    |
|   | mutations  | . photography                                 |
| chromium compounds                        | telomeres  | chronophotography                             |
| GS chromium compounds                     |  | RT black and white photography                |
| . chromates                               | chromosomes                                      | motion pictures                               |
| potassium chromates                       | DEF The self replicating genetic structure of    |   |
| . chromic acid                            | cells containing the celllular DNA that bears in | chronotrons                                   |
| . chromium borides                        | it's nucleotidesequence the linear array of      | USE pulse rate                                |
| . chromium bromides                       | genes.   | time lag                                      |
| . chromium carbides                       | RT cells (biology)                               |   |
| . chromium fluorides                      | chromatin  | chugging                                      |
| . chromium oxides                         | chromosome aberrations                           | USE combustion stability                      |
| . sodium chromites                        | congenital anomalies                             |   |
| RT ∞ chemical compounds                   | cytology   | Chukchi Sea                                   |
| ∞ Group 6B compounds                      | gene expression                                  | DEF Part of the Arctic Ocean north of the     |
| ∞ metal compounds                         | gene therapy                                     | Bering Strait between Asia and North America. |
|   | genes  | GS seas                                       |
| chromium fluorides                        | genetic code                                     | Chukchi Sea                                   |
| GS chromium compounds                     | genetics   | RT Arctic regions                             |
| . chromium fluorides                      | mitosis  |   |
| halogen compounds<br>. fluorine compounds | mutations  | chutes  |
| fluorine compounds                        | ∞ nuclei   | UF slides                                     |
| metal fluorides                           | reproductive systems<br>telomeres                | RT conveyors                                  |
| chromium fluorides                        |  | materials handling                            |
| . halides                                 | tetrad theory                                    | 0/0   |
| fluorides                                 | chromosphere                                     | CID   |
| metal fluorides                           | DEF A thin layer of relatively transparent       | USE charge injection devices                  |
| chromium fluorides                        | gases above the photosphere of the sun.          |   |
| metal halides                             | GS environments                                  | cinder cones                                  |
| metal fluorides                           | . extraterrestrial environments                  | USE cones (volcanoes)                         |
| chromium fluorides                        | stellar atmospheres                              |   |
|   | chromosphere                                     | cinefluorography                              |
| chromium isotopes                         | RT coronal loops                                 | USE motion pictures                           |
| GS chemical elements                      | faculae  | radiography                                   |
| . chromium                                | photosphere                                      |   |
| chromium isotopes                         | solar atmosphere                                 | cinematography                                |
| . nuclides                                | solar corona                                     | GS imagery                                    |
| isotopes                                  | solar prominences                                | . photography                                 |
| chromium isotopes                         | solar transition region                          | cinematography                                |
| metals                                    | spicules   | RT animation                                  |
| . refractory metals                       | stellar structure                                | black and white photography                   |
| chromium                                  | stellar winds                                    | cameras                                       |
| chromium isotopes                         | Transition Region and Coronal                    | color photography                             |
| . transition metals                       | Explorer   | infrared photography                          |
| chromium                                  |  | motion pictures                               |
| chromium isotopes                         | chronaxy   | stereophotography                             |
| refractory materials                      | GS time  | streak cameras                                |

video tapes transformers . RC circuits transmission circuits . RL circuits cineradiography transmission lines . . RLC circuits USE motion pictures voltage regulators . squelch circuits radiography . sweep circuits . switching circuits circuit reliability cinespectrographs . . fluid switching elements reliability GS optical measuring instruments . logic circuits . circuit reliability spectroscopy . transistor circuits aircraft reliability . transmission circuits component reliability cinetheodolites . trigger circuits drift (instrumentation) GS measuring instruments . varactor diode circuits quality control . optical measuring instruments . . threshold gates sneak circuit analysis . . transits amplifiers spacecraft reliability ... theodolites breadboard models . . cinetheodolites capacitors circuits optical equipment ∞ cascades Networks providing one or more . optical measuring instruments circuit protection closed paths. Used for electric circuits, explod-. . transits differentiators ing conductor circuits, shunts, and subcircuits. ... theodolites digital electronics electric circuits ... cinetheodolites duality principle exploding conductor circuits duplexers electric connectors photographic tracking shunts satellite tracking subcircuits electric current circuits
. adding circuits
. analog circuits GS circadian rhythms ∞ electric equipment DEF Regular changes in physiological funcelectric filters tion occurring in approximately 24 hour cycles. electric motors Used for diurnal rhythms. autodynes electric power transmission bistable circuits
. flip-flops diurnal rhythms electric wire GS rhythm (biology) electrical grounding cancellation circuits . circadian rhythms electromechanics activity cycles (biology) clamping circuits electron tubes coincidence circuits photoperiod flat conductors comparator circuits zeitgebers inductors conjugated circuits integrators circles (geometry) . counting circuits Kirchhoff law of networks geometry . . scalers loops coupling circuits . Euclidean geometry microelectronics .. circles (geometry) . delay circuits microminiaturization . . great circles . phantastrons microstrip devices RT circumferences digital integrators miniature electronic equipment . diplexers curves (geometry) miniaturization . discriminators ellipses modules . . Fraunhofer line discriminators radii network analysis ∞ rings . . frequency discriminators oscillators echo suppressors ∞ sectors selectors . electric bridges segments short circuits . . wire bridge circuits spheres signal generators . . . Wheatstone bridges solid state devices equivalent circuits circuit boards solions electronic packaging feedback circuits RT ∞ strip fire control circuits printed circuits transmission lines . fluidic circuits trees (mathematics) circuit breakers . gates (circuits) underground transmission lines breakers (electric) . . field-programmable gate arrays voltage controlled oscillators RT disconnect devices . threshold gates wiring dropouts . hybrid circuits electric relays . integrated circuits circular cones . . application specific integrated ∞ fuses GS cones circuits
.. DTL integrated circuits
.. encapsulated microcircuits
.. field-programmable gate arrays switches . circular cones switching circuits RT half cones nose cones circuit diagrams large scale integration schematics circular cylinders GS linear integrated circuits diagrams RT ∞ cylinders circuit diagrams cylindrical bodies medium scale integration RT engineering drawings TTL integrated circuits cylindrical shells very large scale integration VHSIC (circuits) layouts elliptical cylinders photomasks iterative networks circular orbits circuit protection LC circuits orbits protection . limiter circuits . circular orbits circuit protection . clipper circuits . stationary orbits RT capacitors linear circuits RT Earth orbits circuits . magnetic circuits eccentric orbits current regulators . matrices (circuits) elliptical orbits electric fuses microwave circuits equatorial orbits electric power transmission . mixing circuits geosynchronous orbits electric reactors . multivibrators lunar orbits orbital mechanics electrical faults . . flip-flops planetary orbits electrical grounding . . monostable multivibrators electrical insulation polar orbits . negative resistance circuits expulsion . Ohms law . quadratures . phase detectors ∞ fuses satellite orbits overvoltage . synchroscopes solar orbits phase control . phase shift circuits spacecraft orbits . . circulators (phase shift circuits) phase error twenty-four hour orbits sneak circuit analysis . pneumatic circuits suppressors . power supply circuits circular plates

. printed circuits

surges

GS structural members

. plates (structural members) circular plates

annular plates disks (shapes) end plates flat plates

#### circular polarization

polarization (waves)

circular polarization elliptical polarization optical polarization

#### circular shells

GS shells (structural forms)

. circular shells cylindrical shells hemispherical shells metal shells spherical shells

#### circular tubes

cylindrical shells duct geometry pipes (tubes) ∞ tubes

#### circular waveguides

DEF Small hollow tubes that are designed to transmit a specific wavelength along the length of the tube.

ĞS waveguides

. circular waveguides microwave transmission propagation modes

#### circulation

DEF The flow or motion of a fluid in or through a given area or volume. A precise measure of the average flow of a fluid along a given closed curve. Used for recirculation.

recirculation GS

circulation

. atmospheric circulation

. zonal flow (meteorology)

. blood circulation

. . brain circulation

. . coronary circulation . . intercranial circulation

. . ocular circulation

. . peripheral circulation

. . pulmonary circulation

water circulation

. . water currents

. . . ocean currents

. . . . coastal currents

el Nino

. . . . Gulf Stream

. . . . Lomonosov current

. thermohaline circulation

RT blowing

circulation distribution

congestion

∞ currents

delivery

diffusion dispersing

∞ flow

fluid flow

purging rotation

## circulation control airfoils

DEF Airfoils in which a high lift capability is produced by supercirculation where control of the stagnation points by the jet sheet produces high lift coefficients.

GS airfoils

#### . circulation control airfoils

. circulation control rotors

blowing boundary layer control Coanda effect

∞ control

164

lift augmentation short takeoff aircraft

tangential blowing

under surface blowing

upper surface blowing

#### circulation control rotors

DEF Rotors that provide STOL capability on high performance aircraft by means of tangential blowing over a rounded trailing edge and mass flow characteristic of turbine engine bleed.

GS airfoils

. circulation control airfoils

. . circulation control rotors

. wings

. . rotary wings

. circulation control rotors

rotating bodies

. rotors

. . rotary wings

. . circulation control rotors

 $RT \, \infty \, control$ 

vertical takeoff aircraft

x wing rotors

#### circulation distribution

DEF The line integral of the velocity component around a curve along the closed contour.

atmospheric circulation

circulation ∞ distribution

velocity distribution

# circulators (phase shift circuits)

circuits

. phase shift circuits

. circulators (phase shift circuits)

cavity resonators

delay circuits

duplexers

Faraday effect

Hall generators limiter circuits

### circulatory system

GS anatomy

# . circulatory system

. . cardiovascular system

. . . blood vessels

. . . . arteries

. . . . . aorta

. . . . . arterioles

. . . capillaries (anatomy)

. . . . . glomerulus

. . . . veins

... heart

. . . . cardiac auricles

.... cardiac ventricles

. . . . epicardium

.... heart conduction system

. . myocardium

arteriosclerosis

artificial cardiac pacemaker

blood circulation blood pumps

carotid sinus body carotid sinus reflex

exercise physiology

hypervolemia

organs

#### circumferences

geometry GS

Euclidean geometry

. . analytic geometry

. circumferences

boundaries circles (geometry)

diameters radii

#### circumlunar communication

GS telecommunication

. space communication . . lunar communication

. circumlunar communication interplanetary communication

radar radio communication

satellite communication spacecraft communication unified S band

### circumlunar trajectories

GS trajectories

. round trip trajectories

. . circumlunar trajectories

. . lunar trajectories

Earth-Moon trajectories

lunar flight

moon-Earth trajectories

transfer orbits

wind (meteorology)

. circumpolar westerlies

zonal flow (meteorology)

circumsolar radiation

DEF Radiation from small angle scattering of direct sunlight from atmospheric aerosols with dimensions on the order of or greater than the wavelength of light.

extraterrestrial radiation

. circumsolar radiation

atmospheric scattering

scattering

# sunlight circumsolar telescopes

DEF Optical instruments for measuring the circumsolar radiation for application to solar energy systems. Mirrors and lenses are utilized

GS

# telescopes . circumsolar telescopes

lenses

optical equipment radiation pyrometers

circumstellar matter

# cirques (landforms)

landforms GS

. structural basins

glaciers ice mountains

Cerriform clouds appearing as a thin sheet of small white puffs resembling flakes or

GS clouds (meteorology)

cirrocumulus clouds

atmospheric moisture cirrostratus clouds

cloud cover fog

precipitation (meteorology)

thunderstorms weather

#### cirrostratus clouds

DEF Cirriform clouds appearing as a whitish totally cover the sky.

GS clouds (meteorology)

. spacecraft trajectories

... circumlunar trajectories

Earth orbits

lunar orbits

reentry trajectories rendezvous trajectories

circumpolar westerlies

atmospheric circulation jet streams (meteorology)

winds aloft

. solar radiation

light scattering ∞ radiation

for incident sunlight concentration.

measuring instruments mirrors

solar radiation

USE stellar envelopes

. cirques (landforms)

snow

cirrocumulus clouds

patches of cotton without shadows.

climatology

meteorology nephanalysis

veil. Usually fibrous, sometimes smooth, they often produce halo phenomena. This form may

. cirrostratus clouds

| RT       | atmospheric moisture   | citric acid                                | CL-84 aircraft                                    |
|----------|--|--|---|
|          | cirrocumulus clouds  | RT citrates                                | tilt wing aircraft                                |
|          | climatology  |  | . CL-84 aircraft                                  |
|          | cloud cover  | citrus trees                               | transport aircraft                                |
|          | fog  | GS plants (botany)                         | . CL-84 aircraft                                  |
|          | meteorology  | . trees (plants)                           | V/STOL aircraft                                   |
|          | nephanalysis   | citrus trees                               | . CL-84 aircraft                                  |
|          | precipitation (meteorology)  | RT agriculture                             | RT ∞ aircraft                                     |
|          | thunderstorms  | blight                                     |   |
|          | weather  | botany                                     | CL-595 helicopter                                 |
|          | 1. 1.  | crop growth                                | USE XH-51 helicopter                              |
| cirrus c |  | crop vigor                                 | CL 600 shallowers sizeroff                        |
|          | Cirriform clouds in the form of thin,  | ∞ crops                                    | CL-600 challenger aircraft                        |
|          | eatherlike shapes in patches or narrow   | curing                                     | DEF Canadair turbofan aircraft with super-        |
|          | They have a fibrous and/or silky sheen.  | ∞ food                                     | critical wings.<br>GS Canadair aircraft           |
|          | e crystals often trail downward a consid-<br>vertical distance in fibrous, slanted, or | irrigation                                 | . CL-600 challenger aircraft                      |
|          | ·  | orchards<br>seeds                          | general aviation aircraft                         |
|          | rly curved wisps called mares' tails.  | seeus                                      | . CL-600 challenger aircraft                      |
| GS       | clouds (meteorology) . cirrus clouds   | civil aviation                             | jet aircraft                                      |
|          | . cirrus ciouus  | UF commercial aviation                     | . turbofan aircraft                               |
| cirrus s | shields  | RT A-380 aircraft                          | CL-600 challenger aircraft                        |
|          | clouds (meteorology)   | ∞ aeronautics                              | RT ∞ aircraft                                     |
| 00       | . cirrus shields   | air law                                    | ∞ military aircraft                               |
| RT       | climatology  | airline operations                         | supercritical wings                               |
|          | meteorology  | aviation meteorology                       | Superonition wings                                |
|          | weather forecasting  | commercial aircraft                        | CL-823 aircraft                                   |
|          | weather renesating   | general aviation aircraft                  | UF Lockheed CL-823 aircraft                       |
| CIS      |  | passenger aircraft                         | GS jet aircraft                                   |
| USE      | Commonwealth of Independent  | paccongo: anoran                           | . CL-823 aircraft                                 |
|          | States   | civil defense                              | Lockheed aircraft                                 |
|          |  | RT air defense                             | . CL-823 aircraft                                 |
| cisluna  | r space  | antimissile defense                        | supersonic aircraft                               |
| DEF      | Of or pertaining to phenomena,   | chemical defense                           | . supersonic transports                           |
| projects | , or activity in the space between the   | ∞ defense                                  | CL-823 aircraft                                   |
| Earth ar | nd the moon, or between the Earth and  | defense program                            | transport aircraft                                |
| the mod  | on's orbit.  | evacuating (transportation                 | ) . CL-823 aircraft                               |
| GS       | environments   | nuclear explosions                         | RT ∞ aircraft                                     |
|          | . aerospace environments   | nuclear warfare                            |   |
|          | cislunar space   | protection                                 | cladding  |
|          | . extraterrestrial environments  | Sentinel system                            | DEF A coating placed on the surface of a          |
|          | . cislunar space   | shelters                                   | material and usually bonded to the material.      |
| RT       | deep space   | survival                                   | GS metal working                                  |
|          | Earth-Moon trajectories  | warning                                    | cladding  |
|          | interplanetary space   | warning systems                            | RT anodic stripping                               |
|          | lunar flight   |  | cathodic coatings                                 |
|          | lunar orbits   | CL-41 aircraft                             | cold working                                      |
| 0        | ∘ space  | UF Canadair CL-41 aircraft                 | composite materials                               |
| -:4:     |  | CT-114 aircraft                            | explosive welding                                 |
| cities   |  | Tutor aircraft                             | extruding   |
| UF       | metropolitan areas   | GS attack aircraft                         | laminates   |
| GS       | urban areas  | . CL-41 aircraft                           | metal coatings                                    |
| GS       | Cities   | Canadair aircraft                          | metallizing                                       |
|          | . Atlanta (GA)   | . CL-41 aircraft                           | plating   |
|          | . Cedar Rapids (IA)<br>. Houston (TX)  | General Dynamics aircraf                   | t protective coatings                             |
|          | . Manitou (CO)   | . CL-41 aircraft                           | claiming  |
|          | . Moscow   | jet aircraft<br>. CL-41 aircraft           | RT ∞ law  |
|          | . New Haven (CT)   | monoplanes                                 | patents   |
|          | . New York City (NY)   | . CL-41 aircraft                           | preempting  |
|          | . Phoenix (AZ)   | RT ∞ aircraft                              | proompung   |
|          | . Pontiac (MI)   | ICI ∞ aliciali                             | clamped structures                                |
|          | . San Francisco (CA)   | CL-44 aircraft                             | (added February 1998)                             |
|          | . Vatican City   | UF Canadair CL-44 aircraft                 | RT beams (supports)                               |
| RT       | anthropology   | CC-106 aircraft                            | clamps  |
|          | communities  | Yukon aircraft                             | composite structures                              |
|          | heat islands   | GS Canadair aircraft                       | joints (junctions)                                |
|          | industrial areas   | . CL-44 aircraft                           | laminates   |
|          | inhabitants  | General Dynamics aircraft                  | t plates (structural members)                     |
|          | megalopolises  | CL-44 aircraft                             | shells (structural forms)                         |
|          | nations  | jet aircraft                               | structural members                                |
|          | residential areas  | . turboprop aircraft                       | structural vibration                              |
|          | sociology  | CL-44 aircraft                             | ∞ structures                                      |
|          | suburban areas   | monoplanes                                 |   |
|          | urban development  | . CL-44 aircraft                           | clamping circuits                                 |
|          | urban planning   | transport aircraft                         | DEF Circuits which maintain either extrem-        |
|          | urban research   | . cargo aircraft                           | ity of a waveform at a prescribed potential.      |
| -!44     |  | CL-44 aircraft                             | Networks for adjusting the absolute voltage level |
| citrates |  | RT ∞ aircraft                              | of waveforms.                                     |
| RT       | citric acid  | OL 04 sins of                              | GS circuits                                       |
|          | esters   | CL-84 aircraft                             | . clamping circuits                               |
|          |  | UF Canadair CL-84 aircraft                 | RT limiter circuits                               |
| citric a |  | GS antisubmarine warfare air               | craft power limiters                              |
| GS       | acids  | . CL-84 aircraft                           | alamna  |
|          | . carboxylic acids   | Canadair aircraft                          | clamps<br>PT bonds                                |
|          | citric acid  | . CL-84 aircraft                           | RT ∞ bands  |
|          | organic compounds  | General Dynamics aircraft . CL-84 aircraft |   |
|          | . carbohydrates citric acid  |  | clips   |
|          |  | jet aircraft                               | fasteners<br>holders                              |
|          | . carboxylic acids   | . turboprop aircraft                       | Holders   |

|          | iige   |          | evaluation   |          | . chemical cleaning          |
|----------|--|----------|--|----------|------------------------------|
|          | jigs<br>machanical davisas                                   |          |  |          | •                            |
|          | mechanical devices   |          | image classification   |          | pickling (metallurgy)        |
|          | sealing  |          | security   |          | . housekeeping (spacecraft)  |
|          | straps   |          | selection  |          | . sterilization              |
|          |  |          | size separation  |          | chemical sterilization       |
| clarity  |  |          | sorting algorithms   |          | spacecraft sterilization     |
| RT       | atmospheric optics   |          | taxonomy   |          | . ultrasonic cleaning        |
|          | electromagnetic properties                                   |          |  |          | . washing                    |
|          | haze   | clathra  | tes  |          | bathing                      |
|          | opacity  | RT ·     | ∞ chemical compounds   |          | . environmental cleanup      |
|          | optical properties   |          | crystal structure  | RT       | abrasion                     |
|          | purity   |          | crystals   |          | antifouling                  |
| 0        | sharpness  |          | inclusions   |          | antiseptics                  |
|          | solubility   |          |  |          | bleaching                    |
|          | transparence   | clays    |  |          | cleaners                     |
|          | turbidity  | GS       | clays  |          | cleanliness                  |
|          | tarbiaity  | 00       | . illite   |          | clearing                     |
| Clark Y  | airfoil  |          | . kaolinite  |          | 3                            |
|          | airfoil profiles   |          | . montmorillonite  |          | corrosion prevention         |
| OOL      | anton promes   |          |  |          | decontamination              |
| classes  | •  | DT       | . vermiculite  |          | descaling                    |
|          | categories   | RT       | alluvium   |          | dissolving                   |
|          | ogroups  |          | boreholes  |          | dust                         |
|          | ∘ groups<br>∘ sections                                       |          | bricks   |          | flushing                     |
| 0        | o Sections   |          | ceramics   |          | metal finishing              |
| Classia  | oircroft   |          | colloids   |          | metal polishing              |
| Classic  |  |          | fans (landforms)   |          | paint removal                |
| USE      | IL-62 aircraft   |          | grout  |          | polishing                    |
| -1!      | al march and a   |          | masonry  |          | purification                 |
|          | al mechanics   |          | mining   | ۰        | ∞ reduction                  |
| GS       | classical mechanics  |          | molding materials  | · ·      | refining                     |
|          | . space mechanics  |          | mud  |          | scarfing                     |
|          | astrodynamics  |          | refractory materials   |          | scavenging                   |
|          | celestial mechanics  |          | rocks  |          |                              |
|          | orbital mechanics  |          | sedimentary rocks  |          | scrubbers                    |
|          | Kepler laws  |          | •  | ۰        | separation                   |
|          | minimum variance orbit                                       |          | sediments  |          | surface finishing            |
|          | determination  |          | shales   |          | trichloroethylene            |
| RT       | angular momentum   |          | sizing materials   |          | waste water                  |
|          | continuum mechanics  |          | soils  |          |                              |
|          | equations of motion  |          | strip mining   | cleanlir | ness                         |
|          | Euler-Lagrange equation                                      |          |  | GS       | cleanliness                  |
|          | Hamiltonian functions  | clean e  |  |          | . housekeeping (spacecraft)  |
|          |  | RT       | air pollution  | RT       | clean rooms                  |
|          | Lagrange coordinates   |          | environment pollution  |          | cleaners                     |
|          | Maxwell bodies   |          | environmental engineering  |          | cleaning                     |
| 0        | o mechanics (physics)  |          | geothermal energy conversion   |          | hygiene                      |
|          | momentum   |          | renewable energy   |          | oral hygiene                 |
|          | phase-space integral   |          | tidepower  |          | ora. rrygiorio               |
|          | Poisson equation   |          | water pollution  | clear ai | ir turbulence                |
|          | quaternions  |          | waterwave energy   | GS       | turbulence                   |
|          | statistical mechanics  |          | windpower utilization  | 00       | . atmospheric turbulence     |
|          |  |          | windpower dilization   |          | •                            |
| classifi | cations  | clean f  | uole   | DT       | clear air turbulence         |
| GS       | classifications  | DEF      | Energy sources from which pollutants   | RT       | aviation meteorology         |
|          | . hierarchies  |          | 0,   |          | gusts                        |
|          | BBGKY hierarchy  |          | her impurities have been removed by  |          | jet streams (meteorology)    |
|          | dichotomies  |          | , purification, and other means, to pro-   |          | thermal instability          |
|          | . indexes (documentation)                                    |          | els less conducive to pollution.   |          | turbulent diffusion          |
|          | KWIC indexes   | GS       | fuels  |          | wind shear                   |
|          | Wiswesser notations  |          | . clean fuels  |          |                              |
|          | . subjects   | RT       | beneficiation  | clearan  | ces                          |
| DT       | ,  |          | chemical fuels   | RT       | adjusting                    |
| RT       | astronomical catalogs  |          | hydrocarbon fuels  |          | alignment                    |
|          | • breakdown  |          | pollution  |          | allowances                   |
| 0        | o classifying  |          | refining   |          | datum (elevation)            |
|          | cluster analysis   |          | synthetic fuels  |          | spacing                      |
|          | congeners  |          |  |          | tightness                    |
|          | image classification   | clean r  | ooms   |          | tolerances (mechanics)       |
|          | taxonomy   | DEF      | Areas in which the temperature, hu-  |          | ,                            |
|          |  |          | and the airborne particulate contamina-  | clearing | g                            |
| classifi |  | tion are | controlled as required.  | RT       | cleaning                     |
| GS       | separators   | GS       | rooms  |          | purging                      |
|          | . classifiers  |          | . clean rooms  |          | removal                      |
|          | sizing screens   | RT       | assembling   |          | Tomovai                      |
|          | thickeners (equipment)                                       |          | cleanliness  | clearing | gs (openings)                |
| RT       | centrifuges  |          | controlled atmospheres   | UF       | slashes                      |
|          | concentrating  |          | environmental control  | GS       | clearings (openings)         |
|          | concentrators  |          | GITALI GUILLI GU | GS       | . firebreaks                 |
|          | flotation  | cleane   | rs   |          |                              |
| 0        | • separation   | GS       | rs<br>cleaners   | DT       | . polynyas                   |
|          | shakers  | GS       |  | RT       | deforestation                |
|          | size determination   | DT       | . air filters  |          | forests                      |
|          | size separation  | RT.      | ∞ absorbers  |          | trees (plants)               |
|          | •  |          | absorbers (equipment)  |          |                              |
|          | spirals (concentrators)                                      |          | absorbers (materials)  | cleavag  |                              |
| olooo!f  | ving.  |          | cleaning   | UF       | scission                     |
| classify | · •  |          | cleanliness  | RT       | brittle materials            |
| SN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |          | separators   |          | brittleness                  |
|          | LISTED BELOW)  |          | ultrasonic cleaning  |          |                              |
| UF       | sorting  |          | washers (cleaners)   | Clebsc   | h-Gordan coefficients        |
| RT       | classifications  |          | , ,  | GS       | coefficients                 |
|          | concentrators  | cleanir  | ng   |          | . Clebsch-Gordan coefficient |
|          | discriminant analysis (statistics)                           | GS       | cleaning   | RT       | angular momentum             |

coupling average weather conditions and statistical varia-. clinical medicine tions for a specified region over an extended anesthesiology period of time. Clementine spacecraft bed rest (added May 1997) DEF A spacecraft launched in January 1994 Milankovitch theory blood volume climatology case histories as part of a joint NASA/DoD-BMDO (Ballistic agroclimatology diagnosis Missile Defense Organization) mission to space-. hydroclimatology examination qualify several lightweight electronic instru-. microclimatology healing ments and systems (including an ultraviolet/ . paleoclimatology health visible CCD camera, a near infrared and long-Antarctic regions human beings wavelength infrared camera, and a combined anvil clouds ∞ medicine high-resolution CCD camera and laser ranging Arctic regions ∞ operations system). The Clementine mission also provided atmospheric circulation sports medicine the first complete systematic surface mapping of Atmospheric General Circulation surgery the moon from the ultraviolet to near infrared Models transplantation spectral regions. A software malfunction in May cap clouds ∞ treatment of 1994 precluded a planned flyby of the astercirrocumulus clouds oid Geographos. cirrostratus clouds clinorotation asteroid missions cirrus shields (added July 2000) CCD cameras climate Rotational motion of a test subject flyby missions climate change about one or more axes that are inclined with lunar exploration cloud cover respect to the gravitational vector; often applied lunar maps cloud dispersal to simulate a microgravity environment. lunar spacecraft clouds (meteorology) UF clinostat rotation lunar surface dendrochronology clinostating ∞ spacecraft desertline GS gyration deserts . rotation client server systems environmental chemistry . clinorotation (added May 1996) environmental engineering RT centrifuging networks FIRE (climatology) clinostats . computer networks fog dispersal gravitational effects . client server systems
RT architecture (computers) geography gravitational physiology Glory Mission satellite microgravity computer systems design hailstorms rotating environments distributed processing heat islands space environment simulation internets humidity weightlessness Java (programming language) hurricanes weightlessness simulation on-line systems hydrology intraseasonal variations clinostat rotation cliffs ISCCP Project (added July 2000) bluffs (landforms) UF lightning suppression USE clinorotation RT canyons Madden-Julian Oscillation escarpments meteorology clinostating fiords middle atmosphere (added August 2000) landslides periodic variations USE clinorotation ledges phenology ∞ shelves polar meteorology clinostats slopes polar regions (added July 2000) precipitation (meteorology) topography Devices for producing vector-averaged primitive equations gravitational environments which mimic microclimate quasi-biennial oscillation gravity. macroclimate rainmaking random positioning machines RT climate change sea breeze GS simulators climatology seasons . environment simulators long term effects snowstorms . . space simulators meteorology solar radiation . clinostats paleoclimatology storm enhancement bioreactors Southern Oscillation storm suppression centrifuges weather storms clinorotation storms (meteorology) gravitational effects climate change sunlight gravitational physiology air pollution teleconnections (meteorology) microgravity atmospheric composition temperate regions rotating environments atmospheric temperature temperature space environment simulation biomass burning tropical regions tissue engineering carbon dioxide concentration weather weightlessness simulation CERES (experiment) wind (meteorology) climate zonal flow (meteorology) clipper circuits climate models circuits climatology climbing flight . limiter circuits global warming GS ascent . clipper circuits Glory Mission satellite climbing flight comparator circuits greenhouse effect RT ascent trajectories power limiters man environment interactions coasting flight Mission to Planet Earth ∞ flight paleoclimatology clips flight paths stratospheric warming RT anchors (fasteners) horizontal flight ∞ bands parabolic flight climate models clamps rocket flight (added March 1995) couplings soaring fasteners ĞS models takeoff . climate models holders turning flight mechanical devices atmospheric models vertical flight climate change environment models clock paradox clinical markers hydrology models GS time measurement (added August 2004) . clock paradox atomic clocks

USE biomarkers clinical medicine

GS medical science

ocean models

DEF Branch of meteorology that studies the

climatology

chronometers

time signals

|         | timing devices  |             | thermal cycling tests                                |          | . boots (footwear)  |
|---------|---|-------------|--|----------|---|
| -11     |   |             | thermodynamic cycles                                 |          | . cotton fibers   |
| clocks  |   |             |  |          | . coveralls   |
| UF      | watches   |             | ecological systems                                   |          | . flight clothing   |
| GS      | measuring instruments   |             | Systems that provide for the mainte-                 |          | . garments  |
|         | . time measuring instruments  |             | of life in an isolated living chamber                |          | . gloves  |
|         | clocks  |             | complete reutilization of the material               |          | . goggles   |
|         | atomic clocks   |             | le, in particular, by means of a cycle               |          | . protective clothing   |
|         | autonomous spacecraft clocks  |             | n exhaled carbon dioxide, urine, and                 |          | helmets   |
|         | chronometers  | other w     | aste matter are converted chemically or              |          | pressure suits  |
| RT      | time measurement  | by phot     | osynthesis into oxygen, water, and food.             |          | space suits   |
|         | time synchronization  | Used for    | or bioregenerative life support systems.             |          | extravehicular mobility units                                     |
|         | timing devices  | UF          | bioregenerative life support systems                 |          | vapor barrier clothing  |
|         |   | GS          | support systems                                      |          | . shoes   |
| cloggin | g   |             | . life support systems                               |          | . socks   |
| USE     | plugging  |             | closed ecological systems                            |          | . suits   |
|         |   | RT          |  |          | pressure suits  |
| clone c |   |             | bioastronautics                                      |          | space suits   |
| (add    | ed August 2004)   |             | ecology  |          | extravehicular mobility units                                     |
| DEF     | A group of genetically identical cells all  |             | ecosystems   | RT       | ,   |
| descen  | ded from a single common ancestral cell   |             | food production (in space)                           | 13.1     | consumables (spacecrew supplies)                                  |
| by mito | sis in eukaryotes or by binary fission in   |             | gnotobiotics   |          |   |
|         | otes. Clone cells also include popula-  |             | •  |          | cotton  |
|         | recombinant DNA molecules all carrying  |             | long term effects                                    |          | cuffs   |
|         | ne inserted sequence.   |             | oxygen production                                    |          | fabrics   |
|         | cells (biology)   |             | space habitats                                       |          | leather   |
| GG      | ( 0),   |             | spacecraft cabin atmospheres                         |          | textiles  |
|         | . cultured cells  |             | spacecraft environments                              |          | vests   |
|         | clone cells   |             | survival   |          |   |
| RT      | biotechnology   | c           | ∞ systems  | .1.44    |   |
|         | cell culturing  |             | •  | clotting | -   |
|         | cloning (biology)   | closed      | faults   | RT       | blood coagulation   |
|         | culture media   | USE         |  |          | embolisms   |
|         | culture techniques  | 002         | goo.og.oaaao   |          | thrombocytes  |
|         | cytology  | closed      | loop systems   |          | thromboplastin  |
|         | genetic engineering   |             | feedback control                                     |          | ·   |
|         | organ culturing   | USL         | leeuback control                                     |          |   |
|         | tissue culturing  | alaaina     |  |          | chambers  |
|         | tissue culturing  | closing     |  | DEF      | Devices for observing the paths of                                |
| alanina | (biology)   | KI          | blocking   | ionizing | particles, based on the principle that                            |
|         |   |             | plugging   | supersa  | aturated vapor condenses more readily                             |
|         | ed August 1997)   |             | sealing  | on ions  | than on neutral molecules.  |
| RT      | biotechnology   |             | stopping   | GS       | ionization chambers   |
|         | cells (biology)   |             |  |          | . cloud chambers  |
|         | clone cells   | Clostri     | dium   | RT       | bubble chambers   |
|         | culture media   | GS          | microorganisms                                       |          | ∞ chambers  |
|         | culture techniques  |             | . bacteria   |          |   |
|         | cultured cells  |             | Clostridium  |          | radiation counters  |
|         | deoxyribonucleic acid   |             | Clostridium botulinum                                |          | spark chambers  |
|         | gene expression   | RT          | bacterial diseases                                   |          |   |
|         | genes   | KI          | Dacterial diseases                                   | cloud    | cover   |
|         | genetic code  | Clastri     | dium botulinum                                       | UF       |   |
|         |   |             |  | RT       | anvil clouds  |
|         | genetic engineering   | GS          | microorganisms                                       |          |   |
|         | genetics  |             | . bacteria   | •        | ∞ blankets  |
|         | phenotype   |             | Clostridium  |          | cap clouds  |
|         | plasmids  |             | Clostridium botulinum                                |          | cirrocumulus clouds   |
|         | reproduction (biology)  | RT          | bacteriology   |          | cirrostratus clouds   |
|         |   |             | pathogens  |          | climatology   |
|         | acked lattices  |             | toxic diseases                                       |          | clouds (meteorology)  |
| GS      | crystal lattices  |             |  |          | FIRE (climatology)  |
|         | . close packed lattices   | closure     | a law  |          | flight conditions   |
| RT      | body centered cubic lattices  | GS          | laws   |          | ISCCP Project   |
|         | face centered cubic lattices  | 00          | . closure law  |          | meteorological parameters   |
|         |   | DT          |  |          | meteorology   |
| closed  | basins  | KI          | field theory (physics)<br>k-epsilon turbulence model |          | METEOSAT satellite  |
| USE     | structural basins   |             |  |          | nephanalysis  |
|         |   |             | statistical mechanics                                |          |   |
| closed  | circuit television  |             | turbulent flow                                       |          | shadows   |
|         | communication equipment   |             |  |          | sky   |
| -       | . closed circuit television   | closure     |  |          | sky brightness  |
|         | telecommunication   | RT «        | ∞ barriers   |          | solar radiation   |
|         | . closed circuit television   |             | blocking   |          | sunlight  |
|         |   |             | chokes (restrictions)                                |          | Venus clouds  |
|         | television systems  |             | constrictions  |          | Venus surface   |
|         | . closed circuit television   |             | couplings  |          | weather forecasting   |
| RT      | cable television  |             | coverings  |          | 3   |
|         | color television  |             | enclosures   |          |   |
|         | educational television  |             |  | cloud (  | dispersal   |
|         | stereotelevision  |             | end plates   | GS       | weather modification  |
|         | television cameras  |             | fasteners  |          | . cloud dispersal   |
|         | television receivers  |             | fittings   | RT       |   |
|         | television transmission   | c           | ∞ gates  |          | clouds (meteorology)  |
|         | wireless communication  |             | joints (junctions)                                   |          | dispersing  |
|         |   |             | plugging   |          | a.sporonig  |
| closed  | Will old of Communication   |             | plugs  |          |   |
|         |   |             |  |          |   |
| SN      | cycles  |             | seals (stoppers)                                     | cloud    | glaciation  |
|         | cycles (EXCLUDES CLOSED LOOP CONTROL  |             | seals (stoppers)                                     |          |   |
| DT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS)   |             | seals (stoppers) tightness                           |          | ice formation   |
| RT      | cycles ((EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory   |             | seals (stoppers)                                     | GS       | ice formation . cloud glaciation                                  |
| RT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory cooling systems  | ما - با -   | seals (stoppers) tightness                           |          | ice formation . cloud glaciation freezing                         |
| RT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory cooling systems electric generators                    | cloth       | seals (stoppers)<br>tightness<br>valves              | GS       | ice formation . cloud glaciation freezing graupel                 |
| RT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory cooling systems electric generators gas turbines       |             | seals (stoppers) tightness                           | GS       | ice formation . cloud glaciation freezing graupel hail            |
| RT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory cooling systems electric generators gas turbines loops | USE         | seals (stoppers) tightness valves fabrics            | GS       | ice formation . cloud glaciation freezing graupel hail ice clouds |
| RT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory cooling systems electric generators gas turbines       | USE clothin | seals (stoppers) tightness valves  fabrics           | GS       | ice formation . cloud glaciation freezing graupel hail            |
| RT      | cycles (EXCLUDES CLOSED LOOP CONTROL SYSTEMS) control theory cooling systems electric generators gas turbines loops | USE         | seals (stoppers) tightness valves fabrics            | GS       | ice formation . cloud glaciation freezing graupel hail ice clouds |

snow cover ice clouds meteorology infrared cirrus (astronomy) precipitation (meteorology) cloud height indicators Magellanic clouds remote sensing UF ceilometers magnetic clouds GS measuring instruments cloud-to-cloud discharges meteoroid dust clouds . indicating instruments molecular clouds (added August 1999) . . cloud height indicators Oort cloud GS electric current meteorological instrumentscloud height indicators Ophiuchi clouds . electric discharges particles . . lightning ceilings (meteorology) plasma clouds ... cloud-to-cloud discharges . Venus clouds cloud-to-ground discharges cloud photographs GS photographs clouds (meteorology) (added August 1999) . cloud photographs GS electric current DEF A visible mass of water vapor susaerial photography . electric discharges pended in the atmosphere above the Earth's all sky photography . . lightning ... cloud-to-ground discharges photography chaotic cloud patterns spaceborne photography GS clouds (meteorology) elves TIROS project . artificial clouds sprites (atmospheric physics) . . chemical clouds cloud photography clumps . . . barium ion clouds GS imagery RT agglomeration . cap clouds . photography atomic clusters . cirrocumulus clouds . cloud photography ∞ clusters . cirrostratus clouds aerial photography metal clusters . cirrus clouds all sky photography black and white photography molecular clusters . cirrus shields pattern recognition . convection clouds ESSA satellites . . arc clouds regression analysis meteorological satellites . . cumulonimbus clouds METEOSAT satellite cluster analysis . anvil clouds DEF The analysis of data with the object of Nimbus 1 satellite . . cumulus clouds finding natural groupings within the data either by hand or with the aid of a computer. Nimbus 2 satellite anvil clouds Nimbus project . ice clouds RT classifications Nimbus satellites nimbostratus clouds data mining image analysis spaceborne photography . noctilucent clouds TIROS operational satellite system stratocumulus clouds image processing TIROS project stratus clouds pattern recognition TIROS satellites RT acid rain remote sensing Alpine meteorology statistical analysis cloud physics atmospheric correction A subdivision of physical meteorology atmospheric moisture concerned with physical properties of clouds in the atmosphere and the processes occurring **Cluster Mission** CALIPSO (Pathfinder satellite) (added September 1989) CERES (experiment) space missions therein. climatology Cluster Mission GS atmospheric physics cloud cover Earth magnetosphere cloud physics cloud dispersal European space programs RT Aitken nuclei cloud seeding international cooperation Atmospheric Cloud Physics Lab clouds ∞ missions (Spacelab) CloudSat NASA space programs atmospheric electricity condensation nuclei scientific satellites SOHO Mission CERES (experiment) drop size condensation nuclei FIRE (climatology) solar terrestrial interactions condensing fog solar wind convection clouds fog dispersal drop size space plasmas ISCCP Project fog dispersal meteorology cluster variation method graupel MISR (radiometry) (added July 1997) DEF An exact, statistical-mechanical technephanalysis nephanalysis Ophiuchi clouds precipitation (meteorology) nique for approximating the configurational entropy of a crystalline material, such as an alloy. ∞ physics shadows precipitation (meteorology) The method is based on the cluster-cumulant ∞ science thunderstorms expansion of entropy, that involves the expan-Venus clouds weather sion of the thermodynamic quantities of an infiweather modification nite system in terms of the density matrices of Clouds and the Earth's Radiant Energy cloud seeding finite groups of lattice sites called clusters. The DEF Any technique carried out with the inmethod, first proposed by Kikuchi, was devel-(added May 2007) tent of adding to a natural cloud in a planetary oped as a theoretical tool for dealing with atomic USE CERES (experiment) atmosphere certain substances that will alter the ordering. natural development of that cloud. CVM (solid state) CloudSat GS nucleation binary alloys (added October 2005) cloud seeding body centered cubic lattices DEF An Earth observing satellite designed weather modification face centered cubic lattices to measure those properties of clouds that are cloud seeding Hamiltonian functions critical for understanding their effects on both clouds (meteorology) intermetallics weather and climate. Its millimeter-wavelength precipitation (meteorology) Ising model Cloud Profiling Radar (CPR) measures profiles ∞ methodology rain of cloud vertical structure, liquid and ice water order-disorder transformations rainmaking content, and cloud optical properties. phase diagrams stimulation artificial satellites phase transformations . scientific satellites solid solutions ∞ clouds . CloudSat (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) clouds (meteorology) statistical mechanics Earth Observing System (EOS) ternary alloys . CloudSat aerosols ∞ clusters Aqua spacecraft dust (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) electron clouds Aura spacecraft CALIPSO (Pathfinder satellite) exhaust clouds clouds (meteorology)
Earth observations (from space)

meteorological satellites

H I regions

H II regions

hydrogen clouds

atomic clusters

galactic clusters

clumps

|          | globular clusters                         |         | ∞ waves                                    | RT       | catalysts                                  |
|----------|---|---------|--|----------|--|
|          | metal clusters                            |         |  |          | coal                                       |
|          | micelles                                  | CNSR    |  |          | coal derived liquids                       |
|          | molecular clusters                        | USE     | Rosetta mission                            |          | coal gasification                          |
|          | Pleiades cluster                          |         |  |          | coal utilization                           |
|          | Praesepe star clusters                    | CNT (n  | anotechnology)                             |          | methane                                    |
|          | star clusters                             |         | led September 2001)                        |          | synthesis gas                              |
|          |   |         | carbon nanotubes                           |          | Synthesis gas                              |
|          | Virgo galactic cluster                    | USL     | Carbon nanotubes                           |          |  |
|          |   | Canaba  | alle Velley (CA)                           | coal de  | rived liquids                              |
|          |   |         | ella Valley (CA)                           |          | Fluid hydrocarbons derived from the        |
| clutche  |   | GS      | valleys                                    |          | tion of coal.                              |
| RT       | engine parts                              |         | . Coachella Valley (CA)                    |          |  |
|          | mechanical devices                        | RT      | California                                 | RT       | asphaltenes                                |
|          | mechanical drives                         |         | deserts                                    |          | catalysts                                  |
|          |   |         |  |          | coal                                       |
|          |   | coagul  | ation                                      |          | coal derived gases                         |
| clutter  |   | GS      | coagulation                                |          | coal gasification                          |
| DEF      | Atmospheric noise, extraneous sig-        | 93      |  |          | coal liquefaction                          |
|          |   |         | . blood coagulation                        |          | coal utilization                           |
|          | which tend to obscure the reception of    | RT      | accumulations                              |          | coai dillization                           |
|          | d signal in a radio receiver, radarscope, |         | agglomeration                              |          |  |
| etc.     |   |         | Aitken nuclei                              | coal ga  | sification                                 |
| GS       | echoes                                    |         | blood                                      | GS       | gasification                               |
|          | . radar echoes                            |         | coalescing                                 | 00       |  |
|          | clutter                                   |         |  |          | coal gasification                          |
| RT       | airborne radar                            |         | concentrating                              |          | hydropyrolysis                             |
| KI       |   |         | deposition                                 | RT       | coal                                       |
|          | jamming                                   |         | embolisms                                  |          | coal derived gases                         |
|          | radio frequency interference              |         | fibrin                                     |          | coal derived liquids                       |
|          | space-time adaptive processing            |         | flocculating                               |          | coal liquefaction                          |
|          |   |         | flotation                                  |          |  |
|          |   |         |  |          | cracking (chemical engineering)            |
| C-M dia  | aram                                      |         | gelation                                   |          | energy policy                              |
|          |   |         | hardening (materials)                      |          | fuel cell power plants                     |
| USE      | color-magnitude diagram                   |         | hemorrhages                                |          | gases                                      |
|          |   |         | lumping                                    |          | hydrocarbon fuels                          |
|          |   |         | precipitation (chemistry)                  |          |  |
| CMBR (   | 'astronomy)                               |         |  |          | hydrocracking                              |
| (adde    | ed July 2000)                             |         | ∞ separation                               |          | lignite                                    |
|          | cosmic microwave background               |         | ∞ setting                                  |          | methanation                                |
| 002      | radiation                                 |         | settling                                   |          | synthane                                   |
|          | radiation                                 |         | solidification                             |          | synthesis gas                              |
|          |   |         | thrombopenia                               |          | volatility                                 |
|          |   |         | water treatment                            |          | volatility                                 |
| CMOS     |   |         | water treatment                            |          |  |
| DEF      | The combination of a PMOS (p-type         |         |  | coal lig | uefaction                                  |
| channel  | metal oxide semiconductor) with an        | coal    |  | GS       | phase transformations                      |
|          | (n-type channel metal oxide semicon-      | DEF     | A brown to black combustible sedi-         | 63       |  |
|          | Used for complementary metal oxide        | mentary | y rock (in the geological sense) com-      |          | . liquefaction                             |
|          |   | posed r | principally of consolidated and chemically |          | coal liquefaction                          |
|          | iductors.                                 |         | plant remains.                             | RT       | asphaltenes                                |
| UF       | complementary metal oxide                 | GS      | fuels                                      |          | coal                                       |
|          | semiconductors                            | 93      |  |          | coal derived liquids                       |
| GS       | electronic equipment                      |         | . chemical fuels                           |          | coal gasification                          |
|          | . solid state devices                     |         | hydrocarbon fuels                          |          | <u> </u>                                   |
|          | semiconductor devices                     |         | fossil fuels                               |          | energy policy                              |
|          | metal oxide semiconductors                |         | coal                                       |          | hydrocarbon fuels                          |
|          |   |         | anthracite                                 |          | hydrocracking                              |
|          | CMOS                                      |         |  |          | hydropyrolysis                             |
|          | semiconductors (materials)                |         | lignite                                    |          | lignite                                    |
|          | . metal oxide semiconductors              |         | solvent refined coal                       |          | melting                                    |
|          | CMOS                                      |         | resources                                  |          | solvent refined coal                       |
| RT       | cascode devices                           |         | . Earth resources                          |          | Solvent renned coal                        |
|          | ITO (semiconductors)                      |         | fossil fuels                               |          |  |
|          |   |         | coal                                       | coal uti | ilization                                  |
|          | latch-up                                  |         | anthracite                                 | GS       | utilization                                |
|          |   |         |  | 00       | . coal utilization                         |
|          |   |         | lignite                                    |          |  |
| CN emi   |   |         | solvent refined coal                       | RT       | coal                                       |
| DEF      | Radio waves emitted from incandes-        |         | rocks                                      |          | coal derived gases                         |
| cent das | seous cyanide (CN) in space under low     |         | . sedimentary rocks                        |          | coal derived liquids                       |
|          | es at wavelengths characteristic of the   |         | carbonaceous rocks                         |          | energy consumption                         |
|          | s comprising the gas. Used for cyanide    |         | coal                                       |          | energy policy                              |
| emissio  |   |         | anthracite                                 |          | energy technology                          |
|          |   |         |  |          |  |
| UF       | cyanide emission                          |         | lignite                                    |          | hydrocarbon fuels                          |
| GS       | electromagnetic radiation                 |         | solvent refined coal                       |          | lignite                                    |
|          | . radio waves                             | RT      | ashes                                      |          | solvent refined coal                       |
|          | radio emission                            |         | asphaltenes                                |          |  |
|          | CN emission                               |         | bitumens                                   |          |  |
|          | emission                                  |         | carbonaceous materials                     | coalesc  | ence                                       |
|          |   |         |  | USE      | coalescing                                 |
|          | . radio emission                          |         | coal derived gases                         |          |  |
|          | CN emission                               |         | coal derived liquids                       |          |  |
| RT       | hydrocyanic acid                          |         | coal gasification                          | coalesc  | cing                                       |
|          | millimeter waves                          |         | coal liquefaction                          | DEF      | Growing of grains at the expense of        |
|          | radio sources (astronomy)                 |         | coal utilization                           | the rem  | ainder by adsorption or the growth of a    |
|          | radio sourous (astronomy)                 |         | coke                                       |          | or particle at the expense of the remain-  |
|          |   |         |  |          |  |
|          |   |         | energy policy                              |          | absorption or by reprecipitation. Used for |
| cnoidal  |   |         | fly ash                                    | coalesc  |  |
| DEF      | Finite amplitude progressive waves in     |         | hydropyrolysis                             | UF       | coalescence                                |
| shallow  | water having a wave profile represented   |         | peat                                       | RT       | agglomeration                              |
|          | acobian elliptic function "CN."           |         | regolith                                   |          | agitation                                  |
| RT       | elastic waves                             |         |  |          |  |
| IXI      |   |         | soils                                      |          | coagulation                                |
|          | gravity waves                             |         | strip mining                               |          | concentrating                              |
|          | shallow water                             |         | synthane                                   |          | flocculating                               |
|          | solitary waves                            |         |  |          | magnetic islands                           |
|          | surface waves                             | coal de | erived gases                               |          | mixers                                     |
|          |   |         |  | -        |  |
|          | water depth                               |         | The gases which are derived from vari-     | •        | ∘ separation                               |
|          | water waves                               | ous coa | al gasification processes.                 |          | settling                                   |

|           | thickeners (equipment)                    |          | coastal ranges (CA)                      |          | coatings   |
|-----------|---|----------|--|----------|--|
| 0         | -#  | RT       | California                               |          | corrosion prevention                                 |
| Coanda    | ettect<br>ettachment                      |          | Pacific Ocean                            |          | deposition   |
| IX1 ~     | bubbles                                   | coastal  | water                                    |          | flame plating flame spraying                         |
|           | circulation control airfoils              | GS       | water                                    |          | HVOF thermal spraying                                |
| ~         | effects                                   |          | . nearshore water                        |          | lining processes                                     |
|           | entrainment                               |          | coastal water                            |          | metal finishing                                      |
|           | fluid amplifiers                          | RT       | Coastal Zone Color Scanner               |          | metal spraying                                       |
|           | jet amplifiers                            |          | environment effects                      | ۰        | o metallurgy   |
|           | jet streams (meteorology) reattached flow |          | ocean color scanner oceans               |          | metalorganic chemical vapor                          |
| 00        | separation                                |          | sea water                                |          | deposition optical coatings                          |
|           | thrust augmentation                       |          | shellfish                                |          | plasma spraying                                      |
|           | •   |          | shorelines                               | ۰        | ∘ priming  |
| coarsen   |   |          | vadose water                             |          | sealing  |
| RT        | fineness<br>Control of the control        |          | water depth                              |          | siliconizing   |
|           | Ostwald ripening reflectance              |          | wetlands                                 |          | spraying<br>surface finishing                        |
|           | roughness                                 | Coastal  | Zone Color Scanner                       |          | surface properties                                   |
|           | surface properties                        | DEF      | A spaceborne instrument devoted to       |          | surface treatment                                    |
|           | surface roughness                         |          | surement of ocean color. Every param-    |          | vapor deposition                                     |
|           | surface stability                         |          | optimized for use over water to the      |          |  |
|           | surface temperature                       |          | n of other types of sensing.             | coating  | ie.  |
| coastal   | currents                                  | GS       | scanners . ocean color scanner           |          | Liquid, liquefiable or mastic composi-               |
|           | Ocean currents caused by the ap-          |          | Coastal Zone Color Scanner               |          | nich are converted to a solid protective,            |
|           | of waves to coasts at an angle. They flow | RT       | chlorophylls                             | decorati | ive, or functional adherent film after ap-           |
| parallel  | to and near the shore. Used for littoral  |          | coastal water                            |          | n as a thin layer.                                   |
|           | and longshore currents.                   |          | colorimetry                              | GS       | coatings   |
| UF        | littoral currents                         |          | multispectral band scanners              |          | . antiradar coatings                                 |
| 00        | longshore currents                        |          | ocean data acquisitions systems          |          | . antireflection coatings . cathodic coatings        |
| GS        | circulation . water circulation           |          | oceanography                             |          | . electroplating                                     |
|           | water currents                            |          | oceanography<br>photomapping             |          | . enamels  |
|           | ocean currents                            |          | remote sensing                           |          | . encapsulating                                      |
|           | coastal currents                          |          | remote sensors                           |          | glass coatings                                       |
| RT        | beaches                                   |          | satellite imagery                        |          | . glazes   |
|           | coasts                                    |          | Sea-viewing Wide Field-of-view           |          | . inorganic coatings                                 |
| ~         | currents                                  |          | Sensor                                   |          | anodic coatings ceramic coatings                     |
|           | gyres                                     |          | water color                              |          | . lacquers   |
|           | oceanography oceans                       | coastin  | a flight                                 |          | . magnetic films                                     |
|           | sea truth                                 |          | The flight of a rocket between burnout   |          | . metal coatings                                     |
|           | seas                                      |          | t cutoff of one stage and ignition of    |          | aluminum coatings                                    |
|           | tides                                     |          | or between burnout and summit altitude   |          | . gold coatings                                      |
|           | wetlands                                  |          | num horizontal range.                    |          | nickel coatings                                      |
| 0000401   | dunas                                     | RT       | ascent trajectories                      |          | zinc coatings . metallizing                          |
| coastal ( | dunes                                     |          | ballistic trajectories climbing flight   |          | . paints   |
| UUL       | unies                                     |          | cruising flight                          |          | pressure sensitive paints                            |
| coastal   | ecology                                   |          | descent trajectories                     |          | temperature sensitive paints                         |
| GS        | ecology                                   | ~        | flight                                   |          | . plastic coatings                                   |
|           | . coastal ecology                         |          | midcourse trajectories                   |          | protective coatings                                  |
| RT        | biometeorology                            |          | parabolic flight                         |          | anodic coatings                                      |
|           | coasts Earth resources                    |          | rocket flight                            |          | ceramic coatings primers (coatings)                  |
|           | environment effects                       |          | soaring                                  |          | . refractory coatings                                |
|           | environments                              | coasts   |  |          | . optical coatings                                   |
|           | marine environments                       | DEF      | The strips of land of indefinite width   |          | . rubber coatings                                    |
|           | marine resources                          |          | many kilometers) that extend from the    |          | . sprayed coatings                                   |
|           | oil pollution                             |          | line inland to the first major change in |          | . thermal control coatings                           |
|           | phenology                                 | landform |  |          | . thermochromic coatings                             |
|           | thermal pollution                         | RT       | beaches<br>Caspian Sea                   | RT       | birefringent coatings additives                      |
|           | waterfowl<br>wetlands                     |          | Caspian Sea coastal currents             | IXI      | coating  |
|           | Wollando                                  |          | coastal ecology                          |          | composite materials                                  |
| coastal   | marshlands                                |          | coastal plains                           |          | corrosion  |
| USE       | marshlands                                |          | coral reefs                              |          | corrosion prevention                                 |
|           |   |          | cusps (landforms)                        |          | coverings  |
| coastal   |   |          | dunes                                    |          | cryodeposits   |
| GS        | land                                      |          | estuaries                                |          | deposition   |
|           | . plains                                  |          | lagoons<br>lakes                         |          | deposits<br>diamond films                            |
|           | landforms                                 |          | littoral drift                           |          | dipping  |
|           | . plains                                  |          | marine environments                      |          | electroless deposition                               |
|           | coastal plains                            |          | oceans                                   |          | energy absorption films                              |
| RT        | bars (landforms)                          |          | seas                                     |          | epoxy resins   |
|           | beaches                                   |          | shorelines                               |          | fabrics  |
|           | biometeorology                            |          | storm surges                             | ۰        | o films  |
|           | coasts Earth resources                    |          | tidal flats                              |          | finishes<br>flame spraying                           |
|           | ecology                                   |          | upwelling water                          |          | furan resins   |
|           | environments                              | coating  |  |          | hot corrosion  |
|           | piedmonts                                 | GS       | coating                                  |          | impregnating   |
|           | wetlands                                  |          | . anodizing                              |          | inhibitors   |
|           |   |          | . electroplating                         |          | laminates  |
|           | ranges (CA)                               |          | . encapsulating                          |          | Langmuir-Blodgett films                              |
| GS        | landforms . mountains                     | RT       | . metallizing anodic stripping           | ۰        | <ul> <li>layers</li> <li>lining processes</li> </ul> |
|           | . mountains                               | IXI      | arrodic stripping                        |          | mmig processes                                       |

|           | linings  | cobalt 58  | cobalt 58                                    |
|-----------|--|--|--|
|           | metal films  | cobalt 60  | cobalt 60                                    |
|           | metal finishing  | RT strategic materials   | . nuclides                                   |
|           | metal spraying   | , and the second | isotopes                                     |
| ۰         | metallurgy   | cobalt 58  | cobalt isotopes                              |
|           | moisture resistance  | GS chemical elements   | cobalt 58                                    |
|           | passivity  | . cobalt   | cobalt 60                                    |
|           | pavements  | cobalt isotopes  | metals                                       |
|           | plasma spraying  | cobalt 58  | . transition metals                          |
|           | plasticizers   | . nuclides   | cobalt                                       |
| 0         | o priming  | isotopes   | cobalt isotopes                              |
| -         | protection   | cobalt isotopes  | cobalt 58                                    |
|           | rusting  | cobalt 58  | cobalt 60                                    |
|           | sealers  | radioactive isotopes   | cobait oo                                    |
|           | sealing  | cobalt 58  | cobalt oxalates                              |
|           | ∘ sheets   | metals   | GS cobalt compounds                          |
|           | siliconizing   | . transition metals  | . cobalt oxalates                            |
|           |  | cobalt   | oxalates                                     |
|           | solvents   | cobalt isotopes  | . cobalt oxalates                            |
|           | spraying   | cobalt 18010pes  | . Cobait Oxalates                            |
|           | substrates   | Cobait 30  | cobalt oxides                                |
|           | surface finishing  | cobalt 60  | GS chalcogenides                             |
|           | surface properties   | GS chemical elements   | . oxides                                     |
|           | thin films   |  | metal oxides                                 |
|           | vapor deposition   | . cobalt   | cobalt oxides                                |
|           | veneers  | cobalt isotopes  | cobalt compounds                             |
|           | waterproofing  | cobalt 60  | . cobalt oxides                              |
|           | waxes  | . nuclides   | . Cobait Oxides                              |
|           | weatherproofing  | isotopes   | COBE   |
|           | wings  | cobalt isotopes  |  |
| _         |  | cobalt 60  | USE Cosmic Background Explorer satellite     |
| coaxial   |  | radioactive isotopes   | Satellite                                    |
| DEF       | Waveguides consisting of two concen-   | cobalt 60  | Cobol  |
| tric cond | ductors insulated from each other. Used  | metals   | UF Common Business Oriented                  |
| for coax  | kial transmission.   | . transition metals  |  |
| UF        | coaxial transmission   | cobalt   | Language                                     |
| GS        | transmission lines   | cobalt isotopes  | GS languages                                 |
|           | . communication cables   | cobalt 60  | . programming languages                      |
|           | coaxial cables   |  | Cobol  |
| RT 。      | ∘ cables   | cobalt acetates  | RT FORTRAN                                   |
|           | power lines  | GS acetates  | PL/1   |
|           | submarine cables   | . cobalt acetates  | Cohra Dona (rador)                           |
|           | waveguides   | cobalt compounds   | Cobra Dane (radar)                           |
|           | ŭ  | cobalt acetates  | DEF Radar installation for monitoring Soviet |
| coaxial   | flow   | esters   | missiles.                                    |
| GS        | fluid flow   | . cobalt acetates  | GS radar                                     |
|           | . coaxial flow   |  | . surveillance radar                         |
| RT        | annular flow   | cobalt alloys  | Cobra Dane (radar)                           |
|           | annular nozzles  | GS alloys  | . tracking radar                             |
|           | axial flow   | . cobalt alloys  | Cobra Dane (radar)                           |
|           | axisymmetric flow  | Astroloy (trademark)   | RT antenna arrays                            |
|           | flow geometry  | Rene 41  | early warning systems                        |
|           | Hilsch tubes   | Rene 63  | missile trajectories                         |
|           | shear flow   | Rene 77  | radar signatures                             |
|           | stratified flow  | Rene 95  |  |
|           | two dimensional flow   | RT heat resistant alloys   | Coccomyces                                   |
|           | two differisional flow   | Kovar (trademark)  | GS plants (botany)                           |
| acavial   | nozzles  | Stellite (trademark)   | . fungi                                      |
|           | Class of nozzle configurations in jet  | Waspaloy   | Coccomyces                                   |
|           | for reducing noise.  | vvaspaloy  |  |
|           | o a constant of the constant o | cobalt compounds   | cochannel interference                       |
| RT        | aircraft noise<br>axial flow   | GS cobalt compounds  | (added April 2000)                           |
|           | fluid flow   | . cobalt acetates  | DEF Interference caused by multiple, simul-  |
|           |  | . cobalt fluorides   | taneous transmissions occurring in the same  |
|           | noise reduction  | . cobalt nuorides  | communication channel.                       |
|           | nozzle geometry  |  | GS electromagnetic interference              |
| ۰         | ∘ nozzles  | . cobalt oxides  | . radio frequency interference               |
|           | supersonic nozzles   | . cohenite   | cochannel interference                       |
|           | variable cycle engines   | RT ∞ chemical compounds  | RT channel capacity                          |
|           |  | ∞ Group 8 compounds  | channel noise                                |
|           | plasma accelerators  | ∞ metal compounds  | intersymbolic interference                   |
| GS        | plasma accelerators  | and all flooring   | phase shift keying                           |
|           | . coaxial plasma accelerators  | cobalt fluorides   |  |
| RT •      | accelerators   | GS cobalt compounds  | cochlea                                      |
|           | magnetic nozzles   | cobalt fluorides   | GS anatomy                                   |
|           | plasma engines   | halogen compounds  | . sense organs                               |
|           | plasma guns  | . fluorine compounds   | ear  |
|           |  | fluorides  | labyrinth                                    |
|           | transmission   | metal fluorides  | cochlea                                      |
| USE       | coaxial cables   | cobalt fluorides   | Corti organ                                  |
|           | transmission   | . halides  | 3 <b>3</b>                                   |
|           |  | fluorides  | Cock aircraft                                |
| cobalt    |  | metal fluorides  | USE AN-22 aircraft                           |
| GS        | chemical elements  | cobalt fluorides   |  |
|           | . cobalt   | metal halides  | cockpit assistant systems                    |
|           | cobalt isotopes  | metal fluorides  | (added October 1997)                         |
|           | cobalt 58  | cobalt fluorides   | USE pilot support systems                    |
|           | cobalt 60  |  | 552 Pilot oupport of storing                 |
|           | metals   | cobalt isotopes  | cockpit simulators                           |
|           | . transition metals  | GS chemical elements   | GS simulators                                |
|           | cobalt   | . cobalt   | . training simulators                        |
|           | cobalt isotopes  | cobalt isotopes  | flight simulators                            |

|   | cockpit simulators   |              | multiplexing   |   | concatenated codes   |
|---|--|--------------|--|---|--|
|   | training devices   |              | satellite networks   |   | cryptography   |
|   | . training simulators  |              | switching  |   | data transmission  |
|   | flight simulators  |              | wideband communication   |   | dictionaries   |
| DT  | cockpit simulators   | المسامية     |  |   | digital techniques   |
| RT  | spacecraft cabin simulators training devices   |              | vision multiplexing The separation of two or more simul-   |   | error detection codes identifying  |
|   | virtual reality  |              | radio transmissions over a common  |   | information theory   |
|   | virtual reality  |              | signal coding and bandwidth spreading.   |   | languages  |
| cocknit   | weather information systems  | GS           | transmission   |   | parity   |
|   | ed August 1996)  | 00           | . multiplexing   |   | pulse compression  |
|   | A cockpit display system that provides   |              | code division multiplexing   |   | Reed-Solomon codes   |
|   | ews with a graphical display of interactive  | RT           | data transmission  |   | symbolic programming   |
|   | information, including surface observa-  |              | demultiplexing   |   | symbols  |
|   | rminal forecasts, radar summaries, and   |              | frequency division multiple access   |   | vector quantization  |
|   | strike data. The system also provides  |              | radio communication  |   | Viterbi decoders   |
|   | trend information and has zooming  |              | radio transmission   |   |  |
|   | ties that enable the user to see informa-  |              | satellite transmission   | UF  | ent of friction<br>friction coefficient  |
| areas.  | the entire nation or to focus on specific  |              | signal transmission  | GS  | coefficients   |
| GS  | information systems  |              | telecommunication  | 00  | . coefficient of friction  |
| 00  | . cockpit weather information  |              | wavelength division multiplexing   |   | surface properties   |
|   | systems  | coders       |  |   | . coefficient of friction  |
| RT  | airborne equipment   | UF           | encoders   | RT  | friction   |
|   | cockpits   | RT           | analog to digital converters   |   | friction factor  |
|   | display devices  |              | coding   |   | friction reduction   |
|   | flight conditions  |              | decoders   |   | kinetic friction   |
|   | flight instruments   |              | programmers  |   | sliding friction   |
|   | meteorological parameters  |              |  |   | static friction  |
|   | weather forecasting  | codes        |  |   | wear resistance  |
| !!  | _  | SN           | (USE OF A MORE SPECIFIC TERM IS  |   |  |
| cockpits<br>RT  |  |              | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   | coeffici<br>GS                                  | coefficients   |
| KI  | aircraft compartments cabin atmospheres  | RT           | BCH codes  | 63  | . accommodation coefficient  |
| ~   | cabins cabins  |              | binary codes   |   | . aerodynamic coefficients   |
|   | canopies   |              | biternary code   |   | . attenuation coefficients   |
|   | cockpit weather information systems  |              | coding   |   | . binomial coefficients  |
|   | ejection seats   |              | color coding   |   | . Clebsch-Gordan coefficients  |
|   | flying ejection seats  |              | concatenated codes   |   | . coefficient of friction  |
|   | fuselages  |              | cryptography   |   | . coherence coefficient  |
|   | pilot support systems  |              | digits   |   | . correlation coefficients   |
|   | pressurized cabins   |              | error correcting codes   |   | . coupling coefficients  |
|   | space capsules   |              | error detection codes  |   | . diffusion coefficient  |
|   | spacecraft cabin atmospheres   |              | Morse code<br>Reed-Solomon codes   |   | . Soret coefficient  |
|   | spacecraft cabins  |              | standards  |   | . flow coefficients  |
|   | windshields  |              | symbols  |   | . discharge coefficient  |
| cockroa   | aches  |              | trellis coding   |   | . heat transfer coefficients   |
| UF  | Blattidae  |              | a cine coanig  |   | hydrodynamic coefficients     influence coefficient  |
|   |  | a a alta a   |  |   | structural influence coefficients  |
|   | animale  | coaina       |  |   |  |
| GS  | animals<br>invertebrates   | coding<br>UF | encoding   |   | ionization coefficients  |
|   | . invertebrates  |              | encoding<br>notation   |   | . ionization coefficients<br>. nozzle thrust coefficients  |
|   | . invertebrates arthropods   |              |  |   | . nozzle thrust coefficients   |
|   | . invertebrates  | UF           | notation   |   |  |
|   | . invertebrates arthropods insects   | UF           | notation coding . decoding . redundancy encoding   |   | . nozzle thrust coefficients . Onsager phenomenological  |
|   | . invertebrates arthropods insects   | UF           | notation coding . decoding . redundancy encoding . signal encoding   |   | nozzle thrust coefficients     Onsager phenomenological coefficient  |
| GS  | . invertebrates arthropods insects   | UF           | notation coding . decoding . redundancy encoding . signal encoding . amplitude modulation  |   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient  |
| GS  cocks  UF   | . invertebrates arthropods insects cockroaches  stopcocks valves   | UF           | notation coding . decoding . redundancy encoding . signal encoding . amplitude modulation quadrature amplitude modulation  |   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients  |
| GS<br>cocks<br>UF<br>GS   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks   | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation frequency modulation   |   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient   |
| GS  cocks  UF   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation   | RT∝   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient constant  |
| GS<br>cocks<br>UF<br>GS   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks   | UF           | notation coding . decoding . redundancy encoding . signal encoding . amplitude modulation quadrature amplitude modulation . frequency modulation feedback frequency modulation FM/PM (modulation)  | RT∘   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient     constant     constants  |
| cocks<br>UF<br>GS<br>RT   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment  | UF           | notation coding decoding leading leadi | RT∝   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient     constant     constants     mechanical properties  |
| COCKS UF GS RT  | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks)   | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation   | RT∘   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient constant constants mechanical properties optical properties   |
| COCKS UF GS RT  | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment  | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation phase modulation  | RT∘   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient     constant     constants     mechanical properties     polynomials  |
| COCKS UF GS RT  | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment  racks) crack opening displacement   | UF           | notation coding decoding decoding signal encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation phase modulation FM/PM (modulation)   | RT∘   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties optical properties polynomials Racah coefficient  |
| COCKS UF GS RT  COD (co   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment  racks) crack opening displacement   | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation phase modulation  |   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties polynomials Racah coefficient statistical analysis  |
| COCKS UF GS RT  COD (co   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation phase modulation phase shift keying phase shift keying   |   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties optical properties polynomials Racah coefficient  |
| COCKS UF GS RT  COD (ct USE  COD air USE  | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation FM/PM (modulation) bhase modulation FM/PM (modulation) binase shift keying binary phase shift keying   |   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient     constant     constant     mechanical properties     optical properties     polynomials     Racah coefficient     statistical analysis     weight  |
| cocks UF GS RT  COD (cl USE  COD air USE  code di   | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement  | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation phase modulation FM/PM (modulation) phase shift keying binary phase shift keying binary phase shift keying understandard quadrature phase shift keying   | coenzyi   | nozzle thrust coefficients     Onsager phenomenological coefficient     recombination coefficient     regression coefficients     scattering coefficients     virial coefficients     Wigner coefficient     constant     constant     mechanical properties     optical properties     polynomials     Racah coefficient     statistical analysis     weight  |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg                                     | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement reraft C-2 aircraft vision multiple access Multiple access system in which users regated by means of pseudorandom  | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation phase modulation frequency shift keying pulse frequency modulation phase shift keying phase shift keying decode modulation plase shift keying decode modulation pulse amplitude modulation pulse amplitude modulation pulse code modulation  | coenzyi   | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficient regression coefficients scattering coefficients virial coefficients Wigner coefficient constant constant mechanical properties optical properties optical properties polynomials Racah coefficient statistical analysis weight   |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal cr                           | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft Vision multiple access Multiple access system in which users iregated by means of pseudorandom oding and bandwidth spreading so that  | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation phase modulation FM/PM (modulation) phase shift keying dudrature phase shift keying pulse modulation pulse amplitude modulation pulse code modulation pulse code modulation delta modulation  | coenzyi   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate   |
| COCKS UF GS RT  COD (ct USE  COD air USE  code di DEF asignal cc the com                          | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft vision multiple access Multiple access system in which users iregated by means of pseudorandom oding and bandwidth spreading so that iplete time and frequency axes are oc-   | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation FM/PM (modulation) hase modulation function quadrature phase shift keying quadrature phase shift keying pulse modulation pulse amplitude modulation pulse code modulation delta modulation delta modulation differential pulse code  | coenzyi   | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficient regression coefficients scattering coefficients virial coefficients Wigner coefficient constant constant reconstant properties optical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds coenzymes adenosine diphosphate adenosine triphosphate   |
| COCKS UF GS RT  COD (cl USE  COD air USE  code di DEF are seg signal co the com cupied a          | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft Vision multiple access Multiple access system in which users iregated by means of pseudorandom oding and bandwidth spreading so that  | UF           | notation coding decoding leading leadi | coenzyi   | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficient regression coefficients scattering coefficients virial coefficients Wigner coefficient constant constant poperties optical properties optical propertie |
| COCKS UF GS RT COD (cr USE COD air USE code di DEF are seg signal cr the com cupied a cDMA.       | invertebrates arthropods insects cocks stopcocks valves gas valves hydraulic equipment crack opening displacement craft C-2 aircraft vision multiple access Multiple access system in which users pregated by means of pseudorandom oding and bandwidth spreading so that uplete time and frequency axes are ocand only the power is shared. Used for  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation frequency shift keying pulse frequency modulation phase shift keying phase shift keying quadrature phase shift keying pulse modulation pulse amplitude modulation pulse code modulation delta modulation differential pulse code modulation pulse frequency modulation pulse frequency modulation  | coenzyi   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione   |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft vision multiple access Multiple access Multiple access system in which users pregated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA   | UF           | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation finally fin | coenzyi<br>GS                                   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constant mechanical properties optical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione . thiamine  |
| COCKS UF GS RT COD (cr USE COD air USE code di DEF are seg signal cr the com cupied a cDMA.       | invertebrates arthropods insects cocks valves cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft vision multiple access Multiple access system in which users gregated by means of pseudorandom oding and bandwidth spreading so that iplete time and frequency axes are ocand only the power is shared. Used for CDMA telecommunication  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation hase modulation FM/PM (modulation) phase shift keying ubiase shift keying pulse shift keying upiase shift keying upiase shift keying upiase modulation pulse modulation upulse amplitude modulation delta modulation delta modulation udifferential pulse code modulation upulse time modulation   | coenzyi   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione   |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | . invertebrates . arthropods insects cockroaches  stopcocks valves . cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft  vision multiple access Multiple access system in which users gregated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication . multiple access  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation flag frequency modulation phase shift keying uphase shift keying pulse shift keying upulse modulation pulse amplitude modulation pulse amplitude modulation delta modulation differential pulse code modulation pulse frequency modulation pulse time modulation pulse position modulation  | coenzyi<br>GS                                   | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficient regression coefficients scattering coefficients virial coefficients Wigner coefficient constant constant mechanical properties optical properties optic |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | . invertebrates . arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement craft C-2 aircraft vision multiple access Multiple access system in which users regated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication . multiple access code division multiple access  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation phase shift keying dudrature phase shift keying pulse modulation pulse amplitude modulation pulse amplitude modulation delta modulation differential pulse code modulation pulse frequency modulation pulse time modulation pulse duration modulation pulse duration modulation pulse duration modulation pulse position modulation pulse position modulation trellis coding   | coenzyi<br>GS<br>RT<br>coerciv                  | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione . thiamine enzymes  ity   |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement racks  wision multiple access Multiple access system in which users regated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication  | UF           | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation flag frequency modulation phase shift keying uphase shift keying pulse shift keying upulse modulation pulse amplitude modulation pulse amplitude modulation delta modulation differential pulse code modulation pulse frequency modulation pulse time modulation pulse position modulation  | coenzyi<br>GS                                   | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . virial coefficients . Wigner coefficients . Wigner coefficient constant constant mechanical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione . thiamine enzymes  itty magnetic properties   |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | . invertebrates . arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement craft C-2 aircraft vision multiple access Multiple access system in which users regated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication . multiple access code division multiple access  | UF<br>GS     | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation FM/PM (modulation) frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation frequency shift keying pulse frequency modulation phase shift keying phase shift keying quadrature phase shift keying pulse modulation pulse amplitude modulation pulse amplitude modulation delta modulation delta modulation differential pulse code modulation pulse frequency modulation pulse time modulation pulse time modulation pulse duration modulation pulse position modulation trellis coding Wiswesser notations   | coenzyi<br>GS<br>RT<br>coerciv                  | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constants mechanical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione . thiamine enzymes  ity   |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cocks valves cocks gas valves hydraulic equipment racks) crack opening displacement racks wision multiple access Multiple access system in which users regated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication radio relay systems  | UF<br>GS     | notation coding decoding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation fructure fru | coenzyi<br>GS<br>RT<br>coerciv                  | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficients scattering coefficients virial coefficients Wigner coefficient constant constants mechanical properties optical properties coenzymes adenosine diphosphate coenzymes denosine diphosphate cyclic AMP glutathione thiamine enzymes ity magnetic properties magnetization  |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft vision multiple access Multiple access system in which users regated by means of pseudorandom oding and bandwidth spreading so that uplete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication . radio relay systems code division multiple access   | UF<br>GS     | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation hase modulation function phase shift keying duadrature phase shift keying pulse modulation pulse amplitude modulation delta modulation delta modulation delta modulation delta modulation delta modulation pulse frequency modulation pulse time modulation pulse time modulation pulse code modulation pulse frequency modulation pulse frequency modulation pulse frequency modulation pulse soding Wiswesser notations abbreviations   | coenzyi<br>GS<br>RT<br>coerciv<br>RT            | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficients scattering coefficients virial coefficients Wigner coefficient constant constants mechanical properties optical properties coenzymes adenosine diphosphate coenzymes denosine diphosphate cyclic AMP glutathione thiamine enzymes ity magnetic properties magnetization  |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement racks) crack opening displacement racks wision multiple access Multiple access Multiple access system in which users pregated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication radio relay systems code division multiple access transmission signal transmission data transmission   | UF<br>GS     | notation  coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation phase shift keying decode modulation pluse amplitude modulation pulse amplitude modulation pulse amplitude modulation delta modulation delta modulation delta modulation pulse frequency modulation pulse frequency modulation pulse time modulation pulse time modulation pulse time modulation pulse duration modulation trellis coding Wiswesser notations abdreviations addressing alphabets analog to digital converters BCH codes   | coenzyi<br>GS<br>RT<br>coerciv<br>RT<br>coesite | nozzle thrust coefficients Onsager phenomenological coefficient recombination coefficient regression coefficients scattering coefficients virial coefficients Constant constant constant constants mechanical properties optical properties organic compounds coenzymes adenosine diphosphate adenosine triphosphate cyclic AMP glutathione thiamine enzymes ity magnetic properties magnetization  A polymorph of silicon dioxide. chalcogenides  |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft vision multiple access Multiple access system in which users regated by means of pseudorandom oding and bandwidth spreading so that uplete time and frequency axes are ocand only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication radio relay systems code division multiple access transmission signal transmission data transmission multiple access multiple access  | UF<br>GS     | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation feedback frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation hase modulation function phase shift keying duadrature phase shift keying pulse modulation pulse amplitude modulation delta modulation pulse time modulation delta modulation pulse time modulation delta modulation de | coenzyi<br>GS<br>RT<br>coerciv<br>RT<br>coesite | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constant mechanical properties optical properties acan coefficient statistical analysis oveight  mes organic compounds . coenzymes . adenosine diphosphate . cyclic AMP . glutathione . thiamine enzymes ity magnetic properties magnetization  A polymorph of silicon dioxide. chalcogenides . oxides   |
| COCKS UF GS RT COD (cl USE COD air USE code di DEF are seg signal cu the com cupied a CDMA. UF GS | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft  vision multiple access Multiple access system in which users pregated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication radio relay systems code division multiple access transmission data transmission data transmission multiple access code division multiple access code division multiple access   | UF<br>GS     | notation coding decoding decoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation hase modulation hase shift keying uquadrature phase shift keying pulse modulation pulse amplitude modulation delta modulation delta modulation pulse code modulation differential pulse code modulation pulse frequency modulation pulse frequency modulation pulse time modulation pulse frequency modulation pulse time modulation pulse frequency modulation pulse position modulation pulse position modulation trellis coding Wiswesser notations abbreviations addressing alphabets analog to digital converters BCH codes   | coenzyi<br>GS<br>RT<br>coerciv<br>RT<br>coesite | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constant mechanical properties optical properties optical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . adenosine triphosphate . cyclic AMP . glutathione . thiamine enzymes  ity magnetic properties magnetization  A polymorph of silicon dioxide. chalcogenides . oxides . dioxides  |
| COCKS UF GS RT  COD (cr USE  COD air USE  code di DEF are seg signal co the com cupied a CDMA. UF | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment reacks) crack opening displacement react craft C-2 aircraft  vision multiple access Multiple access system in which users gregated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication radio relay systems code division multiple access transmission data transmission multiple access code division multiple access code division multiple access transmission multiple access code division multiple access code division multiple access code division multiple access code division multiple access | UF<br>GS     | notation coding decoding redundancy encoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation phase modulation frequency shift keying pulse frequency modulation phase shift keying decode modulation pulse amplitude modulation pulse amplitude modulation delta modulation delta modulation differential pulse code modulation pulse time modulation pulse duration modulation pulse duration modulation pulse position modulation trellis coding Wiswesser notations abbreviations addressing alphabets analog to digital converters BCH codes codes color coding  | coenzyi<br>GS<br>RT<br>coerciv<br>RT<br>coesite | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . virial coefficients . Wigner coefficients . Wigner coefficient constant constants mechanical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . adenosine triphosphate . cyclic AMP . glutathione . thiamine enzymes  ity magnetic properties magnetization  A polymorph of silicon dioxide chalcogenides . oxides . dioxides silicon dioxide   |
| COCKS UF GS RT COD (cl USE COD air USE code di DEF are seg signal cu the com cupied a CDMA. UF GS | invertebrates arthropods insects cockroaches  stopcocks valves cocks gas valves hydraulic equipment racks) crack opening displacement recraft C-2 aircraft  vision multiple access Multiple access system in which users pregated by means of pseudorandom oding and bandwidth spreading so that plete time and frequency axes are oc- and only the power is shared. Used for  CDMA telecommunication multiple access code division multiple access radio communication radio relay systems code division multiple access transmission data transmission data transmission multiple access code division multiple access code division multiple access   | UF<br>GS     | notation coding decoding decoding signal encoding amplitude modulation quadrature amplitude modulation frequency modulation frequency modulation frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation frequency shift keying pulse frequency modulation hase modulation hase shift keying uquadrature phase shift keying pulse modulation pulse amplitude modulation delta modulation delta modulation pulse code modulation differential pulse code modulation pulse frequency modulation pulse frequency modulation pulse time modulation pulse frequency modulation pulse time modulation pulse frequency modulation pulse position modulation pulse position modulation trellis coding Wiswesser notations abbreviations addressing alphabets analog to digital converters BCH codes   | coenzyi<br>GS<br>RT<br>coerciv<br>RT<br>coesite | . nozzle thrust coefficients . Onsager phenomenological coefficient . recombination coefficient . regression coefficients . scattering coefficients . virial coefficients . Wigner coefficient constant constant mechanical properties optical properties optical properties optical properties polynomials Racah coefficient statistical analysis weight  mes organic compounds . coenzymes . adenosine diphosphate . adenosine triphosphate . cyclic AMP . glutathione . thiamine enzymes  ity magnetic properties magnetization  A polymorph of silicon dioxide. chalcogenides . oxides . dioxides  |

|               | silicon oxides  | RT coherent radiation   | rare gas-halide lasers   |
|---------------|---|---|--|
|               | silicon dioxide   | coherent scattering   | scatter plates (optics)  |
|               | quartz  | cohesion  | Shiva laser system   |
|               | coesite   | congruences   | speckle holography   |
|               | minerals  | elastic scattering  | squeezed states (quantum theory)   |
|               | . quartz  | intelligibility   | stimulated emission  |
|               | coesite   | laser outputs   | two-wavelength lasers  |
|               | silicon compounds   | lasers  | ultraviolet lasers   |
|               | . silicon oxides  | maser outputs   |  |
|               | silicon dioxide   | phase coherence   | coherent radar   |
|               | quartz  | wave dispersion   | DEF A type of radar that employs circuitry   |
|               | coesite   | wave propagation  | which permits comparison of the phase of suc-  |
| RT            | Earth crust   | · · ·   | cessive received target signals.   |
|               | Earth mantle  | coherence coefficient   | GS radar   |
|               | meteorites  | GS coefficients   | . coherent radar   |
|               | rutile  | . coherence coefficient   | RT coherence coefficient   |
|               | stishovite  | RT coherent radar   | continuous wave radar  |
|               | stony meteorites  | coherent radiation  | Doppler radar  |
|               | tektites  | ∞ interference  | moving target indicators<br>pulse Doppler radar  |
|               |   | noise propagation   | pulse radar  |
| coffee        | ,   | phase coherence   | radar detection  |
| GS            | farm crops  | stochastic processes  | search radar   |
|               | coffee  | bttili-ti   | surveillance radar   |
| RT            | beverages   | coherent acoustic radiation   | tracking radar   |
| Coffin-I      | Manson law  | GS coherent radiation   | tracking radar   |
|               |   | . coherent acoustic radiation   | coherent radiation   |
|               | A relationship which enables one to<br>the fatigue life from the cyclic plastic   | elastic waves   | UF coherent sources  |
|               | inge. The specific life for a given metal or  | . <b>coherent acoustic radiation</b><br>RT ∞ radiation  | coherent transmission  |
|               | determined by its tensile ductility.  | ultrasonic radiation  | GS coherent radiation  |
|               | laws  | underwater acoustics  | <ul> <li>coherent acoustic radiation</li> </ul>  |
| GS            | . Coffin-Manson law   | underwater acoustics  | <ul> <li>coherent electromagnetic radiation</li> </ul>   |
| RT            | crack propagation   | coherent anti-Stokes Raman spectroscopy   | coherent light   |
| IXI           | fatique life  | USE Raman spectroscopy  | laser beams  |
|               | fatigue tests   | OOL Raman spectroscopy  | RT beams (radiation)   |
|               | metal fatigue   | coherent electromagnetic radiation  | ∞ coherence  |
|               | motal languo  | GS coherent radiation   | coherence coefficient  |
| cogene        | ration  | . coherent electromagnetic  | continuous radiation   |
|               | The generation of electricity or shaft  | radiation   | corpuscular radiation  |
|               | y an energy conversion system and the   | coherent light  | elastic waves  |
|               | ent use of the rejected thermal energy  | laser beams   | electromagnetic radiation  |
| from th       | e conversion system as an auxiliary   | electromagnetic radiation   | light (visible radiation)  |
| energy        |   | . coherent electromagnetic  | optical properties   |
| RŤ            | electric generators   | radiation   | ∞ radiation  |
|               | electric power plants   | coherent light  | ∞ rays   |
|               | energy conversion   | laser beams   | wave propagation   |
| ۰             | o generation  | RT beams (radiation)  | coherent scattering  |
|               | heat generation   | holography  | DEF Scattering of photons or particles in  |
| ۰             | opower plants   | infrared radiation  | which there are define phase relationships be-   |
|               | solar energy conversion   | interstellar masers   | tween the incoming and scattered waves. Ordi-  |
|               | thermal energy  | ionizing radiation  | nary scattering is coherent. With coherent scat-   |
|               | waste energy utilization  | krypton fluoride lasers   | tering, interference occurs between the waves  |
|               |   | lasers  | scattered by two or more scattering centers. The   |
| cognitio      |   | light (visible radiation)   | total intensity is the vector sum of the amplitudes  |
| RT            | artificial intelligence   | masers  | of the various waves.  |
|               | cognitive psychology  | modulated continuous radiation  | GS scattering  |
|               | decision making   | monochromatic radiation   | . coherent scattering  |
|               | identifying   | ∞ radiation   | RT ∞ coherence   |
|               | IFF systems (identification) information processing (biology)   | radio waves   | Compton effect   |
|               | knowledge representation  | squeezed states (quantum theory)  | elastic scattering   |
|               | perception  | stimulated emission   | incoherent scattering  |
|               | perception  | stimulated emission devices   | inelastic scattering   |
| coaniti       | ve psychology   | traveling wave masers<br>ultraviolet radiation  | nuclear scattering   |
| GS            | psychology  | ultraviolet radiation   | coherent sources   |
|               | . cognitive psychology  | coherent light  | USE coherent radiation   |
| RT            | cognition   | DEF Light in which the phase relationship   | radiation sources  |
|               | information processing (biology)  | between points in a beam remains constant   |  |
|               | intelligence  | throughout the beam.  | coherent transmission  |
|               | mental performance  | GS coherent radiation   | USE coherent radiation   |
|               |   | . coherent electromagnetic radiation  | cohesion   |
|               | (programming language)  | coherent light  | DEF The mutual attraction by which ele-  |
| UF            | coordinate geometry language  | electromagnetic radiation   | ments of a substance are held together.  |
| GS            | languages   | . coherent electromagnetic radiation  | RT agglutination   |
|               | . programming languages   | coherent light  | bonding  |
|               |   |   |  |
|               | COGO (programming language)   | . light (visible radiation)   | ∞ coherence  |
|               |   | . light (visible radiation) coherent light  | internal friction  |
| cohenit       | e   |   | internal friction internal pressure  |
| cohenit<br>GS | e cobalt compounds  | <b>coherent light</b><br>RT four-wave mixing<br>gamma ray lasers  | internal friction<br>internal pressure<br>plastic properties   |
|               | cobalt compounds  | <b>coherent light</b> RT four-wave mixing gamma ray lasers HCN lasers   | internal friction internal pressure  |
|               | ce<br>cobalt compounds<br>. cohenite<br>iron compounds  | <b>coherent light</b><br>RT four-wave mixing<br>gamma ray lasers  | internal friction<br>internal pressure<br>plastic properties<br>spreading  |
|               | ce cobalt compounds cohenite iron compounds cohenite  | coherent light RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography  | internal friction internal pressure plastic properties spreading cohomology  |
|               | cobalt compounds . cohenite iron compounds . cohenite minerals  | coherent light RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry   | internal friction internal pressure plastic properties spreading  cohomology USE homology  |
|               | cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite   | coherent light RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers   | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers)   |
|               | ce cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite nickel compounds   | coherent light RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers monochromatic radiation   | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers) (added August 1997)   |
|               | cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite   | coherent light RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers monochromatic radiation neodymium lasers  | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers)   |
| GS            | cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite nickel compounds . cohenite   | coherent light RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers monochromatic radiation neodymium lasers optical computers  | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers) (added August 1997) USE chemical oxygen-iodine lasers   |
| GS            | cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite nickel compounds . cohenite   | coherent light  RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers monochromatic radiation neodymium lasers optical computers optical memory (data storage)                 | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers) (added August 1997) USE chemical oxygen-iodine lasers  ∞ coils  |
| GS            | cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite nickel compounds . cohenite (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS | coherent light  RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers monochromatic radiation neodymium lasers optical computers optical memory (data storage) phase coherence | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers) (added August 1997) USE chemical oxygen-iodine lasers  ∞ coils  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
| GS            | cobalt compounds . cohenite iron compounds . cohenite minerals . cohenite nickel compounds . cohenite   | coherent light  RT four-wave mixing gamma ray lasers HCN lasers holographic interferometry holography laser outputs lasers monochromatic radiation neodymium lasers optical computers optical memory (data storage)                 | internal friction internal pressure plastic properties spreading  cohomology USE homology  COIL (lasers) (added August 1997) USE chemical oxygen-iodine lasers  ∞ coils  |

| RT       | electric coils   |                | carbonaceous meteorites  |                      | TEMPERATURES EXCLUDES                                      |
|----------|--|----------------|--|----------------------|--|
|          | inductors  |                | carbonaceous chondrites  |                      | PRECIPITATION HARDENING AT OR<br>NEAR ROOM TEMPERATURE AND |
|          | magnet coils magnetic coils  |                | Cold Bokkeveld meteorite chondrites  | GS                   | HARDENING VIA COLD WORKING) hardening (materials)          |
|          | springs (elastic)  |                | carbonaceous chondrites  | 00                   | . cold hardening   |
|          | toroids  |                | Cold Bokkeveld meteorite   | RT                   | brittleness  |
|          | wire   | cold ca        | athode tubes   |                      | hardness phase transformations                             |
| COIN a   |  | DEF            | Electron tubes containing cold cath-   |                      | precipitation hardening                                    |
| UF       | counterinsurgency aircraft<br>LARA aircraft                                  | odes.<br>GS    | electron tubes   |                      | work hardening   |
|          | light armed reconnaissance aircraft  | 00             | . cold cathode tubes   | cold ne              | eutrons  |
| GS       | attack aircraft  |                | phototubes   |                      | Neutrons of less velocity than thermal                     |
|          | . COIN aircraft F-5 aircraft   |                | photomultiplier tubes frequency modulation   | neutror<br>01 eV.    | ns; at 152 deg. C their energy is below 0.                 |
|          | OV-10 aircraft   |                | photomultipliers   | GS                   | particles  |
| RT ∘     | ∘ aircraft   | RT             | cathodes   |                      | . elementary particles                                     |
|          | light intratheater transport   |                | electrodes<br>gas discharges   |                      | fermions<br>neutrons                                       |
| coincid  | ence circuits  |                | ∞ gas tubes  |                      | cold neutrons  |
|          | Circuits that produce a usable output  |                | tube cathodes  |                      | . neutral particles  |
|          | en each of two or more input circuits pulses simultaneously or within an as- |                | tunnel cathodes  |                      | neutrons<br>cold neutrons                                  |
|          | e time interval.   | cold ca        | athodes  | RT                   | baryons  |
| ĞS       | circuits   |                | Cathodes that function without the ap-   |                      | •  |
| RT       | . coincidence circuits anticoincidence detectors                             | GS             | n of heat.<br>electrodes   | <b>cold pl</b><br>UF | low temperature plasmas                                    |
| 1(1      | gates (circuits)   |                | . cathodes   | GS                   | particles  |
|          | radiation counters   |                | tube cathodes  |                      | charged particles  |
|          | synchronism  | RT             | cold cathodes<br>gas discharges  |                      | energetic particles  |
| coining  |  | 1(1            | tunnel cathodes  |                      | plasmas (physics)<br><b>cold plasmas</b>                   |
| GS       | forming techniques   | الماما المام   | and a  |                      | . corpuscular radiation                                    |
|          | . pressing (forming)   | cold di        | Reducing the cross section (of wire) by  |                      | energetic particles  |
|          | coining<br>metal working   |                | through a die or dies, at a temperature  |                      | plasmas (physics)<br><b>cold plasmas</b>                   |
|          | . coining  | lower th       | nan the recrystallization temperature.   | RT                   | collisionless plasmas                                      |
| RT       | cold pressing  | RT             | deep drawing   |                      | rarefied plasmas   |
|          | cold working dies  | ,              | ∞ drawing<br>metal drawing   | cold pi              | ressing  |
|          | forging  |                | , and the second | RT                   | coining  |
|          | hot isostatic pressing   | cold flo       | ow tests (EXCLUDES MECHANICAL CREEP,   |                      | compacting   |
|          | hot pressing   | SIN            | TESTS)   |                      | hot isostatic pressing                                     |
|          | sizing (shaping)<br>stamping   | DEF            | Tests of liquid rockets without firing   |                      | hot pressing<br>metal working                              |
|          | 7 3  |                | o check or verify the efficiency of a ion subsystem, providing for the condi-  |                      | ∞ pressing   |
| coke     | fuele  |                | and flow of propellants (including tank  |                      | pressing (forming)   |
| GS       | fuels<br>. coke  |                | ization, propellant loading, and propel-   |                      | upsetting  |
| RT       | bitumens   | lant fee<br>GS | engine tests   | cold ro              | olling   |
|          | carbon   | 00             | . cold flow tests  | GS                   | forming techniques   |
|          | charcoal<br>coal   |                | ground tests   |                      | . cold working cold rolling                                |
|          | lignite  | RT             | . cold flow tests<br>checkout  | RT                   | metal working  |
|          |  | IXI            | feed systems   |                      |  |
| Coke ai  | rcraft AN-24 aircraft  |                | plastic properties   | cold st<br>GS        | rength<br>mechanical properties                            |
| OOL      | AN-24 dilotati   |                | prelaunch tests  | 00                   | . cold strength  |
| colchic  |  |                | propellant tests propulsion system performance   | RT                   | high temperature tests                                     |
| GS       | bases (chemical) . alkaloids   |                | rocket engine design   |                      | low temperature environments                               |
|          | colchicine   |                | static tests   |                      | low temperature tests<br>∞ strength                        |
|          | nitrogen compounds   | •              | ∞ tests  |                      | ŭ  |
|          | . alkaloids  | cold for       | rming  | cold su              |  |
|          | colchicine organic compounds   | USE            | cold working   | RT                   | cold walls cryogenic fluid storage                         |
|          | . cyclic compounds   | cold fr        | onts   |                      | ∞ surfaces   |
|          | cyclic hydrocarbons  | GS             | fronts (meteorology)   |                      |  |
|          | colchicine heterocyclic compounds  |                | . cold fronts  | cold to<br>GS        | vlerance<br>tolerances (physiology)                        |
|          | alkaloids  | RT             | air masses<br>∞ fronts   | 00                   | . cold tolerance   |
|          | colchicine   | ,              | meteorological parameters  | RT                   | body temperature   |
|          | . hydrocarbons   |                | meteorology  |                      | exposure<br>frostbite                                      |
|          | cyclic hydrocarbons colchicine   |                | storms   |                      | heat tolerance   |
|          |  |                | synoptic meteorology thunderstorms   |                      | homeostasis  |
|          | climatization  |                | tornadoes  |                      | subzero temperature  |
| GS       | adaptation . acclimatization   |                | warm fronts  |                      | thermoregulation vasoconstriction                          |
|          | cold acclimatization   |                | weather forecasting  |                      |  |
| RT       | heat acclimatization   | cold ga        | as   | cold tra             |  |
|          | subzero temperature  | GS             | gases  | GS                   | traps  |
| cold blo | oded animals   | RT             | . cold gas   | RT                   | . cold traps<br>condensers (liquefiers)                    |
| USE      | poikilothermia   | KI             | attitude control<br>gas jets   |                      | cryogenic temperature                                      |
| 0.1      | aldered described as the second  |                | jet thrust   |                      | cryogenics   |
| GS GS    | okkeveld meteorite<br>celestial bodies                                       | اللما          | ordonina   |                      | cryotrapping<br>freezing                                   |
|          | . meteorites   | cold ha        | ardening<br>(LIMITED TO HARDENING OF   |                      | refrigerating  |
|          | stony meteorites   | 0.1            | MATERIALS BY COOLING TO VERY LOW   |                      | vacuum apparatus   |
|          |  |                |  |                      |  |

| vapor traps  | leather   | collisions   |
|--|---|--|
|  | proteins  | flight paths   |
| cold walls USE cold surfaces   | skin (anatomy)  | flight rules<br>flight safety  |
| walls  | collapse  | midair collisions  |
|  | GS collapse   | National Airspace Utilization System   |
| cold water   | . gravitational collapse  | radar  |
| GS water   | RT buckling   | radar navigation   |
| . cold water   | deformation   | radio navigation   |
| RT potable water   | failure   | runway incursions  |
| cold weather   | structural failure  | threat evaluation<br>traffic control   |
| GS weather   | collating   | visual flight  |
| . cold weather   | RT binding  | warning  |
| RT frost damage  | compilers   | warning systems  |
| low temperature environments   | correlation   | 3 2,2 2  |
| pressure ice   | insertion   | collision parameters   |
| snow cover   | position (location)   | DEF In orbit computation, the distances be   |
| subzero temperature  | positioning   | tween centers of attraction of central force field   |
| weatherproofing<br>winter  | collection  | and the extension of velocity vectors of moving  |
| willer   | RT accumulations  | objects at great distances from the centers. I gas dynamics and atomic physics, any of sev   |
| cold weather tests   | acquisition   | eral parameters such as cross section, collisio  |
| GS environmental tests   | assembling  | rate, mean free path, etc., which provide  |
| . cold weather tests   | input   | measure of the probability of collision.   |
| RT high temperature tests  | lumping   | GS collision parameters  |
| low temperature tests  | museums   | . collision rates  |
| ∞ tests  | ∞ receiving   | RT ∞ absorption  |
| cold wolding   | sampling  | beam interactions  |
| cold welding   | selection   | ∞ cross sections   |
| GS welding . pressure welding  | stockpiling   | mean free path   |
| cold welding   | collectors  | nuclear interactions   |
| RT adhesion  | USE accumulators  | particle interactions particle theory  |
| bonding  |   | scattering   |
| high vacuum  | colleges  | ooditoring   |
| vacuum effects   | USE universities  | collision rates  |
|  |   | DEF Ratios defined by the average number   |
| cold working   | collimation   | of collisions per second suffered by a molecul   |
| DEF Deforming metal plasticity at a tem-<br>perature lower than the recrystallization tem-   | GS collimation . beamforming  | or other particle moving through a gas.  |
| perature. Used for cold forming.   | RT adjusting  | GS collision parameters  |
| UF cold forming  | alignment   | . collision rates<br>rates (per time)  |
| GS forming techniques  | beam steering   | . collision rates  |
| cold working   | directivity   | . comsion rates  |
| cold rolling   | four-wave mixing  | collision warning devices  |
| . electrohydraulic forming   | microbeams  | USE collision avoidance  |
| explosive forming  | ∞ orientation   | warning systems  |
| RT cladding  | polarization (waves)  |  |
| coining<br>deep drawing  | collimators   | collisional plasmas  |
| extruding  | DEF Optical devices which render rays   | GS particles of . charged particles  |
| forging  | light parallel. Used for autocollimators.   | energetic particles  |
| ∞ joining  | UF autocollimators  | plasmas (physics)  |
| magnetic forming   | GS optical equipment  | collisional plasmas  |
| metal drawing  | . collimators   | strongly coupled plasmas   |
| metal spinning   | RT beam waveguides  | . corpuscular radiation  |
| metal working  | mirrors   | energetic particles  |
| peening<br>roll forming  | optical measurement   | plasmas (physics)  |
| shearing   | collinearity  | collisional plasmas  |
| shot peening   | GS analysis (mathematics)   | strongly coupled plasmas RT electron runaway (plasma physics)  |
| stamping   | . calculus  | high temperature plasmas   |
| stretch forming  | vector analysis   | nuclear fusion   |
| stretching   | collinearity  | plasma conductivity  |
| swaging  | . real variables  | plasma density   |
| temper (metallurgy)  | vector analysis   | plasma waves   |
|  |   | plasma waves   |
| upsetting  | collinearity  | ·  |
| upsetting<br>winding   | geometry  | collisionless plasmas  |
| winding  | geometry . vector analysis  | collisionless plasmas GS particles   |
| winding Coleoptera   | geometry<br>vector analysis<br>collinearity   | collisionless plasmas GS particles . charged particles   |
| winding  Coleoptera  GS animals  | geometry . vector analysis . <b>collinearity</b> linearity  | collisionless plasmas  GS particles . charged particles energetic particles  |
| winding  Coleoptera GS animals . invertebrates   | geometry<br>vector analysis<br>collinearity   | collisionless plasmas GS particles . charged particles energetic particles plasmas (physics)   |
| winding  Coleoptera  GS animals  | geometry . vector analysis . <b>collinearity</b> linearity  | collisionless plasmas  GS particles . charged particles energetic particles  |
| winding  Coleoptera GS animals . invertebrates arthropods  | geometry vector analysis collinearity linearity collinearity  | collisionless plasmas GS particles . charged particles . energetic particles plasmas (physics) collisionless plasmas   |
| winding  Coleoptera GS animals . invertebrates . arthropods . insects . Coleoptera . beetles   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance   | collisionless plasmas  GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics)  |
| winding  Coleoptera  GS animals . invertebrates . arthropods . insects Coleoptera beetles tribolia   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance   | collisionless plasmas GS particles   |
| winding  Coleoptera GS animals . invertebrates . arthropods . insects . Coleoptera . beetles   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance  | collisionless plasmas GS particles   |
| winding  Coleoptera GS animals   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System   | collisionless plasmas  GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas  RT cold plasmas ionic waves   |
| winding  Coleoptera GS animals . invertebrates . arthropods . insects . Coleoptera . beetles . tribolia . boll weevils  colic  | geometry . vector analysis . collinearity linearity collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System RT air navigation   | collisionless plasmas  GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas  RT cold plasmas ionic waves Kelvin-Helmholtz instability  |
| winding  Coleoptera  GS animals . invertebrates . arthropods insects Coleoptera beetles tribolia boll weevils  colic GS diseases   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices avoidance . collision avoidance . Beacon Collision Avoidance System RT air navigation air traffic  | collisionless plasmas  GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas  RT cold plasmas ionic waves Kelvin-Helmholtz instability low density research   |
| winding  Coleoptera  GS animals . invertebrates . arthropods . insects . Coleoptera . beetles . tribolia . boll weevils  Colic GS diseases . colic   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System  RT air navigation air traffic air traffic control  | collisionless plasmas GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas RT cold plasmas ionic waves Kelvin-Helmholtz instability low density research magnetic islands  |
| winding  Coleoptera  GS animals . invertebrates . arthropods insects Coleoptera beetles tribolia boll weevils  colic GS diseases   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System  RT air navigation air traffic air traffic control aircraft approach spacing  | collisionless plasmas  GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas  RT cold plasmas ionic waves Kelvin-Helmholtz instability low density research   |
| winding  Coleoptera GS animals . invertebrates . arthropods . insects . Coleoptera . beetles . tribolia . boll weevils  Colic GS diseases . colic RT gastrointestinal system   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System  RT air navigation air traffic air traffic control  | collisionless plasmas GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas RT cold plasmas ionic waves Kelvin-Helmholtz instability low density research magnetic islands  |
| winding  Coleoptera GS animals . invertebrates . arthropods . insects . Coleoptera . beetles . tribolia . boll weevils  Colic GS diseases . colic RT gastrointestinal system   | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System RT air navigation air traffic air traffic control aircraft approach spacing aircraft guidance   | collisionless plasmas  GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas  RT coll plasmas ionic waves Kelvin-Helmholtz instability low density research magnetic islands rarefied plasmas   |
| winding  Coleoptera GS animals . invertebrates . arthropods . insects . Coleoptera . beetles . tribolia . boll weevils  Colic GS diseases . colic RT gastrointestinal system intestines  Collagens RT bone mineral content | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance  UF collision warning devices GS avoidance . collision avoidance . Beacon Collision Avoidance System  RT air navigation air traffic air traffic control aircraft approach spacing aircraft guidance aircraft safety airspace approach control | collisionless plasmas GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas RT cold plasmas ionic waves Kelvin-Helmholtz instability low density research magnetic islands rarefied plasmas  collisions GS collisions . atomic collisions |
| winding  Coleoptera  GS animals . invertebrates . arthropods . insects . Coleoptera . beetles . tribolia . boll weevils  Colic  GS diseases . colic  RT gastrointestinal system intestines  collagens                      | geometry . vector analysis . collinearity linearity . collinearity  collision avoidance UF collision warning devices avoidance . Beacon Collision Avoidance System  RT air navigation air traffic air traffic control aircraft approach spacing aircraft guidance aircraft safety airspace  | collisionless plasmas GS particles . charged particles . energetic particles . plasmas (physics) . collisionless plasmas . corpuscular radiation . energetic particles . plasmas (physics) . collisionless plasmas  RT cold plasmas ionic waves Kelvin-Helmholtz instability low density research magnetic islands rarefied plasmas  collisions GS collisions                    |

|                         | . inelastic collisions . ionic collisions . meteorite collisions |          | homeostasis<br>micelles<br>nonNewtonian fluids   |               | black and white photography<br>cinematography<br>color infrared photography |
|-------------------------|--|----------|--|---------------|---|
|                         | . midair collisions  |          | particles  |               | orthophotography  |
|                         | bird-aircraft collisions   |          | plastisols   |               | photochromism   |
|                         | . asteroid collisions . molecular collisions                     | c        | o separation   |               | photomapping<br>shadowgraph photography                                     |
|                         | . particle collisions  | Colomi   |  |               | stereophotography   |
| RT                      | air bag restraint devices  | GS       | nations<br>. Colombia  |               | ultraviolet photography   |
|                         | air traffic control aircraft accidents                           | RT       | Llanos Orientales (Colombia)   |               | underwater photography  |
|                         | aircraft hazards   |          | Magdalena-Cauca Valley (Colombia)  |               | elevision   |
|                         | aircraft safety collision avoidance                              |          | South America  | GS            | telecommunication . color television  |
|                         | crashes  | colonie  | es   |               | television systems  |
|                         | flight hazards   | RT       | bacteria   | DT            | color television  |
|                         | flight paths<br>gas atomization                                  |          | bacteriology   | RT            | closed circuit television communicating                                     |
|                         | impact velocity  | color    |  |               | communication equipment   |
|                         | pilot error  | UF<br>GS | coloration electromagnetic properties  |               | educational television  |
|                         | recoilings<br>runway incursions                                  | GG       | . optical properties   |               | satellite television spacecraft television                                  |
|                         | scattering   |          | color  |               | stereotelevision  |
| aallaaat                | ion  |          | iridescence stellar color  |               | television reception television transmission                                |
| collocat<br>RT          | assemblies   |          | water color  |               | television transmission   |
|                         | assembly   | RT       | brightness   | color v       |   |
|                         | congruences  |          | chromophores colorimetry   | UF<br>GS      | color perception vision   |
|                         | position (location) positioning                                  |          | contrast   | GS            | . color vision  |
|                         |  |          | darkness   | RT            | eye (anatomy)   |
|                         | I generators   |          | dichroism<br>discoloration   |               | Young-Helmholtz theory  |
| RT                      | atomizing dispersions  |          | electrochromism  | Colorad       | do  |
| ~                       | generators   |          | fading   | GS            | nations   |
|                         | plasma diffusion plasma generators                               |          | human factors engineering incandescence  |               | . United States Colorado  |
|                         | sprayers   |          | isochromatics  | RT            | Colorado Plateau (US)   |
|                         | vaporizers   |          | light (visible radiation)  |               | Colorado River (North America)  |
| colloida                | l propellants  |          | perception<br>phototropism   |               | Manitou (CO)<br>Pike's Peak (CO)  |
| UF                      | cordite  | c        | ∘ physical properties  |               | San Juan Mountains (CO)   |
| GS                      | mixtures   |          | prewhitening   | 0-1           | de Blatana (UC)   |
|                         | . dispersions . colloids   |          | spectra<br>surface properties  | GS            | do Plateau (US)<br>land   |
|                         | colloidal propellants  |          | symbols  |               | . Colorado Plateau (US)   |
|                         | propellants  |          | thermochromatic materials  |               | landforms   |
| RT                      | . colloidal propellants<br>gelled propellants                    |          | vegetative index visibility  |               | . terraces (landforms) plateaus   |
|                         | slurry propellants   |          | vision   |               | Colorado Plateau (US)   |
|                         | solid propellants solid suspensions                              |          | wave dispersion  | RT            | Arizona<br>Colorado   |
|                         | solid suspensions  | color (p | article physics)   |               | highlands   |
|                         | suspensions  | USE      | quantum chromodynamics   |               | New Mexico  |
|                         | ed May 2001)<br>colloids   | color c  | enters   |               | Utah  |
|                         |  | UF       | F centers  |               | do River (North America)  |
| <b>colloidi</b> ı<br>UF |  | RT «     | centers  | GS            | rivers  |
|                         | lyophilization<br>mixing   |          | Franck-Condon principle  | RT            | . Colorado River (North America) Arizona                                    |
|                         | . colloiding   | color c  |  |               | Colorado  |
| RT                      | agitation atomizing  |          | Any system of colors used for pur-<br>of identification. Used for color enhance-   |               | Mexico<br>Utah  |
|                         | colloids   | ment.    | ridentification. Oded for color critication  |               | Otali   |
|                         | comminution  | UF       | color enhancement  | colorati      |   |
|                         | compounding dispersing   | KI 4     | ∘ codes<br>coding  | USE           | color   |
|                         | flocculating   |          |  |               | olor diagram  |
|                         | gelation   |          | nhancement   |               | A two-axis coordinate graph showing   |
|                         | homogenizing precipitation (chemistry)                           | USE      | color coding   |               | tribution of stars or other objects with ce to different color indices.     |
|                         | suspending (mixing)  |          | nfrared photography  |               | diagrams  |
| colloids                |  |          | A representation of temperature differ-<br>using false colors.   | RT            | color-color diagram color-magnitude diagram                                 |
| UF                      | colloidal suspensions  | GS       | imagery  | KI            | Hertzsprung-Russell diagram   |
|                         | lyophils   |          | . photography  |               | stellar color   |
| GS                      | mixtures . dispersions   |          | multispectral photography infrared photography   |               | stellar spectra stellar spectrophotometry                                   |
|                         | colloids   |          | color infrared photography   |               | UBV spectra   |
|                         | aerosols   | RT       |  |               |   |
|                         | fog colloidal propellants  |          | infrared imagery   | colorim<br>GS |   |
| RT                      | Brownian movements   |          | erception  | 00            | colorimetry   |
|                         | clays  | USE      | color vision   | RT            |   |
|                         | colloiding electrodialysis                                       | color n  | hotography   |               | chromatography Coastal Zone Color Scanner                                   |
|                         | electrophoresis  |          | imagery  |               | color   |
|                         | emulsions  |          | . photography  |               | electrophotometry   |
|                         | foams<br>gels  | RT       | color photography aerial photography   |               | liquid chromatography ocean color scanner                                   |
|                         | •  |          | and the state of t |               |   |

optical measuring instruments photometry spectrophotometry spectroscopy thermochromatic materials

color-magnitude diagram

The plot of the absolute or apparent magnitude against the color index for a group of stars. Also known as C-M diagram. Used for C-M diagram.

C-M diagram UF GS diagrams

color-magnitude diagram

asymptotic giant branch stars color-color diagram globular clusters Hertzsprung-Russell diagram horizontal branch stars main sequence stars star clusters stellar color stellar evolution

cols

USE gaps (geology)

#### Columbia (Orbiter)

Space Shuttle Orbiter 102 GS

stellar magnitude

manned spacecraft . space shuttles

. . Space Shuttle orbiters ... Columbia (Orbiter)

reentry vehicles

. recoverable spacecraft

. . reusable spacecraft ... space shuttles

Space Shuttle orbiters .... Columbia (Orbiter)

manned space flight Space Shuttle mission 31-A

Space Shuttle mission 41-A Space Shuttle mission 61-A Space Shuttle mission 61-C

Space Shuttle mission 61-E

∞ spacecraft

#### Columbia River Basin (ID-OR-WA)

landforms

. structural basins

. . river basins

... Columbia River Basin

(ID-OR-WA)

Idaho Oregon rivers Washington

columbium

USE niobium

#### Columbus module

(added December 2007)

DEF Permanent laboratory module of the International Space Station developed by the European Space Agency. The module accommodates both internal and external experiment racks for conducting multidisciplinary research into material science, fluid physics, and the life sciences

GS laboratories

. space laboratories

. manned orbital laboratories

. . Columbus module

manned spacecraft

. manned orbital laboratories

. . Columbus module

modules

. space station modules

. Columbus module

Columbus space station European Space Agency International Space Station spaceborne experiments

#### Columbus space station

(LIMITED TO THE AUTONOMOUS ESA SPACE STATION, FOR REFERENCES TO THE INTERNATIONAL SPACE STATION MODULE USE COLUMBUS MODULE.)

DEF A manned orbital platform originally planned by the European Space Agency to be a fully autonomous space station. This planned station was later superseded by the 'Columbus module' that became the Agency's largest contribution to the International Space Station.

GS artificial satellites

space stations

. Columbus space station

ESA spacecraft

Columbus space station

manned spacecraft Columbus space station

space platforms

. Columbus space station

stations

space stations

. Columbus space station

**AEPS** 

Automated Transfer Vehicle

bioastronautics Columbus module

ferry spacecraft
International Space Station intraorbit transfer vehicles

large space structures man tended free flyers

manned orbital laboratories military spacecraft orbital servicing

rendezvous spacecraft shape control

space shuttles

Space Station Freedom space station polar platforms

#### ∞ columns

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN columns (process engineering) columns (supports)

#### columns (process engineering)

absorbers (equipment) chemical reactors

∞ columns

concentrators

condensers (liquefiers)

contactors contractors dehydration

dehydrogenation distillation equipment

drying apparatus extraction

scrubbers separators vaporizers

columns (supports)

structural members

. columns (supports)

. tapered columns

beams (supports)

∞ columns

pylon mounting

pylons struts

studs (structural members)

Timoshenko beams

towers

#### ∞ coma

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) aberration

blackout (physiology) blackout prevention comet heads comet nuclei

comet tails

cometary atmospheres comets

Grigg-Skjellerup comet Kohoutek comet screen effect

Tempel 2 comet

unconsciousness

#### combat

GS military operations

. combat warfare

. combat

aircraft survivability B-1 aircraft electronic warfare

#### ∞ combination

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

admixtures consolidation mixtures permutations

#### combinations (mathematics)

analysis (mathematics)

. combinatorial analysis

. . combinations (mathematics)

partitions (mathematics) permutations

#### combinatorial analysis

GS analysis (mathematics)

combinatorial analysis

. . binomial coefficients

. . combinations (mathematics)

. . factorials

. . partitions (mathematics)

. permutations

RT ∞ analyzing

∞ applications of mathematics

graph theory information theory number theory probability theory set theory

#### combined cycle power generation

DEF Power generation which combines an open-cycle gas turbine and a closed-cycle steam turbine.

electric generators electric generators electric power plants energy technology gas turbines steam turbines

Combined Release and Radiation Effects Sat

USE CRRES (satellite)

#### combined stress

GS stresses

combined stress

fatigue life stress analysis stress concentration stress intensity factors

combustibility

USE flammability

#### combustible flow

fluid flow

. reacting flow

. combustible flow boundary layer combustion combustion physics

combustion products detonation waves dump combustors flame propagation

fuel flow turbulent combustion turbulent flames turbulent flow

#### combustion

DEF A chemical process of oxidation that occurs at a rate fast enough to produce heat and usually light either as a glow or flames. Some oxidation such as that of hydrogen emits radiation outside the visible spectrum. Used for burning and burning process.

UF burning

|  | burning process  | RT                                   | chain reactions (chemistry)  |  | high temperature gases  |
|--|--|--------------------------------------|--|--|---|
| GS   | combustion   |                                      | chemical engineering   |  | odors   |
|  | . afterburning   |                                      | chemical reactions   |  | particulates  |
|  | . boundary layer combustion  | c                                    | ∞ chemistry  |  | pollution transport   |
|  | . deflagration   |                                      | combustion   |  | polycyclic aromatic hydrocarbons  |
|  | erosive burning  |                                      | combustion physics   |  | rocket exhaust  |
|  | . fuel combustion  |                                      | combustion products  |  | smog  |
|  | nuclear fuel burnup  |                                      | combustion stability   |  | smoke   |
|  | . hydrocarbon combustion   |                                      | combustion synthesis   |  | vapors  |
|  | . hypersonic combustion  |                                      | exothermic reactions   |  | wastes  |
|  | . metal combustion   |                                      | flame temperature  | aambuu   | otion stability   |
|  | . propellant combustion  |                                      | oxidation  |  | stion stability   |
|  | solid propellant combustion solid propellant ignition  |                                      | reacting flow reaction kinetics  | UF   | acoustic combustion chugging  |
|  |  |                                      | reaction kinetics  |  | combustion instability  |
|  | . biomass burning . smoldering   | combu                                | stion control  | GS   | dynamic characteristics   |
|  | . spontaneous combustion   |                                      | Control of factors (temperature, pre-  | 63   | . dynamic stability   |
|  | . supersonic combustion  |                                      | , draft, excess or deficient air, etc.) which  |  | combustion stability  |
|  | . turbulent combustion   |                                      | combustion efficiency.   |  | flame stability   |
| RT   | backfire   | RT                                   | automatic control  |  | stability   |
|  | burning rate   |                                      | burning rate   |  | . dynamic stability   |
|  | burning time   |                                      | combustion   |  | combustion stability  |
|  | burnout  | c                                    | ∞ control  |  | flame stability   |
|  | charring   |                                      | engine control   | RT   | axial modes   |
|  | chemical explosions  |                                      | fuel control   |  | burning rate  |
|  | combustion chambers  |                                      | temperature control  |  | combustion  |
|  | combustion chemistry   |                                      | •  |  | combustion chemistry  |
|  | combustion control   | combu                                | stion efficiency   |  | fuel combustion   |
|  | combustion efficiency  | DEF                                  | The efficiency with which fuel is  |  | motion stability  |
|  | combustion physics   | burned,                              | expressed as the ratio of the actual   |  | pressure oscillations   |
|  | combustion products  |                                      | released by the combustion to the po-  |  | propellant combustion   |
|  | combustion stability   | tential o                            | chemical energy of the fuel.   |  | smoldering  |
|  | combustion synthesis   | GS                                   | efficiency   |  | solid propellant combustion   |
|  | combustion temperature   |                                      | . combustion efficiency  |  | thermal instability   |
|  | combustion vibration   | RT                                   | ACEE program   |  | thermoacoustic effects  |
|  | detonation   |                                      | burning rate   |  | turbulent combustion  |
|  | diffusion flames   |                                      | burning time   |  | velocity coupling   |
|  | exothermic reactions   |                                      | combustion   |  |   |
|  | explosions   |                                      | dump combustors  |  | stion synthesis   |
|  | extinguishing  |                                      | exhaust gases  |  | ed April 1993)  |
|  | fire damage  |                                      | fuel combustion  | RT   | annealing   |
|  | firebreaks   |                                      | fuel consumption   |  | cermets   |
|  | fires  |                                      | fuel-air ratio   |  | combustion  |
|  | flame propagation  |                                      | power efficiency   |  | combustion chemistry  |
|  | flameout   |                                      | propellant combustion  |  | exothermic reactions  |
|  | flames   |                                      | propellant consumption   |  | functionally gradient materials   |
|  |  |                                      |  |  |   |
|  | flammability   |                                      | propulsion system performance  |  | powder metallurgy   |
|  | flashback  |                                      | propulsive efficiency  |  | powder metallurgy sintering   |
|  | flashback<br>forest fires  |                                      |  | aambuu   | sintering   |
|  | flashback<br>forest fires<br>heat balance  | combus                               | propulsive efficiency<br>thermodynamic efficiency  |  | sintering<br>stion temperature  |
|  | flashback<br>forest fires<br>heat balance<br>heat generation   |                                      | propulsive efficiency thermodynamic efficiency stion heat  | <b>combu</b> :<br>GS   | sintering stion temperature temperature   |
|  | flashback forest fires heat balance heat generation ignition   |                                      | propulsive efficiency<br>thermodynamic efficiency  | GS   | sintering stion temperature temperature combustion temperature  |
|  | flashback<br>forest fires<br>heat balance<br>heat generation<br>ignition<br>ignition limits  | USE                                  | propulsive efficiency<br>thermodynamic efficiency<br>stion heat<br>heat of combustion  |  | sintering stion temperature temperature combustion temperature combustion   |
|  | flashback<br>forest fires<br>heat balance<br>heat generation<br>ignition<br>ignition limits<br>incendiary ammunition   | USE<br>combus                        | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability   | GS   | sintering stion temperature temperature . combustion temperature combustion erosive burning   |
|  | flashback<br>forest fires<br>heat balance<br>heat generation<br>ignition<br>ignition limits<br>incendiary ammunition<br>internal combustion engines  | USE<br>combus                        | propulsive efficiency<br>thermodynamic efficiency<br>stion heat<br>heat of combustion  | GS   | sintering  stion temperature temperature .combustion temperature combustion erosive burning flame temperature   |
|  | flashback<br>forest fires<br>heat balance<br>heat generation<br>ignition<br>ignition limits<br>incendiary ammunition<br>internal combustion engines<br>oxidation   | USE<br>combus<br>USE                 | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability  | GS   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point  |
| ۰  | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics   | USE<br>combus<br>USE                 | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics  | GS   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature   |
| ۰  | flashback<br>forest fires<br>heat balance<br>heat generation<br>ignition<br>ignition limits<br>incendiary ammunition<br>internal combustion engines<br>oxidation<br>physics<br>quenching (cooling)   | USE<br>combus<br>USE<br>combu        | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability  | GS   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature   |
| ۰  | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition  | USE<br>combus<br>USE<br>combu        | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics   | GS   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature   |
| ۰  | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition supersonic combustion ramjet   | USE<br>combus<br>USE<br>combus<br>GS | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics combustion physics  | GS<br>RT   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature   |
| ۰  | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition  | USE<br>combus<br>USE<br>combus<br>GS | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics . combustion physics aerothermodynamics   | GS<br>RT<br>combus   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature spontaneous combustion  |
|  | flashback forest fires heat balance heat generation ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition supersonic combustion ramjet engines  | USE<br>combus<br>USE<br>combus<br>GS | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics combustion physics aerothermodynamics combustiole flow combustion combustion chemistry  | GS<br>RT<br>combus   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature spontaneous combustion  stion vibration   |
| combus   | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition supersonic combustion ramjet engines  stion chambers   | USE<br>combus<br>USE<br>combus<br>GS | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics . combustion physics aerothermodynamics combustion combustion combustion combustion chemistry Damkohler number  | GS<br>RT<br>combus   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature spontaneous combustion stion vibration vibration  |
| combus<br>DEF                                    | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition supersonic combustion ramjet engines  stion chambers Containers in which the actual burning  | USE<br>combus<br>USE<br>combus<br>GS | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics . combustion physics aerothermodynamics combustible flow combustion chemistry Damkohler number flame propagation  | GS<br>RT<br><b>combu</b> :<br>GS   | sintering  stion temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature spontaneous combustion  stion vibration vibration . combustion vibration  |
| combus<br>DEF<br>of fuel t                       | flashback forest fires heat balance heat generation ignition ignition limits incendiary ammunition internal combustion engines oxidation physics quenching (cooling) spark ignition supersonic combustion ramjet engines  stion chambers Containers in which the actual burning akes place. Used for combustors.   | USE<br>combus<br>USE<br>combus<br>GS | propulsive efficiency thermodynamic efficiency stion heat heat of combustion stion instability combustion stability stion physics thermodynamics combustion physics aerothermodynamics combustible flow combustion combustion combustion chemistry Damkohler number flame propagation heat of combustion   | GS<br>RT<br><b>combu</b> :<br>GS   | sintering  stion temperature temperature temperature . combustion temperature combustion erosive burning flame temperature flash point ignition temperature operating temperature spontaneous combustion  stion vibration vibration combustion vibration combustion   |
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. Comet 4 aircraft craters targets monoplanes Cretaceous-Tertiary boundary command quidance Comet 4 aircraft Deep Impact Mission The guidance of a spacecraft or rocket passenger aircraft hypervelocity impact by means of electronic signals sent to receiving Comet 4 aircraft meteorite collisions devices in the vehicle. Used for command sys-RT ∞ aircraft near Earth objects shatter cones tems. command systems comet heads Shoemaker-Levy 9 comet GS celestial bodies GS guidance (motion) command guidance . comet heads cometary magnetospheres (added September 1988) RT cometary atmospheres  $RT \, \infty \, commands$ RT ∞ coma cometary atmospheres ground support equipment injection guidance solar system comets midcourse guidance  ${\scriptstyle \infty}\, magnetospheres$ comet nuclei rendezvous guidance celestial bodies rendezvous spacecraft GS . comet nuclei spacecraft guidance DEF Luminous members of the solar sys-RT ∞ coma terminal guidance tem composed of a head, or coma, and often Comet Nucleus Tour with a spectacular gaseous tail extending a cometary atmospheres command languages great distance from the head. DEF Vocabularies to interactively execute Oort cloud celestial bodies activities such as computer retrieval or input. Rosetta mission . comets GS languages solar system . . Arend-Roland comet . command languages Stardust Mission . . Austin comet . query languages Brorsen-Metcalf comet human-computer interface **Comet Nucleus Tour** . . Encke comet (added February 1999)
DEF A NASA Discovery-class mission to information retrieval Giacobini-Zinner comet Grigg-Skjellerup comet acquire imagery and comparative spectral maps command modules Hale-Bopp comet of comet nuclei and analyze comet dust flows. GS compartments . . Halley's comet . command modules The mission spacecraft will fly to within 100 Humason comet kilometers of at least three near-Earth comets modules . . IRAS-Araki-Alcock comet . spacecraft modules including Comet Encke, Comet Schwassmann-Kohoutek comet . command modules Wachmann, and Comet d'Arrest. Morehouse comet CONTOUR (mission) spacecraft components Mrkos comet GS . spacecraft modules space missions Okazaki-Levy-Rudenko comet flyby missions . command modules Schwassmann-Wachmann comet RT Apollo spacecraft . Comet Nucleus Tour Shoemaker-Levy 9 comet ∞ commands comet nuclei . . Tempel 1 comet Marquardt R4D engine Encke comet Tempel 2 comet Schwassmann-Wachmann comet service modules West comet spacecraft docking modules swingby technique Wild 2 comet spacecrew transfer RT Bessel-Bredichin theory Comet Rendezvous Asteroid Flyby Mission (added November 1988) ∞ coma command service modules cometary atmospheres CRAF mission CSM cometary magnetospheres GS modules GS space missions Deep Impact Mission . spacecraft modules . asteroid missions hypothetical planets ... command service modules . . Comet Rendezvous Asteroid Kuiper belt spacecraft components Flyby Mission meteorite parent bodies . spacecraft modules . flyby missions meteoroid showers command service modules .. Comet Rendezvous Asteroid meteoroids Apollo project Flyby Mission near Earth objects lunar orbits RT Mariner Mark 2 Spacecraft Oort cloud manned spacecraft ∞ missions solar system Skylab 1 NASA space programs Skylab 2 Near Earth Asteroid Rendezvous comfort Skylab 3 Mission acoustics RT Skylab 4 Rosetta mission air conditioning spacecraft docking modules efficiency comet tails environmental engineering command systems celestial bodies GS glare USE command guidance comet tails human factors engineering  $RT \, \infty \, coma$ humidity command-control cometary atmospheres illuminating USE command and control Grigg-Skjellerup comet performance radiation pressure physiological effects Commando aircraft solar system psychological effects USE C-46 aircraft solar wind reward (psychology) ∞ commands riding quality cometary atmospheres (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) seats The region of the coma of a comet as temperature well as the gaseous part surrounding the coma ventilation that often is a hydrogen atmosphere that conautonomy tains particulate matter. command and control RT astronomical photometry command and control command guidance UF command-control RT ∞ automation ∞ atmospheres command modules ∞ coma decisions comet heads autonomy AWACS aircraft comet nuclei commerce ∞ commands comet tails GS commerce cometary magnetospheres ∞ control . electronic commerce comets decision making commercial spacecraft consumption ionopause E-2 aircraft E-3A aircraft costs cometary collisions E-4A aircraft economic development (added June 1994) ground support equipment finance gross national product industrial areas collisions logistics

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|          | vestment  |        | water takeoff and landing aircraft                              |       | programs   |
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| commerce |   |        | energy conversion   | DEF   |  |
|          | overnment/industry relations<br>licrogravity applications |        | industrial energy   |       | ent or systems.<br>standardization                         |
|          | ission planning   |        | transportation energy   | 00    | . commonality  |
|          | pace commercialization                                    |        |   | RT    | aircraft equipment   |
|          | pace Shuttle payloads                                     | comme  | rcial off-the-shelf products                                    |       | cost reduction   |
| us       | ser requirements  |        | ed March 2001)  |       | efficiency   |
|          |   |        | Readily-available, commercially-                                |       | equipment specifications                                   |
|          | -1 -:   |        | ed products; often referring to commer-                         |       | ground support systems                                     |
| UF C     |   |        | lucts that can be used as an alternative                        |       | interoperability   |
|          | ommercial aviation<br>ommercial aircraft                  | UF     | use or customized product development.  COTS products           |       | spacecraft components                                      |
|          | Boeing 707 aircraft                                       | GS     | products  |       | specifications   |
|          | Boeing 720 aircraft                                       | 00     | . commercial off-the-shelf products                             | Commo | nwealth of Independent States                              |
|          | Boeing 727 aircraft                                       | RT     | commercialization   |       | ed September 1993)   |
|          | Boeing 733 aircraft                                       |        | cost effectiveness  | UF    | CIS  |
| . 1      | Boeing 737 aircraft                                       |        | government procurement  | RT    | Asia   |
|          | Boeing 747 aircraft                                       |        | procurement management  |       | Europe   |
|          | Boeing 757 aircraft                                       |        | product development   |       | nations  |
|          | Boeing 767 aircraft                                       |        |   |       | Russian Space Program                                      |
|          | Boeing 777 aircraft                                       |        | rcial spacecraft  |       |  |
|          | Comet 4 aircraft  | DEF    | Commercial satellites and other                                 | commu |  |
|          | CV-340 aircraft<br>CV-440 aircraft                        |        | aft operated by the private sector.                             | GS    | communicating . aircraft communication                     |
|          | CV-880 aircraft   | GS     | commercial spacecraft   |       | . electrocutaneous communication                           |
|          | CV-990 aircraft   | DT     | . RCA Satcom satellites   |       | ground-air-ground communication                            |
|          | DC 3 aircraft   | RT     | aerospace industry aerospace vehicles                           |       | . information dissemination                                |
|          | DC 7 aircraft   |        | commerce  |       | messages   |
| .        | DC 8 aircraft   |        | communication satellites  |       | selective dissemination of                                 |
| . 1      | DC 9 aircraft   |        | industries  |       | information  |
|          | DC 10 aircraft  |        | space commercialization   |       | . interstellar communication                               |
|          | DH 121 aircraft   |        | space industrialization   |       | . lip reading  |
|          | DO-328 aircraft   |        | space manufacturing   |       | . point to point communication                             |
|          | Electra aircraft  |        | space processing  |       | NASCOM network   |
|          | European Airbus   |        | VentureStar launch vehicle                                      |       | . underground communication                                |
|          | . A-300 aircraft<br>. A-310 aircraft                      |        |   |       | . verbal communication conversation                        |
|          | . A-320 aircraft  |        | rcialization  | RT    | color television   |
|          | . A-330 aircraft  |        | ed March 1997)  | 17.1  | computer conferencing                                      |
|          | . A-340 aircraft  | GS     | commercialization   |       | crosstalk  |
|          | . A-380 aircraft  | DT     | . space commercialization                                       |       | education  |
| .        | F-28 transport aircraft                                   | RT     | commercial off-the-shelf products government/industry relations |       | frequency assignment                                       |
|          | IL-62 aircraft  |        | marketing   |       | information  |
|          | Jetstream aircraft  |        | product development   |       | information flow   |
|          | L-1011 aircraft   |        | technology transfer   |       | information management                                     |
|          | Lear jet aircraft   |        | <b>5</b> 7  |       | message processing   |
|          | light transport aircraft<br>MD 11 aircraft                | commin | ution   |       | Morse code stereotelevision                                |
|          | MD 80 aircraft  | UF     | attrition (materials)   |       | systems engineering  |
|          | P-160 aircraft  | GS     | comminution   |       | TDR satellites   |
|          | SE-210 aircraft   |        | . crushing  |       | technology transfer  |
| . :      | supersonic commercial air transport                       |        | . grinding (comminution)  |       | telecommunication  |
|          | . Boeing 2707 aircraft                                    | DT     | . shredding   |       |  |
|          | . TU-144 aircraft   | RT     | atomizing beneficiation   | commu |  |
|          | Boeing 717 aircraft                                       |        | chipping  | GS    | telecommunication  |
|          | TU-104 aircraft   |        | colloiding  |       | . communication  |
|          | TU-124 aircraft<br>TU-134 aircraft                        |        | crushers  |       | facsimile communication                                    |
|          | TU-154 aircraft   |        | cutting   |       | automatic picture transmission line of sight communication |
|          | TU-204 aircraft   |        | disintegration  |       | optical communication                                      |
|          | VC-10 aircraft  |        | flaking   |       | free-space optical communication                           |
|          | ir transportation   |        | fragmentation   |       | ship to shore communication                                |
|          | rcraft  |        | gas atomization   |       | underwater communication                                   |
| ai       | rline operations  |        | grinding mills  |       | voice communication  |
|          | argo aircraft   |        | metal powder  |       | telephony  |
|          | vil aviation  | ~      | milling   |       | quantum communication                                      |
|          | ommuter aircraft  |        | particle production powder metallurgy                           | RT    | computer conferencing                                      |
|          | H-101 helicopter  | ~      | reduction   |       | information  |
|          | eneral aviation aircraft                                  |        |   |       | information flow   |
|          | round effect machines<br>et aircraft                      | Commit | tee on Space Research   |       | information management Marisat satellites                  |
|          | assenger aircraft   |        | COSPAR (committee)  |       | message processing   |
|          | otary wing aircraft                                       |        | aerospace sciences  |       | spread spectrum transmission                               |
|          | upersonic transports                                      |        | conferences   |       | technology transfer  |
|          | ansport aircraft  |        | European space programs   |       | 5,   |
| ut       | tility aircraft   |        | international cooperation                                       |       | nication cables  |
| V        | /STOL aircraft  |        | NASA programs   | GS    | transmission lines   |

. communication cables telecommunication wireless communication . coaxial cables video conferencing RT cable television communication systems ∞ cables USE telecommunication communication satellites electric wire Satellites designed to reflect or relay optical fibers electromagnetic signals used for communicacommunication theory submarine cables statistical communication theory waveguides Iridium satellites cross coupling artificial satellites cybernetics communication equipment . communication satellites data transmission communication equipment ..ACTS high level languages . Advanced Vidicon Camera System . . aeronautical satellites information theory (AVCS) . . . Aerosat satellites intelligibility . closed circuit television Arcomsat languages . diplexers . . Communications Technology lattices (mathematics) . interphones Satellite messages . PLAT system ComStar C network synthesis . radio receivers . NATO 3B satellite quantum communication . . superheterodyne receivers . . ComStar satellites random noise . . transmitter receivers . . direct broadcast satellites random processes . . whistler recorders . . European Communications redundancy . spacecraft television Satellite semantics . digital spacecraft television
. Ranger block 3 television system . . Intelsat satellites sentences . . low frequency transionospheric satellites signal to noise ratios . satellite television switching theory stereotelevision . . L-Sat ∞ theories antenna components . . Marecs maritime satellites . . Marots (ESA) . . Molniya satellites biotelemetry color television **Communications Technology Satellite** Earth terminals MSAT Hermes satellite educational television GS artificial satellites Palapa satellites . communication satellites equipment . Palapa 2 satellite furlable antennas Raduga satellite
RCA Satcom satellites
Relay satellites . . Communications Technology high definition television Satellite inertialess steerable antennas . . . ComStar C . . NATO 3B satellite information adaptive system Relay 1 satellite logarithmic receivers Canada Relay 2 satellite matched filters Canadian space program Symphonie satellites orbiting dipoles international cooperation SYNCOM satellites P.A.C.M. telemetry NASA programs Early Bird satellites pulse frequency modulation synchronous satellites SYNCOM 1 satellite pulse frequency modulation telemetry technology assessment SYNCOM 2 satellite radio communication technology utilization SYNCOM 3 satellite radio equipment ... SYNCOM 4 satellite radio relay systems TDR satellites communities radio telegraphy . Westar satellites communities GS radio telemetry Advent Project . inhabitants spherical antennas . . mountain inhabitants **ATS** telemetry carrier to noise ratios space colonies telephony commercial spacecraft RT cities television systems Comsat program demography unified S band Defense Communications Satellite ethnic factors System integrated energy systems demand assignment multiple access communication networks megalopolises Organization of facilities for the rapid domestic satellite communications minorities reception of, transmission of, and/or relaying of systems Modular Integrated Utility System electrical impulses for reproduction as printed messages, pictures, or other data. downlinking
Earth terminal measurement system nations police GS networks Echo project electronic mail politics . communication networks
. Aloha system
. Deep Space Network regimes Fleet Satellite Communication System sociology geophysical satellites Starsite program . . internets
. . . ARPA computer network
. . . World Wide Web ground-air-ground communication United Nations HET experiment urban development Indian space program INMARSAT satellites urban planning Iridium network urban research local area networks
NASCOM network Iridium network land mobile satellite service commutation .. VSAT (network) mobile communication systems DEF Sequential sampling, on a repetitive timesharing basis, of multiple data sources for . wide area networks network control access control orbit spectrum utilization transmitting or recording, or both, on a single asynchronous transfer mode passive satellites channel. broadcasting radio relay systems commutators carrier sense multiple access satellite communication interpolation data links satellite constellations switching theory defense communications system satellite networks (DCS) Skynet satellites demand assignment multiple access space commercialization commutators electronic bulletin boards space communication Devices used to accomplish time divielectronic mail Synchronous Communications sion multiplexing by repetitive sequential switchfrequency division multiplexing Satellite Proj Synchronous Meteorological Satellite network control ĞS commutators packet switching packets (communication) synchronous platforms . decommutators synchronous satellites armatures protocol (computers) telecommunication commutation pulse communication teleconferencina distributors radio communication Telstar project unmanned spacecraft electric contacts

uplinking

electric motors

∞ rotating electrical machines

satellite constellations

satellite networks

complementary DNA rotating generators intercalibration versatility matching pattern registration commuter aircraft ∞ compensation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (added October 1988) ranking passenger aircraft . commuter aircraft allowances compartmentation . ATR-72 aircraft USE compartments errors RT air transportation image motion compensation ∞ aircraft instrument compensation compartments commercial aircraft temperature compensation compartmentation general aviation aircraft transient response GS compartments . air locks compact disk read-only memory devices compensators . . airlock modules USE optical disks RT balance . aircraft compartments bias . command modules compact galaxies compulsators . pressurized cabins (added November 1988) error signals . spacecraft cabins celestial bodies feedback . test chambers . galaxies loop transfer recovery . . anechoic chambers compact galaxies video equipment . . pressure chambers RT galactic structure ... hyperbaric chambers compensatory tracking . vacuum chambers compacting GS tracking (position) agglomeration . reverberation chambers compensatory tracking RT bays (structural units) cold pressing infrared tracking densification ∞ cells optical tracking hot isostatic pressing crew experiment stations radar tracking hot pressing crew observation stations powder metallurgy crew workstations competition presses enclosures athletes modules ∞ pressing human performance pressing (forming) rooms human reactions space station modules vibration physical fitness spacecraft modules compactness compilation (computers) USE void ratio **COMPASS** (programming language) USE compilers companding . programming languages compiler programs A process in which compression is . . Assembly language USE compilers followed by expansion, as in noise reduction ... COMPASS (programming compilers language) RT frequency modulation (PROGRAM-MAKING ROUTINES FOR RT compilers SN DIGITAL COMPUTERS) modulation computer programming UF compilation (computers) radio transmission compiler programs signal processing computer programs signal to noise ratios GS DEF Instruments for indicating a horizontal compilers reference direction, specifically, magnetic comassembler routines companion stars passes autocoders GS celestial bodies measuring instruments C (programming language) . stars . indicating instruments collating . . double stars . . compasses COMPASS (programming language) . . . binary stars . . . gyrocompasses computer program integrity . . . . companion stars . . . magnetic compasses . . . Nemesis (star) computer systems programs . . . solar compasses RT brown dwarf stars data conversion routines navigation aids disk operating system (DOS) parallax . navigation instruments FORTRAN stellar motions . . compasses operating systems (computers) triple stars . . . gyrocompasses parsing algorithms variable stars ... magnetic compasses x ray binaries Pascal (programming language) solar compasses aircraft instruments programmed instruction comparator circuits beacons subroutines GS circuits buoys comparator circuits flight instruments ∞ complement clipper circuits radar beacons (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS delay circuits radio direction finders discrimination LISTED BELOW)
An angle equal to 90 deg. minus a transits time discrimination given angle. The true complement of any quancompatibility tity in positional notation, i.e. the quantity which, comparators In computer operations, devices or cir-DEF A characteristic ascribed to a major when added to the first quantity, gives the least quantity containing one more place. The basecuits for comparing information from two subsystem that indicates it functions well in the overall system. Also applied to the overall sysminus-one complement of any quantity in posimeasuring instruments tem with reference to how well its various subtional notation; i.e., the quantity which when GS systems work together, as in 'the vehicle has

good compatibility. ' Also applied to materials

which can be used in conjunction with other

materials and not react with each other under

electromagnetic compatibility

systems compatibility

normal operating conditions.

GS

compatibility

acceptability

conventions

permissivity

affinity

stability

suitability

biocompatibility chemical compatibility

#### comparators

anticoincidence detectors discriminators

error signals harmonic generators monochromators reflectometers

#### comparison

analogies cost analysis Earth analogs economic analysis estimates evaluation examination

added to the first quantity containing the same number of places.

complement (biology) complements (mathematics) personnel

#### complement (biology)

RT ∞ biology ∞ complement hemolysis

#### complementary DNA

(added August 2004) acids . nucleic acids

. . deoxyribonucleic acid

. . complementary DNA  $\infty$  variable . hybrid composites biopolymers . metal matrix composites complexity . nucleic acids . . aluminum boron composites complication . . deoxyribonucleic acid UF aluminum graphite composites GS complexity . . . complementary DNA . . Borsic (tradename) task complexity organic compounds . eutectic composites complex variables . nucleic acids RT . particulate reinforced composites . . deoxyribonucleic acid feedback . plywood complementary DNA ∞ performance . polymer matrix composites statistical distributions . . epoxy matrix composites ... boron-epoxy composites complementary metal oxide semiconductors compliance (elasticity) . . . graphite-epoxy composites
. . graphite-polyimide composites USE CMOS USE modulus of elasticity . . reinforced plastics complements (mathematics) complication . . . carbon fiber reinforced plastics USE complexity RT angles (geometry) . carbon-phenolic composites glass fiber reinforced plastics ∞ complement component reliability ∞ logic . . . micarta reliability . resin matrix composites component reliability . . boron-epoxy composites . . carbon-phenolic composites completeness aircraft reliability achievement circuit reliability . . graphite-epoxy composites . superhybrid materials computer program integrity cumulative damage process control (industry) . . graphite-epoxy composites quality control . nanocomposites retirement for cause complex compounds . three dimensional composites Chemical compounds in which part of spacecraft reliability whisker composites the molecular bonding is of the coordinate type. structural reliability aircraft construction materials RT ∞ chemical compounds systems health monitoring airframe materials molecular structure aramid fibers transition metals ∞ components (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)
An article which is a self-contained bimetals boron fibers complex numbers carbon fibers geometry chemical vapor infiltration element of a complete operating unit and perintegers cladding forms a function necessary to the operation of numbers coatings that unit. Used for parts. real numbers parts E glass RT accessories fiber orientation complex systems antenna components fiber pullout parameter identification assemblies fiber pushout reliability engineering computer components fiber volume fraction system identification content fiber-matrix interfaces ∞ systems engine parts fibers systems analysis fractions insulation ingredients interlaminar stress complex variables missile components laminates GS analysis (mathematics) modules lay-up . complex variables redundant components low density research . . Airy function segments ∞ materials . . analytic functions spacecraft components ∞ matrices . entire functions spare parts matrix materials . . Bessel functions structural members metals Hankel functions subassemblies micromechanics . . Cauchy integral formula mixtures conformal mapping composite functions modular ratios . . conjugates GS analysis (mathematics) monotectic alloys . conjugate points exponential functions . real variables multilayer insulation composite functions ply orientation logarithms functions (mathematics) powder metallurgy gamma function composite functions preforms harmonic functions prepregs hyperbolic functions composite materials reinforcement (structures) hypergeometric functions Structural materials of metals, ceramreinforcing fibers Laguerre functions ics, or plastics with built-in strengthening agents reinforcing materials Legendre functions which may be in the form of filiments, foils, resin film infusion Liouville theorem powders, or flakes of a different compatible resin transfer molding Mathieu function material. Used for composites and pyrographalrigid structures meromorphic functions ∞ rovings . . . elliptic functions UF composites S glass . rational functions pyrographalloy sandwich structures composite materials nonholonomic equations GS sheet molding compounds orthogonal functions smart materials . Walsh function . boron reinforced materials solid suspensions Schwarz-Christoffel transformation aluminum boron composites spiral wrapping . . singularity (mathematics) boron-epoxy composites stacking sequence (composite . naked singularities carbon-carbon composites materials) . spherical harmonics . ceramic matrix composites thermosetting resins aperiodic functions . carbon-silicon carbide composites complexity cermets dependent variables composite propellants composite propellants Euler-Cauchy equations . fiber composites DEF Solid rocket propellants consisting of a fuel and an oxidizer neither of which would burn functional analysis aramid fiber composites Joukowski transformation without the presence of the other. . . braided composites maximum principle . . carbon fiber reinforced plastics composite materials real variables . . . carbon-phenolic composites . composite propellants Schauder fixpoint theorem glass fiber reinforced plastics propellants

woven composites

. glassy carbon

. functionally gradient materials

. solid propellants

RT case bonded propellants

composite propellants

stability derivatives

uniqueness theorem

Theodorsen transformation

double base propellants . . composting virtue of which its density increases with indouble base rocket propellants crease in pressure. management . waste management GS mechanical properties fuel production . . waste disposal compressibility plastic propellants composting bulk modulus plastisols compressible flow garbage polysulfides metabolic wastes compressive strength polyurethane resins shredding density (mass/volume) propellant additives solid wastes equations of state Gruneisen constant propellant binders waste treatment hydroelasticity solid rocket propellants waste utilization incompressibility composite structures metal powder compound A GS composite structures halogen compounds porosity laminates . fluorine compounds powder (particles) . . Boral . . fluorides . plywood .. compound A compressibility effects boron-epoxy composites . halides RT buffeting ceramic matrix composites compressible flow . . fluorides clamped structures ∞ effects . compound A functionally gradient materials flutter RT ∞ chemical compounds glass fiber reinforced plastics heat transfer honeycomb cores oscillating flow compound helicopters honeycomb structures pressure effects V/STOL aircraft hybrid structures relaxation (physiology) . rotary wing aircraft lay-up secondary flow . . helicopters pultrusion supersonic flow ... compound helicopters resin film infusion transonic flow . . . S-67 helicopter sheet molding compounds RT aeronautical engineering smart structures compressible boundary layer air transportation steel structures GS boundary layers ∞ aircraft compressible boundary layer ∞ structures aircraft configurations laminar boundary layer aircraft design composite wrapping three dimensional boundary layer helicopter design RT ceramic fibers turbulent boundary layer short takeoff aircraft fiber composites vertical takeoff aircraft filament winding compressible flow isotensoid structures In aerodynamics, flow at speeds sufficompounding ciently high that density changes in the fluid spiral wrapping milling (mixing) cannot be neglected. ∞ wrap GS mixing GS fluid flow . compounding . compressible flow composites colloiding USE composite materials . . Ringleb flow dissolving . transonic flow grinding (comminution) RT aerodynamics air flow ∞ composition homogenizing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN ∞ milling Cartan space compressibility composition (property) ∞ compounds compressibility effects (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) content SN formulations Crocco method ingredients gas flow RT ∞ chemical compounds stoichiometry Hugoniot equation of state potting compounds hypersonic flow composition (property) incompressible flow compressed air composition (property) magnetohydrodynamic flow gases . atmospheric composition Newton pressure law . gas mixtures . . atmospheric moisture stagnation flow . . air .. ionospheric composition stagnation pressure ... compressed air body composition (biology) stagnation temperature mixtures . chemical composition subsonic flow . solutions ... carbon dioxide concentration supersonic flow . . gas mixtures . . stellar composition . . . air . concentration (composition) compressible fluids .... compressed air . . atom concentration RT aerodynamic heating RT compressors . . carbon dioxide concentration Crocco method drills . . fiber volume fraction fluid power energy storage . . low concentrations ∘ fluids man operated propulsion systems hydroelasticity . . mascons oxygen supply equipment . . meteoroid concentration ideal fluids pneumatic equipment incompressible fluids . . moisture content ∞ pumping Maxwell fluids . . . atmospheric moisture . gas composition method of characteristics compressed gas . . carbon dioxide concentration P waves DEF Any gaseous materials or mixtures . isotope ratios superfluidity . lunar composition
. meteoritic composition having a container pressure exceeding 40 psi at 70 degrees F, or 104 psi at 130 degrees F. compressing planetary composition
 plasma composition Compressed gases are further defined as flam-UF recompression mable or nonflammable. squeezing RT ∞ composition gradients GS gases compressing compressed gas . plasma compression . high pressure oxygen speech baseband compression Henry law compressors adiabatic conditions lumping gas pressure mixtures anvils pneumatic control axial compression loads Raoult law blowing compressors solutions compressed video stoichiometry USE video compression concentrating composting densification compressibility internal compression inlets GS disposal

DEF The property of a substance, as air, by

. waste disposal

magnetic compression

mechanical properties metal powder piston theory ∞ pressing pressure pressure reduction pulse compression pumping rarefaction squeeze casting superchargers

#### compression loads

loads (forces)

. compression loads

. . axial compression loads

. impact loads

aerodynamic loads axial loads

buckling

compressive strength contact loads

dvnamic loads edge loading kink bands

kinking mechanical properties

shock loads static loads

structural design criteria

thrust loads

#### compression ratio

In internal combustion engines, the ratio between the volume displaced by the piston plus the clearance space, to the volume of the clearance space.

GS ratios

compression ratio

RT efficiency fuel-air ratio

compression testers

USE compression tests

#### compression tests

compression testers meteorite compression tests

creep tests destructive tests hardness tests

impact tests load tests

∞ materials tests static tests

∞ tests

#### compression waves

In acoustics, waves in an elastic medium which cause an element of the medium to change its volume without undergoing rotation. Mathematically, a compression wave is one whose velocity wave has zero curl.

GS elastic waves

compression waves

RT P waves wave rotors

#### compressive strength

The maximum load sustained by a standard specimen of a material when subjected to a crushing force.

GS mechanical properties

compressive strength

compressibility compression loads

ductility elastic properties

fiber strength high strength

load carrying capacity

Poisson ratio resilience shear strength ∞ strength toughness

#### compressor blades

Blades which are either rotor blades or stator blades in axial-flow compressors; sometimes used restrictively (and ambiguously) for compressor rotor blades.

turbomachine blades

compressor blades

RT ∞ blades

centrifugal compressors

fan blades

rotating stalls

rotor blades (turbomachinery)

stator blades turbine blades turbocompressors

vanes

#### compressor efficiency

GS efficiency

. compressor efficiency

power efficiency

thermodynamic efficiency

#### compressor rotors

rotating bodies GS

. rotors

. compressor rotors

centrifugal compressors

compressors fans

impellers

rotor blades (turbomachinery)

turbine wheels turbocompressors

#### compressors

(EXCLUDES DATA COMPRESSORS) DEF Machines for compressing air or other fluids.

#### GS compressors

centrifugal compressors

superchargers

supersonic compressors

transonic compressors

turbocompressors

air conditioning equipment

blowers

compressed air compressed gas compressing compressor rotors

condensers (liquefiers) coolers

∞ fans

refrigerating machinery

stators turbomachinery

vacuum pumps vaneless diffusers

#### Compton effect

The decrease in frequency and increase in wavelength of x rays or gamma rays when scattered by free electrons.

GS scattering

Compton effect

RT coherent scattering

∞ effects

inelastic scattering nuclear reactions

photoelectricity Sunyaev-Zeldovich effect

Compton Gamma Ray Observatory USE Gamma Ray Observatory

Compensated pulsed alternators, i.e., single phased alternators designed for pulsed power duty with air gap armature windings and air gap compensating windings.

AC generators compensators electric power supplies pulse generators

#### computation

calculation

#### GS computation

- . computational geometry
- . orbit calculation
- . . minimum variance orbit determination

. . orbital position estimation

. quantum computation

addition

∞ applications of mathematics

arithmetic calculators

computational astrophysics

computational electromagnetics computational fluid dynamics

computers data processing data reduction

dividing (mathematics)

flux vector splitting

o formulas

ill-conditioned problems

(mathematics) interpolation linear prediction multiplication subtraction sums systolic arrays

computational aerodynamics

(added April 1997)

USE computational fluid dynamics

#### computational astrophysics

analysis (mathematics)

. numerical analysis

. . computational astrophysics astrophysics

computational astrophysics

computation computerized simulation laboratory astrophysics

mathematical models

### ∞ science computational chemistry

DEF A complementary method for determining properties of gases, solids, and their interactions from first principle calculations. It extends testing capabilities to realms that are too dangerous or too costly to obtain experimentou tally. GS

analysis (mathematics)

. numerical analysis

computational chemistry

RT ∞ chemistry

tests

computer techniques computerized simulation configuration interaction physical chemistry self consistent fields

# computational electromagnetics

(added March 1995) GS analysis (mathematics)

. numerical analysis

computational electromagnetics

computation

computational fluid dynamics

electromagnetism finite difference time domain method parallel processing (computers)

perfectly matched layers radar cross sections

#### computational fluid dynamics

DEF The application of large computer systems for the numerical solutions of complex fluid dynamics equations.

UF computational aerodynamics

analysis (mathematics)

. numerical analysis

computational fluid dynamics

fluid mechanics

. fluid dynamics

. computational fluid dynamics

Baldwin-Lomax turbulence model BGK model Burnett equations

computation

computational electromagnetics convection-diffusion equation direct numerical simulation

∞ dvnamics

equations of motion finite element method flow deflection flow equations flux difference splitting flux vector splitting Godunov method grid generation (mathematics) hydrodynamic coefficients interactional aerodynamics k-epsilon turbulence model k-omega turbulence model large eddy simulation multiblock grids multigrid methods Navier-Stokes equation numerical flow visualization panel method (fluid dynamics) relaxation method (mathematics) Reynolds averaging space-time CE/SE method space-time CE/SE method spectral methods structured grids (mathematics) turbulence models TVD schemes unstructured grids (mathematics) upwind schemes (mathematics) vortex in cell technique

# computational geometry (added August 1988) GS computation

. computational geometry geometry

. computational geometry computer aided design Voronoi diagrams

vortex lattice method

#### computational grids

grids (mathematics) mesh (mathematics) coordinates

. computational grids

. . structured grids (mathematics)

... multiblock grids
... unstructured grids (mathematics)

RT grid generation (mathematics) grid refinement (mathematics)

 $\infty$  grids

mathematical models multigrid methods numerical analysis perfectly matched layers

problem solving three dimensional models

computational grids (computer networks) (added December 2003)
JSE grid computing (computer

networks)

#### computer aided design

GS

DEF The use of the computer in design work. Used for CAD (design), computer aided engineering, and computerized design.

CAD (design) computer aided engineering

computerized design computer techniques

computer aided design

. IPAD

aircraft design amplifier design

computational geometry computer graphics

computerized simulation

∞ design

design optimization drafting machines engine design helicopter design

human-computer interface

lens design lofting logic design missile design

multidisciplinary design optimization rapid prototyping

reactor design

robotics satellite design spacecraft design structural design structured programming three dimensional models

computer aided engineering USE computer aided design

computer aided manufacturing

DEF Interactive computing in support of manufacturing. Used for CAM (manufacturing). CAM (manufacturing)

computer techniques

computer aided manufacturing

manufacturing . computer aided manufacturing

computer graphics

computerized simulation

group technology (manufacturing)

rapid prototyping

#### computer aided mapping

DEF Creating data bases of topographic and man-made features for the production of traditional maps and digital maps. Resultant digital maps have great flexibility and can be easily updated. The user can select the appropriate scale, view selected features, and view any desired area.

ĞS computer techniques

computer aided mapping mapping

computer aided mapping

computer graphics computerized simulation maps robotics

#### computer aided tomography

CAT scanner

computer techniques

computer aided tomography

imagery . radiography

. . tomography
. . . computer aided tomography

computer graphics image processing

#### computer animation

GS arts

. graphic arts

. . animation

... computer animation

computer graphics

computer animation

computer techniques

computer animation

computerized simulation motion pictures

computer architecture

USE architecture (computers)

#### computer assisted instruction

DEF The use of a computer to present instructional material and to accept and evaluate student responses.

UF CAI

GS computer techniques

computer assisted instruction

. programmed instruction

. computer assisted instruction language programming

symbolic programming

computer bulletin boards

USE electronic bulletin boards

computer codes

USE computer programs

#### computer compatible tapes

Machine readable tapes. computer components computer storage devices .. computer compatible tapes

magnetic tapes computer compatible tapes

computers

data processing equipment

digital computers

∞ tapes

#### computer components

#### GS computer components

. adding circuits

. central processing units

. . arithmetic and logic units

. . RISC processors

. chips (memory devices)

. computer storage devices . . bubble memory devices

. . buffer storage

. . computer compatible tapes

. . cryogenic computer storage

. . delay lines (computer storage)
. . magnetic disks

. magnetic drums
. optical disks
. random access memory
. core storage

. . read-only memory devices

... CD-ROM

. . registers (computers)

. . accumulators (computers)

. microprocessors

. . Intel 8080 microprocessor

. peripheral equipment (computers)

. . printers (data processing)

. . remote consoles

shift registers

architecture (computers)

binary to decimal converters

∞ components

computers

consoles control units (computers)

decimal to binary converters

digital electronics

firmware

logical elements remote consoles

#### computer conferencing

(added September 1993)

DEF A form of teleconferencing that allows one or more users to exchange messages on a computer network.

GS telecommunication

. teleconferencing

. . computer conferencing communicating

communication electronic bulletin boards

electronic mail electronic publishing World Wide Web

computer design

(DESIGN OF COMPUTERS--EXCLUDES COMPUTERIZED DESIGN AND SYSTEMS ENGINEERING)

architecture (computers)

chips (electronics) computers

∘ design

fluid logic

hardware description languages

logic design

memory (computers) microprocessors MIMD (computers)

optical computers product development

read-only memory devices SIMD (computers)

computer graphics

DEF The technique of combining computer calculations with various display devices, printers, plotters, etc. to render information in graphical or pictorial format. Used for interactive graphics

interactive graphics computers computer methods GS computer graphics digital computers software (computers) computer animation computer programs errors RT computer aided design programs applications programs (computers) computer aided manufacturing redundancy ... NASTRAN computer aided mapping spreadsheets security computer aided tomography . . web services computer program reliability computers . compilers data processing terminals USE software reliability . computer systems programs display devices . . assembler routines computer programming

DEF The preparation of a formalized sequence of instructions that can be recognized and implemented by a computer.

UF Legendre code

GS computer programming

. assembler routines
. language programming graphical user interface . . input/output routines IBM personal computers . . operating systems (computers) Macintosh personal computers . . . disk operating system (DOS) multimedia UNIX (operating system) plotters . . subroutine libraries (computers) editing routines (computers)
 machine-independent programs raster scanning remote consoles . machine-independent progra . merging routines . multiple output programs . object programs . software development tools scene generation scientific visualization language programming logic programming . microprogramming tomography windows (computer programs) multiprogramming

object-oriented programming . soliware developm . source programs . subroutines RT algorithms Assembly language computer information security on-line programming DEF Protective measures to prevent deparallel programming struction, larceny, and/or unauthorized use of structured programming information in computerized files. Used for comsymbolic programming batch processing block diagrams puter security. Ada (programming language) GS security addressing coding ALGOL . computer security computer viruses . computer information security algorithms computers access control APL (programming language) data conversion routines computer viruses cryptography data processing Assembly language data flow analysis autocoders data processing BASIC (programming language) data transfer (computers) disk operating system (DOS) electronic commerce firewalls (computers) batch processing digital computers BCH codes error detection codes block diagrams fixed point arithmetic C (programming language) floating point arithmetic Goddard Trajectory Determination information resources management coding operating systems (computers) COMPASS (programming language) computer viruses privacy System quantum cryptography IBM personal computers context free languages selective dissemination of information instruction sets (computers) data structures steganography intellectual property digital techniques terrorism laser guidance expert systems machine translation file maintenance (computers) computer methods Macintosh personal computers USE computer programs firmware modularity flow charts NASA Interactive Planning System formalism computer networks numerical control The interconnection of two or more format on-line systems computers for the mutual or individual process-Forth (programming language) programmed instruction ing of data to and from a multitude of terminals or stations by utilizing appropriate switching techniques, transmission systems, or minipro-FORTRAN programming environments HAL/S (language) programs report generators heuristic methods ∞ routines cessors. kinoform GS networks linear programming software engineering . computer networks LISP (programming language) software reliability . . internets logic design software reuse . . . ARPA computer network . . . World Wide Web machine-independent programs structured programming MAP (programming language) ∞ translators . . client server systems MIMD (computers) user manuals (computer programs) .. local area networks natural language (computers) wide area networks numerical analysis computer security RT Aloha system open source licensing (computers) (added February 2003) DEF Measures and controls taken to prevent unauthorized access, misuse, or destruction of computer systems and networks, software, or the information stored in computer files. carrier sense multiple access Pascal (programming language) computer security distributed interactive simulation program verification (computers) distributed processing programmed instruction electronic mail programmers security programming Ethernet . computer security
. . computer information security firewalls (computers) programming environments programming languages grid computing (computer networks) . . firewalls (computers)
. . intrusion detection (computers) interprocessor communication Prolog (programming language) intrusion detection (computers) real time operation RT access control response time (computers) reverse engineering RISC processors network control computer networks protocol (computers) computer systems design service oriented architecture computer viruses run time (computers) sequential control VSAT (network) internets protocol (computers) SIMD (computers) computer program integrity software engineering software reliability The completeness of a program to computer simulation execute its intended function. USE computerized simulation GS integrity software reuse computer storage devices
UF machine storage . computer program integrity systems analysis reliability theorem proving computer components
. computer storage devices
. bubble memory devices . software reliability GS time sharing . computer program integrity UNIX (operating system)

computer programs

UF computer codes

. . buffer storage

. . computer compatible tapes

compilers completeness

computer viruses

|                                 | cryogenic computer storage   | data flow analysis   | a process, device, or concept in mathematical  |
|---------------------------------|--|--|--|
|                                 | delay lines (computer storage)   | data processing  | form. Used for ARIP (impact prediction), auto-   |
|                                 | magnetic disks   | digital computers  | matic rocket impact predictors, computer simu-   |
|                                 | magnetic drums   | editing routines (computers)   | lation, and IP (impact prediction).  |
|                                 | optical disks  | error detection codes  | UF ARIP (impact prediction)  |
|                                 | random access memory   | report generators  | automatic rocket impact predictors   |
|                                 | core storage   | ∞ routines   | computer simulation  |
|                                 | read-only memory devices   | software engineering   | IP (impact prediction)   |
|                                 | CD-ROM   | ∞ systems  | GS simulation  |
|                                 | registers (computers)  | systems analysis   | . computerized simulation  |
|                                 | accumulators (computers)   | computer systems simulation  | analog simulation  |
| RT                              | acoustic delay lines   | DEF Forecasting of computer requirements   | digital simulation   |
|                                 | associative memory   | by the use of predictive modeling and estimating   | distributed interactive simulation   |
|                                 | cards  | computer workloads.  | RT algorithms  |
|                                 | central processing units   | GS simulation  | altitude simulation  |
| ~                               | channels   | . systems simulation   | computational astrophysics   |
|                                 | cryosar  | computer systems simulation  | computational chemistry  |
| ~                               | equipment  | RT analog simulation   | computer aided design  |
|                                 | flip-flops   | data processing equipment  | computer aided manufacturing   |
|                                 | hole burning   | digital simulation   | computer aided mapping   |
|                                 | magnetic storage   | hardware description languages   | computer animation   |
|                                 | memory (computers)   | mathematical models  | computers  |
|                                 | microprocessors  | operations research  | control simulation   |
|                                 | optical memory (data storage)  | simulators   | differential analyzers   |
|                                 | parametrons  | ∞ systems  | flight simulation  |
|                                 | peripheral equipment (computers)   | systems analysis   | hardware-in-the-loop simulation  |
|                                 | punched cards  | dy didnie difdiyolo  | highly maneuverable aircraft   |
|                                 | punched tapes  | computer techniques  | hydraulic analogies  |
|                                 | random access  | GS computer techniques   | landing simulation   |
|                                 | shift registers  | . computer aided design  | Lennard-Jones potential  |
| ~                               | storage  | IPAD   | mathematical models  |
|                                 | thin films   | . computer aided manufacturing   | ∞ missile simulators   |
|                                 | and the second section of the section o | . computer aided mapping   | molecular dynamics   |
|                                 | er systems design  | . computer aided tomography  | motion simulators  |
| GS                              | systems engineering  | . computer animation   | multiscale models  |
| БТ                              | computer systems design  | . computer assisted instruction  | numerical flow visualization   |
| RT                              | client server systems  | RT adaptive optics   | numerical weather forecasting  |
|                                 | computer security  | ARPA computer network  | operations research  |
|                                 | concurrent processing  | backpropagation (artificial intelligence)  | scientific visualization   |
| ~                               | design   | belief networks  | simulated annealing  |
|                                 | disk operating system (DOS)  | computational chemistry  | systems simulation   |
|                                 | distributed processing   | computers  | target simulators  |
|                                 | firewalls (computers)  | decision support systems   | three dimensional models   |
|                                 | interprocessor communication   | flight management systems  | two dimensional models   |
|                                 | man machine systems  | knowledge beend eveteme  |  |
|                                 |  | knowledge based systems  | virtual reality  |
|                                 | operating systems (computers)  | management information systems   | virtual reality  |
|                                 | operating systems (computers) peripheral equipment (computers)   |  | ,  |
|                                 | operating systems (computers)<br>peripheral equipment (computers)<br>programmable logic devices  | management information systems   | computers  |
|                                 | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices   | management information systems management methods  | computers GS data processing equipment   |
|                                 | operating systems (computers)<br>peripheral equipment (computers)<br>programmable logic devices<br>read-only memory devices<br>relational data bases   | management information systems<br>management methods<br>management systems   | computers  GS data processing equipment . computers  |
|                                 | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture   | management information systems<br>management methods<br>management systems<br>microprocessors  | computers GS data processing equipment . computers analog computers  |
|                                 | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems   | computers  GS data processing equipment . computers . analog computers EAI 680 computer  |
|                                 | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms  | computers  GS data processing equipment . computers . analog computers EAI 680 computer Honeywell 600/6000 computer  |
| œ                               | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers   | computers  GS data processing equipment . computers . analog computers EAI 680 computer Honeywell 600/6000 computer SIGMA 5 computer   |
| «                               | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers  |
|                                 | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computer . Univac 1105 computer  |
| comput                          | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems er systems performance   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms  | computers  GS data processing equipment . computers . analog computers EAI 680 computer Honeywell 600/6000 computer SIGMA 5 computer Univac 1100 series computers Univac 1105 computer Univac 1106 computer  |
| comput<br>DEF                   | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that char-  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer   |
| comput<br>DEF<br>acterize       | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system.  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1107 computer . Univac 1108 computer   |
| comput<br>DEF                   | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charther real operation of the system. consistency   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989)  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1108 computer . Univac 1108 computer   |
| comput<br>DEF<br>acterize       | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance  The efficiency and reliability that charther eal operation of the system. consistency data sampling   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computer . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1108 computer . Univac 1108 computer . Univac 1110 computer . CDC computers   |
| comput<br>DEF<br>acterize       | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charther real operation of the system. consistency data sampling efficiency  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computer . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1110 computer . Univac 1110 computer . Univac 1110 computer . CDC computers . CDC 160-A computer   |
| comput<br>DEF<br>acterize       | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programming   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1110 computer . Univac 1110 computer . CDC computers . CDC 160-A computer . CDC 160-A computer   |
| comput<br>DEF<br>acterize       | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programing computer programs  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1110 computer . CDC computers . CDC 160-A computer . CDC 160-A computer . CDC 3100 computer  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer security  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computer . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1108 computer . CDC 160-A computer . CDC 160-A computer . CDC 3100 computer . CDC 3200 computer   |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer systems programs  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1110 computer . Univac 1110 computer . CDC computers . CDC 160-A computer . CDC 1604 computer . CDC 3100 computer . CDC 3200 computer . CDC 3600 computer   |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charther real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance performance performance tests   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer systems programs intrusion detection (computers)  | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer systems programs intrusion detection (computers) software engineering   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computers . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1110 computer . Univac 1110 computer . CDC computers . CDC 160-A computer . CDC 3100 computer . CDC 3200 computer . CDC 3800 computer   |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer systems programs intrusion detection (computers) software engineering  computer vision  | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computer . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1110 computer . CDC computers . CDC 160-A computer . CDC 3100 computer . CDC 3200 computer . CDC 3800 computer . CDC 3800 computer . CDC 3800 computer . CDC 6000 series computers . CDC 6400 computer  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability response time (computers)  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer security computer security computer systems programs intrusion detection (computers) software engineering  computer vision  DEF Capability of computers to analyze and  | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability response time (computers) RISC processors  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programming computer programs computer systems programs intrusion detection (computers) software engineering  computer vision  DEF Capability of computers to analyze and act on visual input.  | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance performance tests quality reliability response time (computers) RISC processors software reliability   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programing computer programs computer security computer systems programs intrusion detection (computers) software engineering  computer vision  DEF Capability of computers to analyze and act on visual input. UF machine vision   | computers  GS data processing equipment . computers . analog computers . EAI 680 computer . Honeywell 600/6000 computer . SIGMA 5 computer . Univac 1100 series computer . Univac 1105 computer . Univac 1106 computer . Univac 1107 computer . Univac 1108 computer . Univac 1108 computer . Univac 1110 computer . CDC computers . CDC 160-A computer . CDC 3100 computer . CDC 3200 computer . CDC 3200 computer . CDC 3800 computer . CDC 3800 computer . CDC 6000 series computer . CDC 6600 computer . CDC 6600 computer . CDC 6600 computer . CDC 6600 computer . CDC 6700 computer |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability response time (computers) RISC processors  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence   | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance performance tests quality reliability response time (computers) RISC processors software reliability systems   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence ∞ automation  | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charther real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance ests quality reliability response time (computers) RISC processors software reliability systems er systems programs   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer security computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence ∞ automation edge detection   | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output reprformance performance tests quality reliability response time (computers) RISC processors software reliability systems er systems programs computer programs  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programming computer programs computer security computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence  automation edge detection Gabor filters   | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability response time (computers) RISC processors software reliability systems  er systems programs computer programs . computer systems programs  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence  □ automation edge detection Gabor filters optical flow (image analysis)  | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output reprformance performance tests quality reliability response time (computers) RISC processors software reliability systems er systems programs computer programs  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence ∞ automation edge detection Gabor filters optical flow (image analysis) pattern recognition   | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability response time (computers) RISC processors software reliability systems er systems programs computer programs . computer systems programs . assembler routines . input/output routines  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programs computer programs computer security computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence  □ automation edge detection Gabor filters optical flow (image analysis) pattern recognition position sensing   | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance ests quality reliability response time (computers) RISC processors software reliability systems er systems programs computer programs computer systems programs . assembler routines . input/output routines . operating systems (computers)   | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programming computer programs computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence ∞ automation edge detection Gabor filters optical flow (image analysis) pattern recognition position sensing robot sensors   | computers  GS data processing equipment  |
| comput<br>DEF<br>acterize<br>RT | operating systems (computers) peripheral equipment (computers) programmable logic devices read-only memory devices relational data bases service oriented architecture software development tools software engineering systems virtual memory systems  er systems performance The efficiency and reliability that charthe real operation of the system. consistency data sampling efficiency evaluation operator performance output performance performance tests quality reliability response time (computers) RISC processors software reliability systems  er systems programs computer systems programs . assembler routines . input/output routines . operating system (computers) . disk operating system (DOS)  | management information systems management methods management systems microprocessors NASTRAN numerical differentiation on-line systems parsing algorithms personal computers sorting algorithms spreadsheets word processing  computer viruses (added March 1989) RT computer information security computer program integrity computer programming computer programs computer systems programs intrusion detection (computers) software engineering  computer vision DEF Capability of computers to analyze and act on visual input. UF machine vision RT artificial intelligence  □ automation edge detection Gabor filters optical flow (image analysis) pattern recognition position sensing robot sensors robotics   | computers  GS data processing equipment  |
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## Comsat program

| CDC 3800 computer              | Univac 1105 computer   | HAL/S (language)                            |
|--------------------------------|--|---|
| CDC 6000 series computers      | Univac 1106 computer   | ∞ hardware                                  |
| CDC 6400 computer              | Univac 1107 computer   | information retrieval                       |
| •                              | Univac 1108 computer   | information theory                          |
| CDC 6600 computer              |  | Intel 8080 microprocessor                   |
| CDC 6700 computer              | Univac 1110 computer   | logic circuits                              |
| CDC 7000 series computers      | Univac 80 computer   | machine-independent programs                |
| CDC 7600 computer              | Univac 418 computer  |   |
| CDC 8090 computer              | Univac 490 computer  | ∞ machinery                                 |
| CDC Cyber 170 series computers | Univac 494 computer  | memory (computers)                          |
| CDC Cyber 175 computer         | Univac 1230 computer   | multiprocessing (computers)                 |
| CDC Cyber 74 computer          | Univac Larc computer   | printers (data processing)                  |
|                                |  | read-only memory devices                    |
| CDC Cyber 174 computer         | VAX computers  | real time operation                         |
| CDC Cyber 203 computer         | VAX-11 series computers  | run time (computers)                        |
| CDC Cyber 205 computer         | VAX-11/780 computer  | telecommunication                           |
| CDC Star 100 computer          | embedded computer systems  | vocoders                                    |
| EAI 680 computer               | airborne/spaceborne computers  |   |
| EAI 8400 computer              | hybrid computers   | Comsat program                              |
| EAI 8900 computer              | . hypercube multiprocessors  |   |
| EMR 6050 computer              | IBM computers  |   |
| Ferranti Mercury computer      | IBM 360 computer   | . Comsat program                            |
| GE computers                   | IBM 370 computer   | RT communication satellites                 |
|                                |  | Early Bird satellites                       |
| GE 625 computer                | IBM 650 computer   | Telstar project                             |
| GE 635 computer                | IBM 704 computer   | Telstar satellites                          |
| Hewlett-Packard computers      | IBM 709 computer   |   |
| Honeywell computers            | IBM 1130 computer  | ComStar C                                   |
| DDP 516 computer               | IBM 1401 computer  | DEF The third in a series of Comsat domes-  |
| Honeywell 600/6000 computer    | IBM 1410 computer  | tic communications satellites launched in a |
| Honeywell ADEPT computer       | IBM 1620 computer  |   |
| Honeywell DDP 116 computer     | IBM 2250 computer  | transfer orbit by NASA for COMSAT.          |
| IBM 360 computer               |  | GS artificial satellites                    |
| •                              | IBM 7030 computer  | . communication satellites                  |
| IBM 370 computer               | IBM 7040 computer  | Communications Technology                   |
| IBM 650 computer               | IBM 7044 computer  | Satellite                                   |
| IBM 704 computer               | IBM 7070 computer  | ComStar C                                   |
| IBM 709 computer               | IBM 7074 computer  | •   |
| IBM 1130 computer              | IBM 7090 computer  | ComStar satellites                          |
| IBM 1401 computer              | IBM 7094 computer  |   |
| IBM 1410 computer              | IBM personal computers   | DEF Series of domestic Comsat communi-      |
|                                |  | cation satellites.                          |
| IBM 1620 computer              | MINOS computer   | GS artificial satellites                    |
| IBM 2250 computer              | optical computers  | . communication satellites                  |
| IBM 7030 computer              | Pegasus computer   | ComStar satellites                          |
| IBM 7040 computer              | RCA computers  | RT satellite networks                       |
| IBM 7044 computer              | RCA spectra 70 computer  |   |
| IBM 7070 computer              | RCA-110 computers  | concatenated codes                          |
| IBM 7074 computer              | Siemens 2002 computer  | DEF Two or more codes which are encoded     |
| IBM 7090 computer              | site data processors   |   |
|                                |  | and decoded in series.                      |
| IBM 7094 computer              | supercomputers   | RT binary codes                             |
| ICL computers                  | Connection Machine   | ∞ codes                                     |
| Illiac computers               | Cray computers   | coding                                      |
| Illiac 3 computer              | transputers  | data transmission                           |
| Illiac 4 computer              | Univac computers   | decoding                                    |
| microcomputers                 | Univac 1100 series computers   | error correcting codes                      |
| personal computers             | Univac 1105 computer   | redundancy encoding                         |
| IBM personal computers         | the contract of the contract o |   |
|                                | Univac 1106 computer   | Reed-Solomon codes                          |
| Macintosh personal computers   | Univac 1107 computer   | signal encoding                             |
| minicomputers                  | Univac 1108 computer   | trellis coding                              |
| Nova computers                 | Univac 1110 computer   |   |
| Modcomp II computer            | Univac 80 computer   | concavity                                   |
| Modcomp IV computer            | Univac 418 computer  | RT contour sensors                          |
| parallel computers             | Univac 490 computer  | contours                                    |
| massively parallel processors  | Univac 494 computer  | convexity                                   |
| Connection Machine             | Univac 1230 computer   | flatness                                    |
| MIMD (computers)               | Univac Larc computer   | shapes                                      |
| SIMD (computers)               | quantum computers  | snapes<br>∞ surface geometry                |
|                                |  | ∞ surface geometry                          |
| PDP 15 computer                | RT applications programs (computers)   |   |
| PDP computers                  | arithmetic and logic units   | concentrating                               |
| PDP 7 computer                 | artificial intelligence  | RT accumulations                            |
| PDP 8 computer                 | automata theory  | adsorption                                  |
| PDP 9 computer                 | ∞ automation   | agglomeration                               |
| PDP 10 computer                | calculators  | beneficiation                               |
| PDP 11 computer                | central processing units   | centrifuging                                |
| PDP 11/20 computer             | computation  | classifiers                                 |
| •                              |  |   |
| PDP 11/40 computer             | computer compatible tapes  | coagulation                                 |
| PDP 11/45 computer             | computer components  | coalescing                                  |
| PDP 11/50 computer             | computer design  | compressing                                 |
| PDP 11/70 computer             | computer graphics  | ∞ concentration                             |
| PDP 12 computer                | computer program integrity   | concentrators                               |
| Philco 2000 computer           | computer programs  | condensing                                  |
| Raytheon computers             | computer systems programs  | crystallization                             |
| RCA spectra 70 computer        | computer techniques  | distillation                                |
|                                |  |   |
| SDS 900 series computers       | computerized simulation  | drying                                      |
| SDS 930 computer               | control data (computers)   | enrichment                                  |
| SDS 9300 computer              | control units (computers)  | evaporation                                 |
| SEL computers                  | cybernetics  | extraction                                  |
| sequential computers           | data converters  | filtration                                  |
| SIGMA 5 computer               | data processing  | flocculating                                |
| SIGMA computers                | digital to voice translators   | flotation                                   |
| SIGMA 9 computer               |  |   |
|                                | file maintenance (computers)   | percolation                                 |
| Solomon computers              | fixed point arithmetic   | precipitation (chemistry)                   |
| Univac 1100 series computers   | floating point arithmetic  | ∞ separation                                |

separators transport aircraft rectification settling Concorde aircraft condensation nuclei sorption Liquid or solid particles upon which stress concentration condensation of water begins in the atmoupgrading concrete structures sphere. vaporizing DEF Buildings, dams, stadiums, etc., con-GS condensation nuclei structed entirely of a mixture of aggregates, ∞ concentration Aitken nuclei water, and Portland cement. (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) RT SN aerosols aggregates cloud physics breakwaters clouds (meteorology) The quantity of a substance contained construction ∞ condensation in a unit quantity of sample. earthquake resistant structures condensing concentrating foundations drops (liquids) concentration (composition) ∞ materials ice nuclei crowding rigid structures meteorology filtration ∞ structures microparticles isotopic enrichment towers nucleation nuclei concentration (composition) concretes rain volume fraction DEF Homogeneous mixtures of portland ce-GS composition (property) ment, aggregates, and water and which may condensation pumps concentration (composition) GS pumps contain admixtures. . . atom concentration RT admixtures . vacuum pumps . . carbon dioxide concentration aggregates condensation pumps . . fiber volume fraction cements vacuum apparatus . . low concentrations . vacuum pumps ∞ construction materials . . mascons arout condensation pumps . . meteoroid concentration insulation . . moisture content masonry condensation trails . . . atmospheric moisture mortars (material) USE contrails RT ∞ concentration pavements dilution condensed matter physics structural members particulate sampling RT Bose-Einstein condensates purity matter (physics) quality concurrent engineering negative matter (added September 1994) sampling ∞ physics ∞ saturation Use of multi-disciplinary teams to per-∞ solid state physics solubility form simultaneous design of products and production processes from conception through discondenser radiators concentrators posal. condensers (liquefiers) GS concentrators RT design to cost heat radiators . spirals (concentrators)  $\infty \, engi\bar{n} eering$ accumulators industrial management ∞ condensers centrifuges life cycle costs (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN classifiers multidisciplinary research ∞ classifying product development columns (process engineering) capacitors reliability engineering condensers (liquefiers) concentrating systems engineering evaporators iet condensers total quality management photographic rectifiers filtration value engineering fluid filters condensers (liquefiers) precipitators concurrent processing condenser radiators radiative heat transfer data processing GS condensers (liquefiers) separators . concurrent processing jet condensers size separation architecture (computers) absorbers (equipment) air conditioning sizing screens computer systems design solar collectors MIMD (computers) air conditioning equipment stills multiprocessing (computers) cold traps thermal radiation parallel processing (computers) columns (process engineering) traps SIMD (computers) compressors washers (cleaners) condensates condensers concentric cylinders condensates condensing RT ∞ cylinders GS condensates cooling fins cylindrical shells Bose-Einstein condensates hydrometeors cooling systems Aitken nuclei 
∞ condensation concentric spheres distillation equipment drying apparatus DEF Structures in which the space between the spheres is utilized for experiments involving evaporators condensers (liquefiers) exhaust systems fluid flow, etc. condensing film condensation symmetrical bodies GS contrails . bodies of revolution heat exchangers drop size . . spheres heat pumps liquefied gases liquefied gases . . concentric spheres plumes RT concentricity refrigerating machinery vapors separators concentricity spacecraft radiators ∞ condensation RT ∞ centers vaporizers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.-CONSULT THE TERMS LISTED BELOW) The physical process by which a vapor concentric spheres condensing eccentricity gas liquefaction becomes a liquid or solid; the opposite of evapocondensing Concorde aircraft GS jet aircraft ration. Specifically, in meteorology, the transfor-. film condensation mation from vapor to liquid. . turbofan aircraft association reactions Concorde aircraft condensates cloud physics Sud Aviation aircraft condensation nuclei concentrating condensing gas-metal interactions . Concorde aircraft condensates supersonic aircraft ∞ condensation

liquefaction

Mayer problem

. supersonic transports

... Concorde aircraft

condensation nuclei

condensers (liquefiers)

cooling . conducting polymers rent density per unit electrical-potential gradient dehumidification dendrimers in the direction of flow. dew point electroactive polymers atmospheric conductivity distillation organic semiconductors electrical properties polyacetylene electrical resistivity drop size drops (liquids) polymeric films fluid flow impedance evaporation polymers gas-liquid interactions polypyrroles ionospheric conductivity gas-metal interactions semiconductors (materials) magnetoresistivity nucleation mobility Ohms law phase change materials ∞ conduction (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS phase transformations SN photoconductivity refrigerating plasma conductivity DEF The transfer of energy within and through a conductor by means of internal par-∞ saturation superconducting power transmission ∞ separation superconductivity sublimation thermal conductivity ticle of molecular activity and without any net supercooling transconductance external motion. Used for conducting. supersaturation transport properties UF conducting void ratio attenuation conditioned reflexes conductive heat transfer reflexes GS convection . conditioned reflexes conductivity meters electric conductors GS measuring instruments conditioning (learning) electric power transmission . conductivity meters reaction time heat transfer . . electrical conductivity meters heating conditioned responses refraction USE conditioning (learning) sound propagation conductors sound transmission ∞ conditioning DEF Substances or entities which transmit thermal conductors SN (USE OF A MORE SPECIFIC TERM IS electricity, heat, or sound. Used for conducting thermal diffusion RECOMMENDED--CONSULT THE TERMS LISTED BELOW) media. transmission UF conducting media beneficiation wave propagation GS conductors conditioning (learning)
power conditioning . bus conductors conduction bands . electric conductors preconditioning DFF A range of states in the energy spec-. . beam leads trum of a solid in which electrons can move conditioning (learning)
UF conditioned responses . . conducting polymers freely . . electric wire GS energy bands . electrolytes GS learning conduction bands conditioning (learning) . . anolytes RT band structure of solids . catholytes behavior ∞ bands biofeedback . . ion exchange membrane Brillouin zones electrolytes conditioned reflexes electron transitions . . jumpers ∞ conditioning Franck-Condon principle . . molten salt electrolytes habituation (learning) NDM semiconductor devices . . nonaqueous electrolytes inhibition (psychology) polarons solid electrolytes porous silicon . flat conductors conditioning (treating) quantum wells . . beam leads USE treatment semiconductors (materials) . photoconductors trapping . superconductors (materials) conditions . . high temperature superconductors GS conditions conduction electrons . . . BSCCO superconductors adiabatic conditions particles ... YBCO superconductors . boundary conditions . charged particles ... heavy fermion superconductors . . perfectly matched layers . . energetic particles . . organic superconductors . chronic conditions . . . electrons . thermal conductors . flight conditions .... conduction electrons antennas . Kutta-Joukowski condition . corpuscular radiation conducting fluids . Lipschitz condition . . energetic particles exploding wires . nonadiabatic conditions . . . electrons metals . nonequilibrium conditions . . conduction electrons nonferrous metals runway conditions . elementary particles organic semiconductors in vitro methods and tests . . fermions semiconductors (materials) in vivo methods and tests ...leptons subreflectors . . . . electrons Condor missile . . . . conduction electrons GS missiles RT free electrons cones . air to surface missiles quantum wells (LIMITED TO MATERIAL OBJECTS) ... Condor missile valence Geometric configurations having a circular bottom and sides tapering off to an apex conductance conductive heat transfer (as in nose cones). Used for conical flare and USE resistance heat conduction fusiform shapes. GS transmission conical flare conducting . heat transmission fusiform shapes conduction USE . . heat transfer cones ... conductive heat transfer . circular cones conducting fluids RT ∞ conduction . conical bodies (EXCLUDES PLASMAS) convective heat transfer conductors . slender cones laminar heat transfer electrolytes . half cones thermal conductivity ∞ fluids . Mach cones thermal conductors magnetohydrodynamics . nose cones . . ablative nose cones ∞ conductivity conducting media . . rocket nose cones SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED-CONSULT THE TERMS
LISTED BELOW)
DEF The ability to transmit, as electricity,
heat, sound, etc. A unit measure of electrical
conduction; the facility with which a substance USE conductors . shatter cones aerodynamic configurations

conducts electricity, as represented by the cur-

bodies of revolution

conical shells

conics

frustums

conducting polymers (added January 1990)

conductors

electric conductors

|               | symmetrical bodies  | changes         | s to those characteristics, record and             |                | ischemia                                 |
|---------------|---|-----------------|--|----------------|--|
|               | -,  |                 | change processing and implementation               |                | pneumonia                                |
|               | (volcanoes)   |                 | and verify conformance with specified              |                | respiratory diseases                     |
| UF            | cinder cones  | requirer        |  |                | vasodilation                             |
| GS            | geology   | GS              | management   | •              | (B                                       |
|               | cones (volcanoes)   |                 | configuration management                           |                | (Brazzaville)                            |
|               | landforms   | RI •            | configurations                                     | UF             | Brazzaville                              |
| RT            | cones (volcanoes) basalt  | ∞ configu       | rations  | GS             | French Equatorial Congo nations          |
| IXI           | calderas  | ∞ coningt<br>SN | (USE OF A MORE SPECIFIC TERM IS                    | 00             | . Congo (Brazzaville)                    |
|               | craters   | OIN             | RECOMMENDEDCONSULT THE TERMS                       | RT             | Africa                                   |
|               | effusives   | рт              | LISTED BELOW)                                      |                |  |
|               | geomorphology   | RT              | aerodynamic configurations aircraft configurations | Congo          | (Kinshasa)                               |
|               | lava  |                 | body-wing and tail configurations                  | USE            | Democratic Republic of Congo             |
|               | Mars volcanoes  |                 | canard configurations                              |                |  |
|               | mountains   |                 | configuration management                           | congres<br>USE | conferences                              |
|               | orography   |                 | launch vehicle configurations                      | USL            | Contenences                              |
|               | paleomagnetism  |                 | missile configurations                             | congre         | ssional reports                          |
|               | petrology<br>Rouse belts  |                 | propulsion system configurations                   | ŰF             |  |
|               | volcanoes   |                 | spacecraft configurations                          | GS             | documents                                |
|               | volcanology   |                 | staggering   |                | . congressional reports                  |
|               |   |                 | torpedoes  |                | reports                                  |
| confere       | ences   | confine         | ment   | БТ             | congressional reports                    |
| UF            | congresses  | RT              | astronaut performance                              | RT             | Presidential reports                     |
|               | meetings  |                 | containment  | congru         | ences                                    |
|               | proceedings   |                 | isolation  | GS             | number theory                            |
| DT            | symposia  |                 | magnetic compression                               |                | . congruences                            |
| RT            | Committee on Space Research   |                 | nuclear reactor control                            | RT ∘           | coherence                                |
|               | consulting conventions  |                 | plasma control                                     |                | collocation                              |
| _             | discussion  |                 | plasma equilibrium                                 |                | dividing (mathematics)                   |
|               | documentation   |                 | sensory deprivation                                |                | geometry                                 |
|               | documents   | confini         | na   |                | identities                               |
|               | papers  | confini<br>RT   | astronaut performance                              |                | integers                                 |
|               | reports   | IXI             | deprivation  |                | symmetry                                 |
|               | Starsite program  |                 | isolation  | conical        | bodies                                   |
|               | teleconferencing  |                 | sensory deprivation                                | UF             | conoids                                  |
|               | video conferencing  |                 | , ,  | GS             | cones                                    |
|               |   | confirm         | ation  |                | . conical bodies                         |
| confide<br>RT | correlation   | USE             | proving  |                | slender cones                            |
| IXI           | errors  |                 |  |                | symmetrical bodies                       |
|               | probability theory  | conflue         |  |                | . bodies of revolution                   |
|               | psychological effects   | USE             | convergence  |                | conical bodies                           |
|               | quality control   | conforr         | mal mapping  | RT             | slender cones                            |
|               | reliability   | UF              | conformal transformations                          | KI             | afterbodies axisymmetric bodies          |
|               | risk  | GS              | analysis (mathematics)                             |                | axisyiiiiietiic bodies                   |
|               | statistical analysis  |                 | . complex variables                                | conical        | camber                                   |
|               |   |                 | conformal mapping                                  | GS             | camber                                   |
| DEF           | ence limits   |                 | functions (mathematics)                            |                | . conical camber                         |
|               | In statistics, the upper and lower ex-<br>of the confidence interval. |                 | conformal mapping                                  | RT             | wing camber                              |
| RT            | contingency   | RT              | coordinate transformations                         |                | a  |
| IXI           | estimates   |                 | Euler-Cauchy equations                             | conical        |  |
|               | forecasting   |                 | graphs (charts) invariant imbeddings               | USE            | cones                                    |
|               | maximum likelihood estimates  |                 | isoparametric finite elements                      | conical        | flow                                     |
| c             | measurement   |                 | Jacobi integral                                    |                | fluid flow                               |
|               | null hypothesis   |                 | Lighthill method                                   |                | . conical flow                           |
|               | precision   |                 | minimal surfaces                                   | RT             | axisymmetric flow                        |
|               | predictions   |                 | Schwarz-Christoffel transformation                 |                | baffles                                  |
|               | quality control   |                 | Theodorsen transformation                          | ۰              | o diffusers                              |
|               | range (extremes) reliability  | ,               |  |                | multiphase flow                          |
|               | risk  |                 | nal transformations                                |                | separated flow<br>three dimensional flow |
|               | sampling  | USE             | conformal mapping                                  |                | wall flow                                |
|               | significance  | confusi         | ion  |                | wedge flow                               |
|               | standard deviation  | RT              | entrapment   |                | neage nen                                |
|               | statistical analysis  |                 | tangling   | conical        | inlets                                   |
|               | statistical tests   |                 |  | GS             | intake systems                           |
| c             | ∘ tests   | congen          |  |                | conical inlets                           |
|               | variance (statistics)   | RT •            | chemical compounds                                 | RT             | air intakes                              |
| configu       | ration interaction  |                 | classifications                                    |                | conical nozzles                          |
| DEF           | In physical chemistry, the interaction                                |                 | isomers<br>muscles                                 |                | funnels                                  |
|               | n two different possible arrangements of                              |                 | tautomers  | conical        | nozzles                                  |
|               | etrons in an atom or molecule.  |                 | tadiomers  | RT             | annular nozzles                          |
| RT            | computational chemistry   | congen          | ital anomalies                                     |                | conical inlets                           |
|               | electron orbitals   | ŰF              | congenital conditions                              |                | convergent nozzles                       |
| c             | o interactions  | RT              | chromosome aberrations                             |                | convergent-divergent nozzles             |
|               | intermolecular forces   |                 | chromosomes  |                | divergent nozzles                        |
|               | molecular interactions  |                 | genetics   |                | exhaust diffusers                        |
|               | molecular structure   |                 | heredity Phosus factor                             |                | exhaust nozzles                          |
| c             | o structures  |                 | Rhesus factor                                      |                | hypersonic nozzles inlet nozzles         |
| configu       | ration management   | concen          | ital conditions                                    | ~              | ∘ jet nozzles                            |
|               | A discipline applying technical and ad-                               |                 | congenital anomalies                               |                | nozzle geometry                          |
|               | tive direction and surveillance to: iden-                             |                 | <b>9</b>   |                | nozzle inserts                           |
| tify and      | document the functional and physical                                  | conges          |  |                | nozzle walls                             |
| charact       | eristics of a configuration item, control                             | RT              | circulation  | 0              | ∘ nozzles                                |

#### conical scanning

plug nozzles RT lines of force ligaments rocket nozzles magnetic fields musculoskeletal system skirts conjugated circuits sonic nozzles Branches of an electrical network conspike nozzles connectors figured so that a change in the electromotive GS connectors spray nozzles supersonic nozzles force in either branch does not result in a current . electric connectors transonic nozzles change in the other. . umbilical connectors turbine exhaust nozzles circuits . unions (connectors) conjugated circuits adapters wind tunnel nozzles cordage conjugates couplings conical scanning DEF Scanning in which the direction of analysis (mathematics) disconnect devices . complex variables maximum radiation generates a cone whose fasteners conjugates vertex angle is of the order of the beam width. fittings . conjugate points Such scanning may be either rotating of nutatflanges Cholesky factorization ing, according as the direction of polarization flat conductors rotates or remains unchanged. conjugate gradient method joints (junctions) scanning conjugation jumpers . conical scanning finite element method ∞ junctions examination İinkages conjugation field of view optical interconnects GS conjugation monitors sleeves . phase conjugation panoramic scanning ∞ terminals . four-wave mixing radar scanning yokes RT conjugates readers reading connectors (electric) ∞ conjunction USE electric connectors scanners (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN searching conoids surveillance USE conical bodies Boolean algebra conical shells occultation consciousness shells (structural forms) GS orbits conical shells GS perception probability theory . sensory perception RT cones set theory consciousness RT attention conics conjunctiva mental performance geometry GS anatomy recognition . Euclidean geometry . sense organs sleep deprivation . . analytic geometry . . eye (anatomy) ... conics . . . conjunctiva . . . . ellipses consecutive events membranes GS events . . . . hyperbolas conjunctiva consecutive events . . . . parabolas conjunctivitis RT intervals RT cones keratitis Petri nets half cones vision probability theory loci scheduling conjunctivitis conifers sequencing GS diseases sequential control GS plants (botany) . eye diseases . trees (plants) conjunctivitis time measurement . conifers . infectious diseases conservation RT deciduous trees . conjunctivitis GS conservation forests bacterial diseases . energy conservation timber identification conjunctiva RT agriculture  $\infty \, trees$ deforestation Connecticut drought coning motion energy policy (added June 1997) United States dynamic stability environment management Connecticut firebreaks gyration RT New Haven (CT) ∞ motion forest management motion stability **Connection Machine** forests nutation (added September 1992) habitats precession data processing equipment land use rotation . computers Newton second law spin stabilization . . digital computers nonconservative forces tumbling motion parity . . . parallel computers potable water . . . . massively parallel processors vaw .... Connection Machine regional planning conjugate gradient method . . supercomputers rural land use DEF An interactive method for solving a soil science . Connection Machine system of linear equations of dimension N which soils architecture (computers) terminates in at most N steps if no rounding water management interprocessor communication errors are encountered. Each iterate will bring water reclamation multiprocessing (computers) one closer to the solution. parallel processing (computers) analysis (mathematics) conservation element and solution element . numerical analysis (added June 2002) connections . . iteration USE joints (junctions) USE space-time CE/SE method .. conjugate gradient method conservation equations algorithms connective tissue RT Bernoulli theorem conjugates GS tissues (biology) continuity equation gradients connective tissue

. . adipose tissues

. . bone marrow

. cartilage

exoskeletons

ioints (anatomy)

bones

collagens

RT

∞ equations

conservation laws

GS laws

nonconservative forces

space-time CE/SE method

vorticity transport hypothesis

iterative solution

analysis (mathematics)

. complex variables

... conjugates

conjugate points

|  | . conservation laws  | ∞ constant  | magnetic flux   |
|--|--|---|---|
|  | CP violation   | Constellation program   | constraints   |
|  | momentum theory Newton Theory  | Constellation program (added July 2007)   | UF hindrance  |
|  | nonconservative forces   | DEF A NASA space program to create  | limitations   |
|  | space-time CE/SE method  | spacecraft for human spaceflight, consisting pri-   | restraints  |
| ,  | space-time CL/SL method  | marily of the Ares I and Ares V launch vehicles,  | GS constraints  |
| consiste   | encv   | the Orion crew capsule, the Earth Departure   | . meteorological parameters   |
|  | A property of a material determined by   | Stage and the Lunar Surface Access Module.  | Brunt-Vaisala frequency   |
|  | blete flow force relation.   | These spacecraft will be capable of performing a  | RT blocking   |
|  | accuracy   | variety of missions, from Space Station resupply  | constrictions   |
|  | computer systems performance   | to lunar landings.  | dynamic programming   |
|  | effort   | GS programs   | ∞ holding   |
|  | errors   | . NASA programs   | linear programming  |
|  | leveling   | NASA space programs   | nonlinear programming   |
|  | linearity  | Constellation program   | operations research   |
|  | measurement  | . space programs  | optimization  |
| ∞  | performance  | NASA space programs   | penalty function  |
| i  | precision  | Constellation program   | range (extremes)  |
| (  | quality  | RT Ares 1 launch vehicle  | retaining   |
|  | ratings  | Ares 5 cargo launch vehicle   |   |
|  | reliability  | Crew Exploration Vehicle  | constrictions   |
|  | tolerances (mechanics)   | manned space flight   | UF restrictions   |
|  | validity   | space exploration   | RT ∞ barriers   |
| '  | variability  |   | blocking  |
|  |  | constellations  | chokes (restrictions)   |
| consoles   |  | DEF Originally conspicuous configurations   | closures  |
|  | Arrays of controls and indicators for  | of stars; now regions of the celestial sphere   | constraints   |
|  | itoring and control of a particular se-  | marked by arbitrary boundary lines. GS constellations   | contracts<br>impedance  |
|  | of actions, as in the checkout of a  | . Andromeda Constellation   | · ·   |
|  | countdown action, or a launch proce-   | . Aries constellation   | plugging<br>∞ resistance  |
| dure.<br>GS (  | conceles   | . Auriga constellation  | retarders (devices)   |
|  | consoles . remote consoles   | . Cassiopeia constellation  | seals (stoppers)  |
|  | automatic typewriters  | . Centaurus constellation   | stopping  |
|  | computer components  | . Cepheus constellation   | оторринд  |
|  | control boards   | . Corona Borealis constellation   | constrictors  |
|  | data processing terminals  | . Cygnus constellation  | GS anatomy  |
|  | display devices  | . Lyra constellation  | . musculoskeletal system  |
|  | equipment  | . Orion constellation   | muscles   |
|  | flat panel displays  | . Sagittarius constellation   | constrictors  |
|  | head-up displays   | . Scorpius constellation  |   |
|  | man machine systems  | Scutum constellation  | construction  |
|  | manual control   | . Taurus constellation  | SN (EXCLUDES TYPES OF STRUCTURES  |
|  |  | RT celestial sphere   | UF erection   |
| consolid   | lation   | planispheres  | RT architecture   |
| RT ∞   | combination  | stars   | assembling  |
| (  | densification  | zodiac  | bridges (structures)  |
| 1  | liquid phase sintering   |   | buildings   |
|  |  |   | anianana  |
| (  | overconsolidation  | Constellation-X   | caissons  |
| (  | overconsolidation<br>stabilization   | (added February 2006)   | concrete structures   |
| \$   | stabilization  | (added February 2006) DEF Astronomical observatory comprised  | concrete structures<br>∞ construction materials   |
| consona  | stabilization unts (speech)  | (added February 2006) DEF Astronomical observatory comprised of several x-ray satellites orbiting in close prox-  | concrete structures<br>∞ construction materials<br>contractors  |
| consona<br>RT  | stabilization<br>unts (speech)<br>speech   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to  | concrete structures ∞ construction materials contractors contracts  |
| consona<br>RT :  | stabilization unts (speech) speech vowels  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant tele-  | concrete structures ∞ construction materials contractors contracts ∞ design   |
| consona<br>RT :  | stabilization<br>unts (speech)<br>speech   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.   | concrete structures  ∞ construction materials contractors contracts ∞ design excavation   |
| consona<br>RT :  | stabilization  ints (speech) speech vowels words (language)  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory   | concrete structures ∞ construction materials contractors contracts ∞ design   |
| consona<br>RT :  | stabilization  ints (speech) speech vowels words (language) t  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites   | concrete structures  ∞ construction materials contractors contracts ∞ design excavation fabrication   |
| consona<br>RT :<br>constant  | stabilization  ints (speech) speech vowels words (language)  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites  . scientific satellites  | concrete structures  ∞ construction materials contractors contracts ∞ design excavation fabrication highways  |
| consona<br>RT :<br>constant  | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites . scientific satellites astronomical satellites   | concrete structures  ∞ construction materials contractors contracts ∞ design excavation fabrication highways inspection   |
| constant SN RT   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites  . scientific satellites  | concrete structures  ∞ construction materials contractors contracts ∞ design excavation fabrication highways inspection installing  |
| constant SN RT   | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites astronomical satellites Constellation-X  | concrete structures  ∞ construction materials contractors contracts ∞ design excavation fabrication highways inspection installing layouts  |
| consona<br>RT:<br>Constant<br>SN:  | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control   |
| consona<br>RT:<br>Constant<br>SN:  | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry   |
| consona<br>RT :<br>constant<br>SN  <br>RT  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging  |
| constant   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards  |
| constant   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing  |
| constant  RT  SN  RT  CONSTANT  RT  CONSTANT  CONSTANT  USE  | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program   |
| constant SN RT CONSTANT CONSTANT CONSTANT USE CONSTANT   | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures  |
| constant SN RT CONSTANT CONSTANT CONSTANT USE CONSTANT   | stabilization  ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis  |
| constant SN Constant USE Constant USE  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant speed propellers variable pitch propellers volume balloons superpressure balloons  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X   | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis  |
| constant SN RT constant USE constant USE constant CONSTANT   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural design  |
| constant SN RT Constant USE Constant USE Constant COST   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures structural analysis structural design structural design structural engineering   |
| constant SN RT Constant USE Constant USE Constant COST   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys . constantan   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members   |
| constant SN Constant USE CONSTA | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  volume balloons superpressure balloons tan alloys . constantan copper  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys   |
| constant SN RT constant USE constant USE constant USE constant USE constant RT   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys . constantan copper nickel  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . castronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes . Constellation-X RT spaceborne astronomy x ray astronomy   | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural engineering structural members surveys tunneling (excavation)   |
| constant SN RT constant USE constant USE constant USE constant USE constant RT   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  volume balloons superpressure balloons tan alloys . constantan copper  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes . Constellation-X RT spaceborne astronomy x ray astronomy  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys   |
| constant SN RT Constant USE Constant USE Constant CONSTAN | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites   | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  |
| constant USE constant USE constant USE constant USE constant USE constant  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes . Constellation-X Spaceborne astronomy x ray astronomy  constitution  RT atomic structure governments  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  construction in space   |
| constant USE  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant speed propellers variable pitch propellers  volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples ts constants  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites   | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  |
| constant SN RT Constant USE Constant USE Constant CS CCONSTANT CCO | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes . Constellation-X RT spaceborne astronomy x ray astronomy  constitution RT atomic structure governments law (jurisprudence)  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  construction in space   |
| constant SN RT Constant USE Constant USE Constant CS CCONSTANT CCONSTANT CS CCONSTANT CS CCONSTANT CS CCONSTANT CS CCONSTANT CS CCONSTANT CCONSTAN | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples ts constants . Bohr magneton  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes . Constellation-X Spaceborne astronomy x ray astronomy  constitution  RT atomic structure governments  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural design structural design structural members surveys tunneling (excavation) welding  construction in space USE orbital assembly  |
| constant SN RT Constant USE Constant USE Constant CS RT GS RT CONSTANT GS RT CONSTANT GS RT CONSTANT GS  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples ts constants . Bohr magneton . gravitational constant   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory  GS artificial satellites   | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  construction in space USE orbital assembly  construction industry   |
| constant SN RT Constant USE Constant USE Constant CS RT   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples  ts constants . Bohr magneton . gravitational constant . Gruneisen constant   | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  construction in space USE orbital assembly  construction industry GS industries   |
| constant SN RT Constant USE Constant USE Constant CS RT CONSTANT CONSTANT CS RT   | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  volume balloons superpressure balloons  tan alloys . constantan copper nickel thermocouples  ts constants . Bohr magneton . gravitational constant . Gruneisen constant . Hubble constant  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X x ray telescopes . Constellation-X RT spaceborne astronomy x ray astronomy  constitution RT atomic structure governments law (jurisprudence)  constitutional diagrams USE phase diagrams                                  | concrete structures  construction materials contractors contracts  design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  construction industry GS industries . construction industry  GS industries . construction industry  construction industry GS industries . construction industry |
| constant SN RT Constant USE Constant USE Constant CS RT  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers  volume balloons superpressure balloons tan alloys . constantan copper nickel thermocouples ts constants . Bohr magneton . gravitational constant . Gruneisen constant . Hubble constant . Plancks constant  | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites . scientific satellites . astronomical satellites Constellation-X networks . satellite constellations Constellation-X observatories . astronomical observatories . astronomical satellites Constellation-X telescopes . spaceborne telescopes . Constellation-X telescopes . Constellation-X x ray telescopes . Constellation-X RT spaceborne astronomy x ray astronomy  constitution  RT atomic structure governments law (jurisprudence)  constitutional diagrams USE phase diagrams  constitutive equations | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural design structural engineering structural members surveys tunneling (excavation) welding  construction in space USE orbital assembly  construction industry  RT bridges (structures)   |
| constant SN RT Constant USE Constant USE Constant CSC RT CC RT CC  | stabilization  Ints (speech) speech vowels words (language)  t (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) coefficients constants invariance time constant  speed propellers variable pitch propellers volume balloons superpressure balloons  tan alloys . constantan copper nickel thermocouples  ts constants . Bohr magneton . gravitational constant . Hubble constant . Plancks constant . solar constant | (added February 2006)  DEF Astronomical observatory comprised of several x-ray satellites orbiting in close proximity to each other and working in unison to generate the observing power of one giant telescope.  UF Con-X observatory GS artificial satellites  | concrete structures  ∞ construction materials contractors contracts  ∞ design excavation fabrication highways inspection installing layouts maintenance masonry quality control reconstruction rigging shipyards space manufacturing Starsite program steel structures stress analysis structural analysis structural design structural members surveys tunneling (excavation) welding  construction in space USE orbital assembly  construction industry GS industries . construction industry RT bridges (structures) buildings                   |

 $\infty$ 

|                | towers   |                | supplying  |          | manufacturing  |
|----------------|--|----------------|--|----------|--|
|                | trusses  |                | utilization  |          | melting<br>orbital workshops                           |
| constru        | iction materials   | contact        | dermatitis   |          | space processing                                       |
| SN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | GS             | diseases   |          | weightlessness   |
|                | LISTED BELOW)  |                | . infectious diseases dermatitis                                 |          | t  |
| UF             | building materials   |                | contact dermatitis   | ∞ conta  |  |
| RT             | structural materials aggregates                              | RT             | allergic diseases  | 0.       | RECOMMENDEDCONSULT THE TERMS                           |
|                | aircraft construction materials                              |                | dermatology  | DEF      | LISTED BELOW)  A non-specific term for receptacles ca- |
|                | aircraft survivability                                       |                | epidermis<br>itching   | pable    | of closure. Used for receptacles (contain-             |
|                | airframe materials architecture                              |                | skin (anatomy)   | ers).    |  |
|                | bitumens   |                | (2,)   | UF<br>RT | , ,  |
|                | boards (paper)   | contact        |  | IXI      | autoclaves   |
|                | bricks   | GS             | lenses . contact lenses  |          | bags   |
|                | cements  | RT             | eyepieces  |          | barrels (containers)                                   |
|                | composite materials concretes                                |                | reticles   |          | baskets<br>biopaks                                     |
|                | construction   | contact        | loads  |          | bottles  |
|                | graphite-epoxy composites                                    | contact<br>DEF | Dynamic loading by contact between                               |          | boxes (containers)                                     |
|                | grout<br>insulation  | two bod        |  |          | bundles  |
|                | lathes   | GS             | loads (forces)   |          | cans<br>∞ capsules                                     |
|                | Masonite (trademark)   |                | . contact loads  |          | cartridges   |
|                | masonry  |                | impact loads rolling contact loads                               |          | cases (containers)                                     |
| 0              | materials  | RT             | compression loads  |          | crucibles  |
|                | materials selection panels                                   |                | dynamic pressure   |          | disposal   |
|                | plastics   |                | random loads   |          | drums (containers) enclosures                          |
|                | polymer matrix composites                                    | ~              | shock loads<br>sliding contact                                   |          | fuel tanks   |
|                | protective coatings  | •              | transient loads  |          | glassware  |
|                | reactor materials<br>skin (structural member)                |                |  |          | hoppers  |
|                | spacecraft construction materials                            |                | potentials   |          | housings<br>materials handling                         |
|                | structural members   |                | The potential differences at the junctwo dissimilar substances.  |          | micromodules   |
|                | i  | GS             | potential energy   |          | packages   |
| consult<br>RT  | conferences  |                | . electric potential   |          | packaging  |
|                | management planning  | DT             | contact potentials   |          | preserving<br>pressure vessels                         |
|                | personnel  | RT             | electric contacts<br>surface properties                          |          | protectors   |
|                | resources  |                | Surface properties   |          | reels  |
| consun         | nables (spacecraft)  |                | resistance   |          | spools   |
|                | All supplies for spacecraft and                              |                | The resistance to current flow between                           |          | sprayers<br>tanks (containers)                         |
|                | ews that will be consumed during a                           |                | ching bodies, consisting of constriction ce and film resistance. |          | transporter  |
| mission.<br>GS | consumables (spacecraft)                                     | GS             | electrical properties  |          | trays  |
| 00             | . storable propellants                                       |                | . electrical impedance   |          | wing tanks   |
| RT             | consumables (spacecrew supplies)                             |                | electrical resistance  | conta    | inment   |
|                | in situ resource utilization                                 |                | contact resistance impedance                                     | RT       |  |
|                | propellant storage space logistics                           |                | . electrical impedance   |          | blocking   |
|                | working fluids   |                | electrical resistance  |          | burst tests  |
|                |  |                | contact resistance   |          | confinement  |
|                | nables (spacecrew supplies)                                  | RT             | electric contacts  |          | retaining<br>sealing                                   |
| GS             | consumables (spacecrew supplies) . space rations             | ~              | nonohmic effect<br>resistance                                    |          | stopping   |
| RT             | clothing   |                | surface properties   |          |  |
|                | consumables (spacecraft)                                     |                |  |          | minants  |
|                | dehydrated food  | contact        |  | UF       | noxious materials pollutants                           |
| 0              | ofood<br>food production (in space)                          | SN<br>RT       | (EXCLUDES ELECTRIC SWITCHES) carburetors                         | GS       |  |
|                | hygiene  |                | chemical reactors  |          | . radioactive contaminants                             |
|                | potable water  |                | columns (process engineering)                                    | DT       | . trace contaminants                                   |
|                | provisioning   |                | electric switches<br>mixers                                      | RT       | biofilms biomass burning                               |
|                | sanitation<br>space flight feeding                           |                | sprayers   |          | chlorofluorocarbons                                    |
|                | space logistics  |                | -1 -3  |          | chlorofluoromethane                                    |
|                | survival equipment   |                | (electric)   |          | contamination  |
|                |  | USE            | electric contacts  |          | decontamination<br>diluents                            |
| consun<br>RT   | consumption  | contact        | s (geology)  |          | dirt   |
|                | market research  | GS             | geology  |          | dust   |
|                | marketing  |                | contacts (geology)   |          | effluents  |
|                | product development  | RT             | formations<br>metamorphism (geology)                             |          | environment effects environmental quality              |
| consun         | nption   |                | mineral deposits   |          | fuel contamination                                     |
| GS             | consumption  |                | rock intrusions  |          | hazardous materials                                    |
|                | energy consumption   |                | rocks  |          | hazardous wastes                                       |
|                | . fuel consumption   | contain        | orlogo molto   |          | heavy metals   |
|                | . oxygen consumption . propellant consumption                | GS             | erless melts<br>melts (crystal growth)                           |          | impurities<br>∞ materials                              |
|                | water consumption  |                | . containerless melts  |          | nonpoint sources                                       |
| RT             | commerce   | RT             | crystal growth   |          | particulates   |
|                | consumers  |                | crystallization  |          | pollution  |
|                | demand (economics) depletion                                 |                | crystals directional solidification (crystals)                   |          | purity<br>quality                                      |
|                | exhausting   |                | liquid bridges   |          | soil pollution   |
|                | exhaustion   |                | low gravity manufacturing  |          | volatile organic compounds                             |

wastes transcontinental systems . . continuous wave lasers water treatment argon lasers contingency carbon dioxide lasers confidence limits carbon monoxide lasers contamination correlation chemical oxygen-iodine lasers contamination GS estimates laser stability . fuel contamination expectation solid state lasers spacecraft contamination materials handling air pollution predictions continuous wave radar antifouling UF CW radar reserves antiinfectives and antibacterials GS radar biological hazards . continuous wave radar contaminants continuity coherent radar decontamination continuity (mathematics) Doppler radar environment effects coordination pulse radar fouling scheduling radar detection intrusion topology radar range molecular shields variability search radar nonpoint sources surveillance radar planetary protection continuity (mathematics) tracking radar pollution GS analysis (mathematics) purity . calculus continuous waves radioactive wastes . continuity (mathematics) USE continuous radiation water pollution RT continuity functions (mathematics) continuum flow content isoperimetric problem GS fluid flow GS content normal density functions . gas flow bone mineral content Poisson density functions . continuum flow RT ∞ components probability density functions free molecular flow ∞ composition regularity molecular flow ingredients statistical analysis rarefied gas dynamics slip flow symmetry content-addressable memory topology (added December 1999) continuum mechanics USE associative memory continuity equation RT Burger equation conservation equations classical mechanics continuum mechanics continuity equation Crocco-Lee theory continuum modeling DEF The composition, structure, or manner ∞ equations ∞ dynamics in which something is put together. Also refers to equations of motion flow theory the situation or environment of an event. equations of state fluid mechanics natural language (computers) fluid dynamics Maxwell bodies pattern recognition ∞ mechanics (physics) nonconservative forces steady flow multipolar fields context free languages solid mechanics languages continuous flow electrophoresis statistical mechanics . programming languages
. . context free languages USE electrophoresis stress tensors computer programming continuous noise continuum modeling symbolic programming continuum mechanics RT ∞ noise noise propagation continuums large space structures mathematical models continental drift sound generators continents continuous radiation Earth crust structural analysis continuous waves Earth planetary structure continuous radiation GS geomagnetism continuums modulated continuous radiation DEF Things that are continuous, which have no discrete parts as the continuum of real numbers as opposed to the sequence of disgeophysics absorption spectra background radiation coherent radiation corpuscular radiation RT paleomagnetism rumbers as opposed to the sequence of discrete integers, as the background continuum of a spectrogram due to thermal radiation.

RT continuum modeling probability theory continental margins USE continental shelves elastic waves electromagnetic radiation continental shelves real variables relativity emission spectra DEF The ocean floor that is between the pulsed radiation shoreline and the abyssal ocean floor, including □ radiation topology various provinces; the continental shelf; conti-∞ rays nental borderland; continental slope; and the CONTOUR (mission) continental rise. Used for continental margins. continuous spectra (added February 1999) continental margins DEF Spectra in which wavelengths, wave USE Comet Nucleus Tour geology numbers, and frequencies are represented by ocean bottom the continuum of real numbers or a portion contour sensors seamounts thereof, rather than by a discrete sequence of DEF The sensing of image coincidences by ∞ shelves numbers. For electromagnetic radiation, spectra means of optical processing techniques. that exhibit no detailed structure and represent a boundaries continents gradual variation of intensity with wavelength concavity GS continents from one end to the other, as the spectra of contours incandescent solids. For particles, spectra that . Africa convexity . Asia exhibit a continuous variation of the momentum imagery or energy. . Australia images ∞ sensors . Europe GS spectra . Central Europe continuous spectra shapes astronomical spectroscopy North America topography South America solar spectra Antarctic regions spectral emission contours

stellar spectra

stimulated emission devices

continuous wave lasers

lasers

Central Europe

continental drift

cratons

geography

mountains

curved surfaces concavity

contour sensors

curved panels

convexity

RT

#### contract incentives

datum (elevation) wakes engine control elevation environmental control flatness contralateral functions feedback control geomorphology RT ∞ functions feedforward control hypsography fire control mapping contrarotating propellers fire control circuits DEF Two propellers mounted on concentric shafts having a common drive and rotating in opposite directions. roughness flaps (control surfaces) shapes flight control topography flood control propellers GS fluidics contract incentives contrarotating propellers fly by tube control propeller drive propeller efficiency GS incentives fly by wire control . contract incentives frequency control motivation turboprop engines fuel control contract incentives ground based control contrast harmonic control contract management DEF In general, the degree of differentiation helicopter control GS management between different tones in an image. hydraulic control . contract management contrast integrated mission control center contracts . image contrast interactive control decision making . phase contrast inventory controls decisions RT character recognition jet control **PERT** color lateral control project management legibility linear parameter-varying control schedules perception linear quadratic Gaussian control subcontracts printing linear quadratic regulator longitudinal control systems engineering resolution ∞ sharpness magnetic control contract negotiation visibility manual control RT contractors vision MIMO (control systems) contracts missile control decision making ∞ control model reference adaptive control (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) government/industry relations multivariable control industries network control management UF control systems nuclear reactor control manufacturing controlled stability numerical control subcontracts regulation off-on control RT access control optical control contraction active control optimal control RT cooling adaptive control payload control ∞ reduction air navigation phase control shrinkage air traffic control plasma control spasms aircraft control pneumatic control altitude control pointing control systems contractors approach control pollution control columns (process engineering) construction porous boundary layer control astrionics attitude control process control (industry) construction industry proportional control automatic control contract negotiation quality control automatic control valves contracts automatic flight control radar approach control government/industry relations automatic frequency control radio control industries automatic gain control ∞ reaction control qualifications avionics regulations subcontracts biofeedback regulators transportation boundary layer control cascade control regulatory mechanisms (biology) remote control contracts chemical reaction control robot control GS contracts circulation control airfoils rocket engine control . insurance (contracts) circulation control rotors satellite attitude control . subcontracts combustion control satellite control scheduling agreements command and control cancellation control boards self adaptive control systems control configured vehicles control data (computers) constrictions sequential control construction servocontrol contract management control equipment servomechanisms contract negotiation control moment gyroscopes shape control contractors control rockets shock wave control estimates control rods SISO (control systems) estimating control simulation spacecraft control extensions control stability spectral shift control federal budgets control sticks spectral shift control reactor government procurement control surfaces speed control government/industry relations control systems design stabilization steering grants control theory leasing legal liability control units (computers) Submarine Integrated Control project control valves systems engineering options controllability tabs (control surfaces) procurement controlled atmospheres temperature control projects controlled fusion thermal control coatings proposals thrust control controllers revisions critical path method thrust vector control supplements cybernetics time optimal control direct lift controls traffic control trajectory control
Transit Attitude Control satellite directional control DEF Condensation trails. Artificial clouds dynamic characteristics made by the exhaust of jet aircraft. transponder control group dvnamic control

electric control

electronic control

elevators (control surfaces)

turbojet engine control

visual control

variable stream control engines

RT

condensation trails

vapor trails

condensates

voice control rocket, spacecraft, or the like. Used for steering . . . leading edge flaps wave incidence control . . . leading edge slats rockets. weather modification steering rockets . . . trailing edge flaps GS engines . . . vortex flaps . rocket engines . guide vanes control boards . . Vernier engines . jet vanes UF control panels RT consoles ... control rockets horizontal tail surfaces  $\infty$  control . torpedo engines . rudders display devices . . Vernier engines . . aerial rudders . . control rockets . . marine rudders manual control remote control RT ∞ control . spoilers . tabs (control surfaces) retrorocket engines aerodynamic brakes control configured vehicles steering thrust control aerodynamic configurations aircraft configurations variable thrust aerodynamic interference aircraft design aerodynamics ∞ control control rods aircraft parts flight control GS rods aircraft structures technology utilization . control rods airfoils ∞ vehicles  $\mathsf{RT} \mathrel{<\!\!\!>} \mathsf{control}$ airframes blunt trailing edges neutron absorbers control data (computers) nuclear reactor control boundary layer control RT computers nuclear reactors canard configurations ∞ control poisoning (reaction inhibition) ∞ control ∞ data reactor cores drag devices data systems reactor safety fins fires control devices control simulation flight control USE control equipment GS simulation free wing aircraft control simulation guidance (motion) control equipment aircraft control nose fins control devices computerized simulation stabilizers (fluid dynamics) GS control equipment ∞ control ∞ surfaces . control sticks control theory sweptback tail surfaces . pressure switches flight simulation T tail surfaces . regulators flight simulators tail assemblies . . automatic control valves hardware-in-the-loop simulation tail surfaces . . . pressure regulators motion simulators trapezoidal tail surfaces ... relief valves spacecraft control . . cryostats spacecraft maneuvers wings . . current regulators training simulators . . flow regulators control systems . fuel flow regulators control stability USE control oxygen regulators GS dynamic characteristics speed regulators . dynamic stability control systems design . . thermostats . control stability systems engineering . . voltage regulators stability . control systems design . servoamplifiers . dynamic stability aerospace systems automatic control . teleoperators aircraft control aircraft control automation automatic control aircraft spin aircraft stability bionics  $\infty$  control bond graphs ∞ effectors ∞ control ∞ control electric control controllability control theory electronic control flight control controllers feedback control loop transfer recovery cybernetics manipulators MIMO (control systems) ∞ design manual control motion stability design analysis nonlinear systems Nyquist diagram electric control off-on control pilot induced oscillation electronic control optical control robustness (mathematics) feedback control pneumatic control sampled data systems frequency domain analysis proportional control SISO (control systems) genetic algorithms recording instruments spacecraft motion H-2 control speed control spacecraft stability H-infinity control transducers stability augmentation linear parameter-varying control systems stability linear quadratic Gaussian control control moment gyroscopes linear quadratic regulator gyroscopes control sticks loop transfer functions control moment gyroscopes GS control equipment loop transfer recovery attitude control . control sticks mathematical models attitude gyros aircraft control membership functions attitude indicators MIMO (control systems) ∞ control ∞ control flight control numerical control equations of motion manual control operations research gimbals optimal control gyrodampers control surfaces parameter identification indicating instruments GS control surfaces robot control measuring instruments SISO (control systems) system identification . ailerons nutation dampers . . flaperons servocontrol . . spoiler slot ailerons systems analysis servomechanisms . elevators (control surfaces) systems integration elevons time domain analysis control panels . flaps (control surfaces) uncertain systems USE control boards

. . externally blown flaps
. . . upper surface blown flaps

. . flaperons

. . wing flaps

. . jet flaps

control rockets

DEF Vernier engines, retrorockets, or other such rockets, used to change the attitude of,

guide, or make small changes in the speed of a

control theory

adaptive control

control simulation

closed cycles

∞ control

|  | control avatama dacian                          | an atabiation                              | aclar convection (actronomy)                      |
|--|---|--|---|
| definition of plantment systems operation or controlled fusion of the devices used to the devices of the device |   | •  | •           |
| dynamics optional systems (USE CATT devices to control in processor of control of systems (USE CATT devices to control in teathbook control in teathbook control in teathbook control in teathbook control interdiscolor control control interdiscolor control interdisc |   |  |   |
| reduction feedorward control fee |   | spacecraft environments                    |   |
| fleedback control grame grame H-2 control H-shifting control H-shiftin | dynamic control                                 |  | RT advection                                      |
| iseafback control feedforward control feedforw | dynamical systems                               |  | base heating                                      |
| general particular designation or controlled fusion particular fusion planes and area of the fundamental particular fundamental fundamental particular fundamental funda | feedback  | USE CATT devices                           | Boussinesq approximation                          |
| teedforward control purpose Hurtingly control interactive control  | feedback control                                |  | buoyancy-driven flow                              |
| garnes H 2 control retail H 2 control retail H 3 control retail interactive control In | feedforward control                             | controlled fusion                          | * *   |
| First control interactive  |   | SN (CONTROLLED NUCLEAR FUSION)             |   |
| H-Infinity control interactive control interac |   |  |   |
| inlear quartatic causan control linear quartatic causan control model reference adaptive control multivariatic common control control control offers control c |   | . thermonuclear reactions                  |   |
| inner quadratic Galassian control linear quadratic regulator loop transfer recovery MRMO Coretor systems MRMO Coretor systems MRMO Coretor systems Control was a company of the control multivariable control multivariable control cheevership (yestems) plasma control plasma cooling plasma cool | •   |  | •   |
| The control valves  Control va |   |  |   |
| MMO control systems)  model reference adaptive control multivariatile control offen control offen control offen control optimal control optima |   |  |   |
| MMO (control systems) model reference adaptive control multivariable control cate-envolving (youterns) optimal control cate-envolving (youterns) optimal control robot con | linear quadratic regulator                      |  | heating   |
| mobile reference adaptive control multivariable control cheer control  | loop transfer recovery                          |  | meteorology                                       |
| model reference adaptive control multivariable control conternation of the control conternation of the control conternation of the control robot control robot control robot control shape control sha | MIMO (control systems)                          |  | mixing height                                     |
| multivariable control observability (systems) observab | model reference adaptive control                |  | mixing layers (fluids)                            |
| benerability (systems) off-on control optimal control optimal control optimal control optimal control optimal control optimal control strates (any systems) servocontrol shape control shape control shape control optimal systems servocontrol shape control optimal control  |   |  |   |
| office control optimal control |   | plasma currents                            |   |
| optimal control robot control robot control robotsness (mathematics) sampled data systems shape control SISO (control systems)  — theories robotsness (mathematics) sisted control systems SISO (control systems)  — theories ratching problem uncertain systems  — theories control units (computers)  DEF Those parts of computers that cause antimetric curit, storage, and transfer of a computers — control units (computers)  DEF Those parts of computers that cause RT central processing qualifiers — computers — computers — computers — control valves — co |   | plasma physics                             | convection cells                                  |
| ribest control robustness (mathematics) sampled data systems sampled data systems shape control sliSO (control systems) where the systems tracking problem uncertain systems tracking problem uncertain systems control units (computers) EFF Those parts of computers that cause computer to operate in proce systems computer components control valves EFT actuations control valves EFT actuation control valves CFT actuation control control preumatic control pre |   | relativistic electron beams                |   |
| robustness (mathematics) aamplied data systems ozda prince of the formonuclear power generation zota prince of the property of | ·   | strongly coupled plasmas                   |   |
| sampled data systems servocortiol shape control shape control stage (control systems)  whereirs where the computer of the comp |   |  |   |
| serviciontrol shape control sh |   |  |   |
| shape control SISO (control systems)  where the cries racking problem uncertain systems  control unst (computers) DEF Those parts of computers that cause the arithmetic unit, storage, and transfer of a computer to operate in proper sequence.  RT central processing units computers  comp | sampled data systems                            | zeta pinon                                 |   |
| she Controllers tracking problem uncertain systems Uncertain syste | servocontrol                                    | controlled stability                       |   |
| Stouched problem uncertain systems  Control units (computers)  Computer to operate in proper sequence.  RT central processing equipment  data processing equipment  data processing equipment  data processing equipment  data processing equipment  control valves  GS valves  R. control valves  GS valves  R. control valves  Control valves  Control valves  Control valves  Control valves  Control valves  R. control valves  Control valves  R. control valves  R. control valves  Control valves  R. valves   | shape control                                   |  | convective heat transfer                          |
| theories tracking problem tracking problem uncertain systems  control units (computers) DEF Those parts of computers that cause the arithmetic unit, storage, and transfer of a computer to operate in proper sequence. RT central processing units computer components component compone | SISO (control systems)                          | USE CONTROL                                |   |
| tracking problem uncertain systems Uncertain systems Uncertain systems Uncertain systems Uncertain systems Uncertain systems Units (computers) UEF Those pasts of computers that cause the arithmetic unit, storage, and transfer of a computer to operate in proper sequence. RT cantral processing units Computer to operate in proper sequence. RT cantral processing units Computers |   |  | convection clouds                                 |
| uncertain systems  Control units (computers)  DFF Those parts of computers that cause the arithmetic unit, storage, and transfer of a computer to operate the proper sequence.  RT computer to operate in proper sequence.  RT computer components  control valves  GS valves  control val |   |  | GS clouds (meteorology)                           |
| control units (computers)  DEF Those parts of computers that cause the arithmetic unit, storage, and transfer of a computer to operate in proper sequence.  RT central processing units computers to computers to computers computers computers.  **Control of computers computers computers computers computers computers computers.  **Control of computers computers computers computers computers.  **Control of computers computers computers.  **Control of computers computers computers.  **Control of computers computers.  **Control of control of control of control systems design coverage of control of control systems design coverage of control of c |   |  | 377   |
| DEF Those parts of computers that cause the arithmetic unit, storage, and transfer of a computer to perse sequence.  RT central processing units   | uncertain systems                               |  |   |
| DEF Those parts of computers that cause the arithmetic unit, storage, and transfer of a computer to operate in proper sequence.  RT central processing units computer components computers operate in proper sequence.  GIS valves automation control valves (SS valves) current regulators control valves (SIS valves) current regulators control valves (SIS valves) current regulators control valves (SIS valves) current regulators current regulators remote control valves (SIS valves) current regulators (SIS valves) current valves (SIS val |   |  |   |
| the arithmetic unit, storage, and transfer of a computer to operate in proper sequence.  RT central processing units computers computers computers computers automatic control control computers computers computers computers automatic control control data processing equipment control systems design  |   |  |   |
| computer to operate in proper sequence.  RT central processing units computer components computer components computer components computer components computer components computer components control data processing equipment data processing equipment data processing equipment data processing equipment control valves  C |   | . servomechanisms                          |   |
| RT control processing units computers computers computers automatic control control computers automatic control contro | the arithmetic unit, storage, and transfer of a | servoamplifiers                            |   |
| computer components computers computers computers computers control data processing equipment data processing equipment data processing equipment control valves Control valves GS valves control valves  | computer to operate in proper sequence.         | servomotors                                | anvil clouds                                      |
| computer components computers computers computers computers control data processing equipment data processing equipment data processing equipment control valves Control valves GS valves control valves  | RT central processing units                     | RT actuators                               | RT air currents                                   |
| computers  |   |  | cloud physics                                     |
| control valves GS valves GS valves Control valves GS valves Control valves Contro | ·   |  |   |
| data processing equipment  control valves CS valves  |   |  | · · · · · · · · · · · · · · · · · · ·             |
| control valves GS valves Control valves GS valves Control valves   |   |  |   |
| Control valves GS valves   | data processing equipment                       |  |   |
| GS valves control valves control valves control preumatic control pneumatic control  | control volves                                  |  | vertical all currents                             |
| Tactuators  control valves  control present control  controllability  DEF The capability of an aircraft, rocket, or other vehicle to respond to control, especially in direction or attitude. Used for handling qualities.  UF handling qualities optically in aircraft control aircraft performance aircraft specifications aircraft specifications aircraft specifications aircraft spin  aircraft stability  control stability  control stability  control stability  control benoy speed attability  control theory speed stability  control theory speed control of included present control helicopter performance helicopter performance helicopter performance liquid sloshing low speed stability  pilot ratings  pilot ratings  quality  spacecraft reliability  spacecraft reliability  controlled atmospheres  cabin atmospheres  cabin atmospheres  cabin atmospheres  cabin atmospheres  calin atmospheres  calin atmospheres  calin atmospheres  calin atmospheres  clean rooms  controll  instrument transmitters  instruments  optication regulator  mixin peaked convection  mixin peaked co  |   | cryostats                                  |   |
| RT actuators  control pneumatic control pneumati |   | current regulators                         |   |
| econtrol pneumatic control pneumatic control pneumatic control shability  DEF The capability of an aircraft, rocket, or their vehicle to respond to control, especially in direction or attitude. Used for handling qualities. UF phanting qualities aircraft control aircraft performance aircraft specifications aircraft spin aircraft specifications aircraft spin aircraft spin pneumatic explaints aircraft spin aircraft spin pneumatic explaints expla |   | cybernetics                                |   |
| pneumatic control  controlability  Controlability  DEF The capability of an aircraft, rocket, or other vehicle to respond to control, especially in direction or artitude. Used for handling qualities instrument grammatities instruments are quadratic regulator measuring instruments optical control aircraft control aircraft performance aircraft specifications aircraft specifications aircraft specifications aircraft specifications programmable logic devices propellant actuated instruments regulators remote control control stability  control mance were specifications are specifications aircraft specifications are specifications are regulators remote control theory directional stability  plic ratings  direction or afficiations programmable logic devices propellant actuated instruments regulators remote control theory directional stability  plic ratings  control theory  direction or afficiations programmable logic devices propellant actuated instruments speed control temperature control tem | RT actuators                                    | electronic control                         | Benard cells                                      |
| pneumatic control   H-infinity control   instrument receivers   instrument receivers   electron bunching   fluid flow   free convection    | ∞ control                                       |  | convection cells                                  |
| controllability  DEF The capability of an aircraft, rocket, or or which to respond to control, especially in direction or attitude. Used for handling qualities.  UF handling qualities optical control aircraft performance aircraft specifications aircraft specifications aircraft specifications aircraft specifications aircraft specifications aircraft stability regulators regulators regulators or control sability reduction attability speed regulators regulators regulators regulators regulators or control stability control fleory directional stability speed control speed control speed regulators regula  | pneumatic control                               |  | convection-diffusion equation                     |
| controllability  DEF The capability of an aircraft, rocket, or other vehicle to respond to control, especially in direction or attitude. Used for handling qualities  UF handling qualities  UF aircraft penformance aircraft specifications aircraft specifications ocontrol sability control theory directional stability speed regulators temperature control helicopter performance liquid stability pilor ratings uuality space-craft reliability space-craft reliability speed stability speed stabi  | F   |  |   |
| DEF The capability of an aircraft, rocket, or other valheide to respond to control, especially in direction or attitude. Used for handling qualities.  UF handling qualities aircraft performance aircraft specifications aircraft stability regulators programmable logic devices propallant actuated instruments regulators remote control control stability control theory speed control rocket-borne instruments speed control flight characteristics temperature control speed regulators themcostats helicopter performance liquid sloshing low speed stability and pilot ratings quality Corvair 400 aircraft politoratings wheel brakes USE CV-440 aircraft USE CV-440 aircraft computational fluid dynamics convection atmospheres and this properties of that fluid. Specifically, in meteorlogy, international mixing of the properties of that fluid. Specifically, in meteorlogy atmosphere in control on the mospheres claim transport and mixing of the properties of that fluid. Specifically, in meteorlogy atmosphere control on environments furnaces □ Control on furnace in the furnace instruments furnace instruments engliators furnation on furnation on furnation furnation furnation furnati  | controllability                                 |  |   |
| other vehicle to respond to control, especially in direction or attitude. Used for handling qualities.  UF handling qualities aircraft performance aircraft spelications aircraft spelications aircraft spin aircraft stability  □ control aircraft stability □ control theory directional stability □ control theory directional stability □ control theory directional stability □ control behicopter performance □ liquid sloshing □ low speed stability □ pilot ratings □ quality □ pilot ratings □ quality □ speed rationally □ speed stability □ pilot ratings □ quality □ speed rationally □ speed stability □ pilot ratings □ quality □ speed rationally □ speed stability □ pilot ratings □ quality □ speed rationally □ speed stability □ pilot ratings □ quality □ speed stability □ pilot ratings □ quality □ speed stability □ speed stability □ pilot ratings □ quality □ speed stability □ speed stability □ pilot ratings □ quality □ pilot ratings □ quality □ speed stability □ speed stability □ pilot ratings □ quality □ stability □ s  | · · · · · · · · · · · · · · · · · ·             |  |   |
| direction or attitude. Used for handling qualities.    IF   handling qualities   measuring instruments   measuring instrument  |   | ∞ instruments                              |   |
| UF handling qualities optical control pneumatic control aircraft performance aircraft specifications   |   | linear quadratic regulator                 |   |
| Tal craft control aircraft performance aircraft specifications aircraft stability  |   | measuring instruments                      |   |
| aircraft control aircraft performance aircraft specifications aircraft specifications aircraft specifications aircraft specifications aircraft spin aircraft stability control control stability control interior directional stability control directional stability control directional stability flight characteristics helicopter operformance liquid sloshing low speed stability low speed stability pilot ratings quality spacecraft reliability spacecraft reliability spacecraft reliability steering wheel brakes  Convari 880 aircraft  Convari 880 aircraft a argon-oxygen atmospheres . regon-oxygen atmospheres . linert atmospheres . spacecraft calin atmospheres . inert atmospheres . linert atmospheres . spacecraft reliability a atmospheres . linert atmospheres . clean rooms . control environments . Emand cells . Semand cells . Convection . Reyleigh-Benard convection . Rayleigh-Benard convection Rayleigh-Benard convection Rayleigh-Benard convection Benard cells   | 0 1   | optical control                            | ( ),  |
| aircraft performance aircraft specifications aircraft specifications aircraft specifications aircraft specifications aircraft specifications aircraft stability propellant actuated instruments regulators remote control control stability propellant actuated instruments regulators (added August 1991)  ∞ control theory speed control or cocket-borne instruments regulators (added August 1991)  DEF An equation for convection and diffusion, in which the rate of change with respect to time of the density (concentration) of the helicopter control theory voltage regulators voltage regulators (added August 1991)  DEF An equation for convection and diffusion, in which the rate of change with respect to time of the density (concentration) of the termostats voltage regulators (added August 1991)  DEF An equation for convection and diffusion, in which the rate of change with respect to time of the density (concentration) of the termostats voltage regulators (added August 1991)  DEF An equation for convection and diffusion convecting diffusing substance at a fixed point in space plus the product of the divergence of the velocity field and the density of the convecting diffusing substance equals the product of the diffusion coefficient and the differential of the diffusion coefficient and the differential of the diffusion coefficient and the diffusion  | RT aircraft control                             |  | solar granulation                                 |
| aircraft spin aircraft spin aircraft spin aircraft spin aircraft stability control control teory control theory directional stability helicopter control helicopter performance liquid sloshing low speed stability maneuverability pilot ratings quality spacecraft reliability spacecraft reliability speed regulators quality speed regulators liquid sloshing low speed stability maneuverability pilot ratings quality speecraft reliability speecraft reliability steering wheel brakes GS controlled atmospheres . cabin atmospheres . ragon-oxygen atmospheres . ragon-oxygen atmospheres . ineit atmospheres . ragon-oxygen atmospheres . rangon-oxygen atmo  | aircraft performance                            |  | stellar convection                                |
| aircraft spin aircraft stability   | aircraft specifications                         |  | vertical air currents                             |
| aircraft stability   | aircraft spin                                   |  |   |
| ocontrol control stability control stability control theory speed control control theory speed control control theory speed control stability speed control theory speed regulators s  |   |  | convection-diffusion equation                     |
| control stability control theory directional stability flight characteristics helicopter control helicopter performance low speed stability maneuverability pilot ratings quality spacecraft reliability spacecraft reliability spacecraft cabin atmospheres cabin atmospheres cabin atmospheres . argon-oxygen atmospheres . argon-oxygen atmospheres . blankets clean rooms control  environments clean rooms control control control control control control speed control speed control thermostats speed control thermostats speed control thermostats speed control thermostats speed regulators voltage regulators velocity field and the density of the convecting diffusion coefficient and the diffusion coefficient and the diffusion regulators velocity field and the density of the convection RT Benard cells convection RT Benard cells convection currents convection currents convection diffusion coefficient convective flow UF thermal currents GS fluid flow control reaction-diffusion equations reaction-diffusion equations reaction-diffusion equations reaction-diffusion equations reaction-diffusion equations reaction-diffu  |   |  |   |
| control theory speed control speed control speed control speed control speed regulators speed control speed regulators temperature control the flicopter control the flicopter performance liquid sloshing liquid sloshing low speed stability low sp  |   |  |   |
| directional stability flight characteristics helicopter control helicopter performance liquid sloshing low speed stability pilot ratings quality spacecraft reliability stability steering wheel brakes  Convoir 340 aircraft  Convair 340 aircraft  USE CV-340 aircraft  USE USE USE USE USE USE USE USE USE US  |   | rocket-borne instruments                   |   |
| flight characteristics helicopter control helicopter performance helicopter performance low speed stability maneuverability pilot ratings quality spacecraft reliability steering wheel brakes  Convair 340 aircraft  USE CV-440 aircraft  USE CV-440 aircraft  Convair 380 aircraft  USE CV-880 aircraft  USE CV-990 aircraft  USE CV-990 aircraft  USE CV-990 aircraft  USE CV-990 aircraft  Convection  Liffusion coefficient and fluid dynamics convection convection currents convection currents convection convection convection diffusion coefficient diffusion coefficient diffusion coefficient diffusion convection computational fluid dynamics convection diffusion coefficient convection flow theory Rayleigh-Benard convection convective flow UF thermal currents GS fluid flow convective flow  UF thermal currents GS fluid flow convective flow  Conve  | •   | speed control                              | ,   |
| helicopter control helicopter performance liquid sloshing low speed stability maneuverability pilot ratings quality spacecraft reliability steering wheel brakes  Convair 880 aircraft USE CV-340 aircraft USE CV-990 aircraft  Controlled atmospheres . cabin atmospheres . cabin atmospheres . cabin atmospheres . belium-oxygen atmospheres . helium-oxygen atmospheres .   |   | speed regulators                           |   |
| helicopter performance   voltage regulators   velocity field and the density of the convecting diffusing substance equals the product of the maneuverability   USE CV-340 aircraft   USE CV-340 aircraft   UF diffusion coefficient and the differential of the density of the convecting/diffusing substance equals the product of the density of the convection coefficient and the differential of the density of the convection diffusion coefficient and the differential of the density of the convection equation (HIGH product)   UF diffusion-convection equation   RT Benard cells   Convair 840 aircraft   USE CV-440 aircraft   Convair 880 aircraft   Convair 880 aircraft   Convair 880 aircraft   Convair 990 aircraft    |   | temperature control                        |   |
| helicopter performance   voltage regulators   velocity field and the density of the convecting diffusing substance equals the product of the diffusion coefficient and the differential of the density of the convecting/diffusing substance equals the product of the diffusion coefficient and the differential of the density of the convecting/diffusing substance.   UF diffusion-convection equation   RT Benard cells   |   | thermostats                                |   |
| liquid sloshing low speed stability maneuverability pilot ratings quality spacecraft reliability steering wheel brakes  Convair 940 aircraft  Convair 440 aircraft  USE CV-440 aircraft  USE CV-440 aircraft  Convair 880 aircraft  USE CV-880 aircraft  Controlled atmospheres  argon-oxygen atmospheres  argon-oxygen atmospheres  belium-oxygen atmospheres inert atmospheres  air conditioning  RT air conditioning  RT air conditioning  RT air conditioning  atmospheres  blankets  convection  Convair 990 aircraft  Convection  DEF In general, mass motion within a fluid resulting in transport and mixing of the properties of that fluid. Specifically, in meteorlogy, atmospheres blankets clean rooms  controlled  convection  DEF In general, mass motion within a fluid resulting in transport and mixing of the properties of that fluid. Specifically, in meteorlogy, atmosphere ties of that fluid Specifically, in meteorlogy, atmospheres clean rooms  control environments furnaces  diffusion coefficient and the defiltrential of the density of the convection start are predominately vertical.  GS convection  if transport and mixing of the properties of that fluid. Specifically, in meteorlogy, atmosphere  convection  if transport and mixing of the properties of that fluid specifically in meteorlogy, atmosphere  convection  if transport and mixing of the properties of that fluid specifically in meteorlogy, atmosphere  convection  if transport and mixing of the properties of that fluid specifically in meteorlogy, atmosphere  convective flow  convective flow  convective flow  in the density of the convection  convection  convection  reaction-diffusion coefficient  convection  reaction-diffusion equations  flow theory  Rayleigh-Benard convection  in the male currents  GS fluid flow  convective flow  in the male currents  CS fluid flow  convective flow  in the male currents  convection  in the male currents  c  | helicopter performance                          |  | velocity field and the density of the convecting/ |
| maneuverability pilot ratings quality spacecraft reliability steering wheel brakes  Controlled atmospheres cabin atmospheres convection diffusion diffusion diffusion diffusion diffusion diffusion diffusion convection flow equations flow theory RT agyleigh-Benard convection reaction-diffusion equations  convective flow  conv  | liquid sloshing                                 |  | diffusing substance equals the product of the     |
| maneuverability pilot ratings quality spacecraft reliability stability steering wheel brakes  Convair  GS Controlled atmospheres cabin atmospheres cabin atmospheres helium-oxygen atmospheres inert atmosphere inert atmosphere controlled atmospheres cabin atmospheres cabin atmospheres inert atmospheres convection diffusion convection convection equations flow equations flow equations flow theory Rayleigh-Benard convection reaction-diffusion equations  convective flow  convective   | low speed stability                             | Convair 340 aircraft                       | diffusion coefficient and the differential of the |
| pilot ratings quality  | maneuverability                                 |  | density of the convecting/diffusing substance.    |
| quality spacecraft reliability stability steering wheel brakes  Convair 880 aircraft  Controlled atmospheres GS controlled atmospheres . cabin atmospheres . cabin atmospheres . spacecraft cabin atmospheres . inert atmosphere . inert atmospheres . atmospheres . atmospheres . atmospheres . inert atmospheres . blankets . clean rooms . control . earnorments . convection  Flow equations  flow theory  Rayleigh-Benard convection  Feaction-diffusion equations  Convective flow  Usf thermal currents  GS fluid flow  Convective flow  Usf thermal currents  GS fluid flow  Convective flow  |   | OOL OV 040 an craft                        |   |
| spacecraft reliability steering wheel brakes USE CV-880 aircraft  Convair 880 aircraft  USE CV-880 aircraft  Convection convection currents convection convection currents convection convection currents convective flow diffusion  controlled atmospheres  Controlled atmospheres  Controlled atmospheres  ISE CV-990 aircraft  Convection  Ispacecraft cabin atmospheres  In general, mass motion within a fluid resulting in transport and mixing of the proper- inert atmosphere  In general, mass motion within a fluid resulting in transport and mixing of the proper- inert atmospheres  Extra ir conditioning  To atmospheres  Solankets Clean rooms  Convection  In general, mass motion within a fluid Rayleigh-Benard convection reaction-diffusion equations  Convective flow  UF thermal currents  GS fluid flow Convective flow  Convective flow  In general convection  Free convection  convec  |   | Conveix 440 eivereft                       |   |
| stability steering wheel brakes  Convair 880 aircraft  USE CV-880 aircraft  Convection  Convection cornection currents  convection cornection currents  convection cornection currents  convective flow diffusion coefficient  diffusion coefficient  convection  flow equations  flow equations  flow theory  Rayleigh-Benard convection  reaction-diffusion equations  ties of that fluid. Specifically, in meteorlogy,  atmospheres  convection  convective flow  UF thermal currents  GS fluid flow  convective flow  . Convective flow    |   |  |   |
| steering wheel brakes  USE CV-880 aircraft  convective flow diffusion  controlled atmospheres  GS controlled atmospheres   | , ,   | USE CV-440 aircraft                        | •   |
| wheel brakes  USE CV-880 aircraft  controlled atmospheres  GS controlled atmospheres  argon-oxygen atmospheres  cabin atmospheres  cabin atmospheres  belankers  air conditioning  atmospheres  blankets  clean rooms  controlled atmospheres  convection  DEF In general, mass motion within a fluid  resulting in transport and mixing of the proper- ties of that fluid. Specifically, in meteorlogy, air conditioning  atmospheres  blankets  clean rooms  convective flow  diffusion coefficient  coe quations  flow theory  Rayleigh-Benard convection  resulting in transport and mixing of the proper- ties of that fluid. Specifically, in meteorlogy, air conditioning  atmospheric motions that are predominately vertical.  clean rooms  convective flow  UF thermal currents  GS fluid flow  convective flow  UF thermal currents  GS fluid flow  convective flow  ∴ convective flow    |   |  |   |
| controlled atmospheres  GS controlled atmospheres  |   | Convair 880 aircraft                       | convection currents                               |
| Controlled atmospheres  Convair 990 aircraft  GS controlled atmospheres  | wheel brakes                                    | USE CV-880 aircraft                        | convective flow                                   |
| GS controlled atmospheres . argon-oxygen atmospheres . cabin atmospheres . spacecraft cabin atmospheres . helium-oxygen atmospheres . inert atmosphere  air conditioning  atmospheres  blankets clean rooms  convection  GS convection  Agyleigh-Benard convection  reaction-diffusion equations  flow equations flow theory  Rayleigh-Benard convection  reaction-diffusion equations  reaction-diffusion   |   |  | diffusion   |
| GS controlled atmospheres . argon-oxygen atmospheres . cabin atmospheres . spacecraft cabin atmospheres . helium-oxygen atmospheres . inert atmosphere  air conditioning  atmospheres  blankets clean rooms  convection  GS convection  Agyleigh-Benard convection  reaction-diffusion equations  flow equations flow theory  Rayleigh-Benard convection  reaction-diffusion equations  reaction-diffusion   | controlled atmospheres                          | Convair 990 aircraft                       |   |
| . argon-oxygen atmospheres . cabin atmospheres . cabin atmospheres . spacecraft cabin atmospheres . helium-oxygen atmospheres . inert atmosphere . inert atmosphere  air conditioning atmospheric motions that are predominately atmospheres  blankets clean rooms  convection  flow equations flow theory Rayleigh-Benard convection reaction-diffusion equations  |   |  |   |
| . cabin atmospheres       convection       flow theory         . spacecraft cabin atmospheres       DEF In general, mass motion within a fluid resulting in transport and mixing of the proper-iner ties of that fluid. Specifically, in meteorlogy, air conditioning atmospheric motions that are predominately vertical.       convective flow         RT air conditioning atmospheres       vertical.       UF thermal currents         ∞ blankets clean rooms       GS convection       GS fluid flow         clean rooms       forced convection       . convective flow         ∞ control environments furnaces       . Rayleigh-Benard convection       . Rayleigh-Benard convection         . Rayleigh-Benard convection       . Rayleigh-Benard convection         . Benard cells       . buoyancy-driven flow  |   | OOL OV 330 an craft                        | •   |
| spacecraft cabin atmospheres . helium-oxygen atmospheres . inert atmosphere . orottions that are predominately . orotective flow . UF thermal currents . GS fluid flow . convective flo        |   | convection                                 |   |
| . helium-oxygen atmospheres       resulting in transport and mixing of the properties of that fluid. Specifically, in meteorlogy, air conditioning       reaction-diffusion equations         RT air conditioning       atmospheric motions that are predominately vertical.       UF thermal currents         ∞ blankets       GS convection       GS fluid flow         clean rooms       . forced convection       . convective flow         ∞ control environments       . free convection       . Rayleigh-Benard convection         furnaces       . Benard cells       . buoyancy-driven flow   |   |  |   |
| . inert atmosphere     ties of that fluid. Specifically, in meteorlogy, atmospheric motions that are predominately vertical.     convective flow       ∞ atmospheres     vertical.     UF thermal currents       ∞ blankets     GS convection     GS fluid flow       clean rooms     forced convection     convective flow       ∞ control     free convection     . Rayleigh-Benard convection       environments     . Rayleigh-Benard convection     . Benard cells       furnaces     . Benard cells     . buoyancy-driven flow   |   |  |   |
| RT air conditioning atmospheric motions that are predominately vertical.  ∞ blankets GS convection clean rooms  ∞ control environments furnaces  atmospheric motions that are predominately vertical.  GS convection Convection  GS fluid flow convective flow UF thermal currents GS fluid flow convective flow UF thermal currents GS fluid flow convective flow  ∴ Rayleigh-Benard convection ∴ Rayleigh-Benard convection ∴ Benard cells ∴ buoyancy-driven flow  |   |  | reaction-diffusion equations                      |
| ∞ atmospheres     vertical.     UF thermal currents       ∞ blankets     GS convection     GS fluid flow       clean rooms     . forced convection     . convective flow       ∞ control     . free convection     . Rayleigh-Benard convection       environments     . Rayleigh-Benard convection     . Benard cells       furnaces     . Benard cells     . buoyancy-driven flow  |   |  |   |
| ∞ atmospheres     vertical.     UF thermal currents       ∞ blankets     GS convection     GS fluid flow       clean rooms     . forced convection     . convective flow       ∞ control     . free convection     . Rayleigh-Benard convection       environments     . Rayleigh-Benard convection     . Benard cells       furnaces     . Benard cells     . buoyancy-driven flow  | RT air conditioning                             | atmospheric motions that are predominately | convective flow                                   |
| ∞ blankets     GS     convection     GS     fluid flow       clean rooms     . forced convection     . convective flow       ∞ control     . free convection     . Rayleigh-Benard convection       environments     . Rayleigh-Benard convection     Benard cells       furnaces     Benard cells     buoyancy-driven flow  |   |  |   |
| clean rooms       . forced convection       . convective flow         ∞ control       . free convection       . Rayleigh-Benard convection         environments       . Rayleigh-Benard convection       Benard cells         furnaces       Benard cells       buoyancy-driven flow   |   |  |   |
| <ul> <li>∞ control</li> <li>environments</li> <li>furnaces</li> <li>furnaces</li> <li>free convection</li> <li>Rayleigh-Benard convection</li> <li>Benard cells</li> <li>buoyancy-driven flow</li> </ul>   |   |  |   |
| environments Rayleigh-Benard convection Benard cells furnaces Benard cells buoyancy-driven flow  |   |  |   |
| furnaces Benard cells buoyancy-driven flow   |   |  |   |
| , ,  |   |  |   |
| gas mixtures . stellar convection RT convection cells  |   |  |   |
|  | gas mixtures                                    | . stellar convection                       | RT convection cells                               |

|         | convection-diffusion equation             | RT       | voice communication   |         | turbojet engines                    |
|---------|---|----------|---|---------|-------------------------------------|
|         | free convection                           |          | words (language)  |         | turbofan engines                    |
|         | gas density                               |          | ( 0 0 )   |         | convertible fan-shaft               |
|         | geophysical fluid flow cells              | ∞ conver | sion  |         | engines                             |
|         | heat transmission                         | SN       | (USE OF A MORE SPECIFIC TERM IS                             |         | . turbine engines                   |
|         |   | 011      | RECOMMENDEDCONSULT THE TERMS                                |         |                                     |
|         | Marangoni convection                      |          | LISTED BELOW)   |         | gas turbine engines                 |
|         | mass flow rate                            | RT       | bioconversion   |         | jet engines                         |
|         | mass transfer                             |          | conversion tables   |         | turbojet engines                    |
|         | porous boundary layer control             |          | data conversion routines                                    |         | turbofan engines                    |
|         | solar convection (astronomy)              |          | electric generators   |         | convertible fan-shaft               |
|         | stellar convection                        |          | energy conversion   |         | engines                             |
|         | surface tension driven convection         |          |   | RT      | helicopter engines                  |
|         | temperature                               |          | energy conversion efficiency                                |         | jet thrust                          |
|         | thermal diffusion                         |          | exchanging  |         | propulsion system configurations    |
|         | thermal dilusion                          |          | frequency converters  |         |                                     |
|         | d . I                                     |          | geothermal energy conversion                                |         | rotary wings                        |
|         | tive heat transfer                        |          | internal conversion   |         | TF-34 engine                        |
| GS      | transmission                              |          | isomerization   |         | turboshafts                         |
|         | . heat transmission                       |          | liquefaction  |         | V/STOL aircraft                     |
|         | heat transfer                             |          | metrication   |         | variable cycle engines              |
|         | convective heat transfer                  |          |   |         | vertical takeoff aircraft           |
| RT      | aerodynamic heating                       |          | ocean thermal energy conversion                             |         | Tortioar tartoon an oran            |
| 111     | boundary layer combustion                 |          | organic wastes (fuel conversion)                            | convex  | rita                                |
|         |   |          | ortho para conversion                                       |         | -                                   |
|         | boundary layer flow                       |          | photothermal conversion                                     | GS      | shapes                              |
|         | Brinkman number                           |          | photovoltaic conversion                                     |         | convexity                           |
|         | conductive heat transfer                  |          | refining  | RT      | concavity                           |
|         | convection cells                          |          | satellite solar energy conversion                           |         | contour sensors                     |
|         | cooling fins                              |          |   |         | contours                            |
|         | forced convection                         |          | solar energy conversion                                     |         | flatness                            |
|         | free convection                           |          | solar total energy systems                                  |         |                                     |
|         |   |          | thermionic power generation                                 |         | lenticular bodies                   |
|         | laminar heat transfer                     |          | thermoelectric power generation                             | c       | ∞ surface geometry                  |
|         | mass transfer                             |          | turbogenerators   |         |                                     |
|         | Nusselt number                            |          |   | convey  | rors                                |
|         | radiative heat transfer                   |          | waterwave energy conversion                                 | RT      | automated guideway transit vehicles |
|         | Rayleigh-Benard convection                |          |   |         | automated transit vehicles          |
|         |   | conver   | sion tables   |         |                                     |
|         | surface cooling                           | GS       | tables (data)   |         | chutes                              |
|         | temperature gradients                     |          | conversion tables   |         | cranes                              |
|         | thermohydraulics                          | RT o     | o conversion  |         | elevators (lifts)                   |
|         | thermosiphons                             | 101 -    |   |         | feeders                             |
|         | turbulent heat transfer                   |          | data converters   |         | forks                               |
|         | tarbalont noat transition                 |          | International System of Units                               |         | ∞ lifts                             |
|         | 4iana                                     |          | units of measurement  |         |                                     |
| conven  |   |          |   |         | materials handling                  |
| RT      | agreements                                | convert  | aplanes   |         | ribbons                             |
|         | air law                                   | USE      | V/STOL aircraft   |         | rollers                             |
|         | compatibility                             | OOL      | V/OTOL all'oralit   |         | scoops                              |
|         | conferences                               |          | 4   | c       | ∞ tracks                            |
| ~       | o cooperation                             | ∞ conver |   |         |                                     |
|         |   | SN       | (USE OF A MORE SPECIFIC TERM IS                             |         | transportation                      |
|         | international cooperation                 |          | RECOMMENDEDCONSULT THE TERMS                                |         |                                     |
|         | international law                         |          | LISTED BELOW)   |         | ution integrals                     |
|         | outer space treaty                        |          | Rotary devices for changing alternat-                       | UF      | convolutions (mathematics)          |
|         | standards                                 | ing curr | ent to direct current. Transducers whose                    | GS      | analysis (mathematics)              |
|         |   | output i | s a different frequency from its input.                     |         | . functional analysis               |
| converg | nence                                     | RT       | analog to digital converters                                |         | convolution integrals               |
|         | -   |          | binary to decimal converters                                |         |                                     |
|         | Approach to a limit, e.g., by an infinite |          | current converters (AC to DC)                               |         | integrals                           |
|         | ce. Used for confluence.                  |          |   |         | convolution integrals               |
| UF      | confluence                                |          | data converters   | RT      | integral transformations            |
| RT      | divergence                                |          | digital to analog converters                                |         | trellis coding                      |
|         | patch tests                               |          | direct power generators                                     |         | -                                   |
|         | regularity                                |          | down-converters   | convolu | itions (mathematics)                |
|         | tapering                                  |          | electric generators   |         | convolution integrals               |
|         |   |          | frequency converters  | OOL     | convolution integrals               |
|         | variability                               |          |   |         | -1                                  |
|         |   |          | image converters  | convul  |                                     |
|         | gent nozzles                              |          | instrument transformers                                     | RI      | human pathology                     |
| RT      | conical nozzles                           |          | inverted converters (DC to AC)                              |         | muscles                             |
|         | fluid amplifiers                          |          | parametric frequency converters                             |         | psychotherapy                       |
|         | nozzle geometry                           |          | power converters  |         | seizures                            |
|         | nozzle walls                              |          | pulse width amplitude converters                            | -       | ∞ shock                             |
|         | o nozzles                                 |          | pyrometallurgy  |         |                                     |
| 0       |   |          | solar blankets  | Con V   | observatory                         |
|         | turbine engines                           |          |   |         |                                     |
|         | turbojet engines                          |          | thermionic converters                                       | ,       | led February 2006)                  |
|         |   |          | torque converters   | USE     | Constellation-X                     |
| converg | gent-divergent nozzles                    |          | transducers   |         |                                     |
| UF      | de Laval nozzles                          |          | transformers  | Cook II | nlet (AK)                           |
| GS      | exhaust nozzles                           |          | up-converters   |         | landforms                           |
| -       | . convergent-divergent nozzles            |          | voltage converters (AC to AC)                               |         | . inlets (topography)               |
| БТ      |   |          |   |         |                                     |
| RT      | conical nozzles                           |          | voltage converters (DC to DC)                               | 5.7     | Cook Inlet (AK)                     |
|         | nozzle geometry                           |          |   | RT      | Alaska                              |
|         | nozzle inserts                            |          | tible fan-shaft engines                                     |         |                                     |
| 0       | ∘ nozzles                                 | GS       | engines   | Cookpo  | ot aircraft                         |
|         | rocket nozzles                            |          | . air breathing engines                                     | USĖ     | TU-124 aircraft                     |
|         | supersonic nozzles                        |          | gas turbine engines   | 302     |                                     |
|         |   |          |   | and of  | are                                 |
|         | transonic nozzles                         |          | jet engines   | cool st |                                     |
|         | turbine exhaust nozzles                   |          | turbojet engines  | GS      | celestial bodies                    |
|         | wind tunnel nozzles                       |          | turbofan engines  |         | . stars                             |
|         |   |          | convertible fan-shaft                                       |         | late stars                          |
| convers | sation                                    |          | engines   |         | cool stars                          |
| GS      | communicating                             |          | . aircraft engines  |         | carbon stars                        |
| GS      |   |          | . and an endines  |         | vaibuii stais                       |
|         |   |          |   |         | flore etc                           |
|         | . verbal communication                    |          | convertible fan-shaft engines                               |         | flare stars                         |
|         | . verbal communication conversation       |          |   |         | K stars                             |
|         | . verbal communication                    |          | convertible fan-shaft engines                               |         |                                     |
|         | . verbal communication conversation       |          | convertible fan-shaft engines . internal combustion engines |         | K stars                             |

|               | Mira variables  |         | film condensation  |   | As assessment of the state of t |
|---------------|---|---------|--|---|--|
|               | Mira variables  |         | film condensation  |   | temperature distribution   |
|               | Omicron Ceti star   |         | freezing   |   | thermoacoustic refrigerators   |
|               | S stars   |         | freon  |   | transpiration  |
| RT            | brown dwarf stars   |         | geothermal energy utilization  |   | ventilation  |
|               | giant stars   |         | heat exchangers  |   | ventilation fans   |
|               | R Coronae Borealis stars  |         | heat radiators   |   | vents  |
|               | stellar atmospheres   |         | heat shielding   |   | 70.110   |
|               |   |         | 9  | ∞ cooper                                | ation  |
|               | stellar envelopes   |         | heat transfer  | SN                                      | (USE OF A MORE SPECIFIC TERM IS  |
|               | stellar spectra   |         | heating  | SIN                                     | RECOMMENDEDCONSULT THE TERMS   |
|               | stellar temperature   |         | Hilsch tubes   |   | LISTED BELOW)  |
|               |   |         | jackets  | RT                                      | conventions  |
| coolant       | oss   |         | low temperature  |   | employee relations   |
| USE           | loss of coolant   |         | melting  |   | international cooperation  |
|               |   |         | mushy zones  |   | •  |
| coolant       | 5   |         | refrigerating  |   | public relations   |
| DEF           | Liquids of gases used to cool some-   |         |  |   | sea law  |
|               | a rocket combustion chamber.  |         | reusable heat shielding  |   |  |
| GS GS         | coolants  |         | spacecraft radiators   |   | -Harper ratings  |
| 63            |   |         | temperature control  | (adde                                   | ed August 1999)  |
|               | . engine coolants   |         | temperature distribution   | GS                                      | flight characteristics   |
|               | . organic coolants  |         | thermal cycling tests  |   | . pilot ratings  |
| RT            | air conditioning  |         | thermal shock  |   | Cooper-Harper ratings  |
|               | air cooling   |         | thermal stresses   |   | ratings  |
|               | brines  |         | transpiration  |   | . pilot ratings  |
|               | coolers   |         | ventilation  |   |  |
|               | cooling   |         | ventilation fans   | DT                                      | . Cooper-Harper ratings  |
|               | cooling systems   |         |  | KI                                      | aircraft performance   |
|               | freon   |         | venting  |   | helicopter performance   |
|               |   |         | wetting  |   |  |
|               | gas cooling   |         | •  |   | ate geometry language  |
|               | heat exchangers   | cooling |  | USE                                     | COGO (programming language)  |
|               | liquid cooling  | GS      | fins   |   |  |
|               | loss of coolant   |         | . cooling fins   | coordina                                | ate systems  |
|               | nuclear reactors  | RT      | condensers (liquefiers)  |   | coordinates  |
|               | reactor materials   |         | convective heat transfer   | 002                                     |  |
|               | refrigerants  |         | finned bodies  | coordin                                 | ate transformations  |
|               | sodium cooling  |         |  |   | functions (mathematics)  |
|               | 30didili cooling  |         | heat exchangers  | 00                                      | . coordinate transformations   |
| acalara       |   |         | heat radiators   |   |  |
| coolers       |   |         | radiative heat transfer  |   | transformations (mathematics)  |
| RT            | air conditioning  |         |  |   | coordinate transformations   |
|               | air conditioning equipment  | cooling | flows (astrophysics)   | RT                                      | conformal mapping  |
|               | air cooling   | GS      | fluid flow   |   | invariant imbeddings   |
|               | compressors   |         | . gas flow   |   | isoparametric finite elements  |
|               | coolants  |         | cooling flows (astrophysics)   |   | isotropic turbulence   |
|               | cooling   | RT      | accretion disks  |   | Joukowski transformation   |
|               | cooling systems   |         | cooling  |   | Schwarzschild metric   |
|               | cryogenic cooling   |         | cosmic gases   |   | Theodorsen transformation  |
|               |   |         |  |   | Theodorsen transformation  |
|               |   |         |  |   |  |
|               | refrigerating   |         | dark matter  | ooordin                                 | otoo   |
|               | refrigerating machinery   |         | galactic clusters  | coordin                                 |  |
|               |   |         | galactic clusters<br>galactic evolution  | DEF                                     | Sets of measures defining points in  |
|               | refrigerating machinery   |         | galactic clusters<br>galactic evolution<br>intergalactic media   | DEF<br>space. l                         | Sets of measures defining points in<br>Jsed for axes (coordinates) and coordi-   |
| cooling       | refrigerating machinery   |         | galactic clusters<br>galactic evolution  | DEF<br>space. I<br>nate sys             | Sets of measures defining points in<br>Used for axes (coordinates) and coordi-<br>stems.   |
| cooling<br>UF | refrigerating machinery   |         | galactic clusters<br>galactic evolution<br>intergalactic media   | DEF<br>space. l                         | Sets of measures defining points in<br>Used for axes (coordinates) and coordi-<br>stems.   |
|               | refrigerating machinery refrigerators   |         | galactic clusters<br>galactic evolution<br>intergalactic media<br>interstellar gas<br>star formation   | DEF<br>space. I<br>nate sys             | Sets of measures defining points in<br>Jsed for axes (coordinates) and coordi-<br>stems.   |
|               | refrigerating machinery<br>refrigerators<br>chilling<br>heat dissipation  |         | galactic clusters<br>galactic evolution<br>intergalactic media<br>interstellar gas   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in<br>Jsed for axes (coordinates) and coordi-<br>stems.<br>axes (coordinates)<br>coordinate systems   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling  | cooling | galactic clusters<br>galactic evolution<br>intergalactic media<br>interstellar gas<br>star formation<br>x ray sources  | DEF<br>space. I<br>nate sys             | Sets of measures defining points in<br>Jsed for axes (coordinates) and coordi-<br>stems.<br>axes (coordinates)<br>coordinate systems<br>coordinates  |
|               | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources systems   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in<br>Jsed for axes (coordinates) and coordi-<br>stems.<br>axes (coordinates)<br>coordinate systems<br>coordinates<br>. astronomical coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment)  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coorditems.  axes (coordinates) coordinate systems  coordinates  . astronomical coordinates  . Cartesian coordinates   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordistems. axes (coordinates) coordinate systems coordinates  . astronomical coordinates  . Cartesian coordinates  . computational grids   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordinates. axes (coordinates) coordinate systems coordinates  . astronomical coordinates  . Cartesian coordinates  . computational grids  . structured grids (mathematics)   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . film cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordinates. axes (coordinates) coordinate systems coordinates  astronomical coordinates  . Cartesian coordinates  . computational grids  . structured grids (mathematics)  multiblock grids   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinate systems  coordinates  astronomical coordinates  Cartesian coordinates  computational grids  structured grids (mathematics)  multiblock grids  unstructured grids (mathematics)   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling film cooling sim cooling sweat cooling gas cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordistems.  axes (coordinates) coordinate systems coordinates . astronomical coordinates . Cartesian coordinates . computational grids structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . gas cooling . laser cooling . laser cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids structured grids (mathematics) multiblock grids unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling film cooling sim cooling sweat cooling gas cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordistems.  axes (coordinates) coordinate systems coordinates . astronomical coordinates . Cartesian coordinates . computational grids structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . gas cooling . laser cooling . laser cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids structured grids (mathematics) multiblock grids unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling sevaporative cooling sweat cooling sweat cooling laser cooling laser cooling liquid cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns. axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . geodetic coordinates . Hylleraas coordinates   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . gas cooling . laser cooling . liquid cooling . film cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers)   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordinates. axes (coordinates) coordinates ystems coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling . film cooling . sweat cooling . sweat cooling laser cooling . liquid cooling . film cooling . film cooling . pase cooling . liquid cooling . film cooling . pase cooling . pase cooling . pase cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) cylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . gas cooling . laser cooling . liquid cooling . film cooling . magnetic cooling . plasma cooling . plasma cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification   | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . vylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . dolique coordinates   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling sevaporative cooling suseat cooling gas cooling laser cooling liquid cooling film cooling film cooling liquid cooling nagnetic cooling plasma cooling plasma cooling precooling precooling quenching (cooling)  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolers dehumidification engine coolants  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns. axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . bilique coordinates . planetocentric coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling . film cooling . sweat cooling gas cooling laser cooling laser cooling . film cooling . film cooling . are cooling . laquid cooling . film cooling . film cooling . film cooling . film cooling . rapid cooling . pasma cooling . precooling . precooling . quenching (cooling) . rapid quenching (metallurgy)  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Used for axes (coordinates) and coordistems. axes (coordinates) coordinates ystems coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) cylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . bique coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . gas cooling laser cooling . laquid cooling . film cooling . rim cooling . rapid quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . lagrange coordinates . blique coordinates . planetocentric coordinates . geocentric coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling     absorption cooling     air cooling     evaporative cooling     . sweat cooling     . sweat cooling     . sweat cooling     . liquid cooling     . film cooling     . film cooling     . pass cooling     . liquid cooling     . film cooling     . plasma cooling     plasma cooling     . precooling     . precooling     . rapid quenching (metallurgy)     . cryogenic cooling     . radiant cooling     radiant cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterms.  axes (coordinates) coordinates coordinates coordinates coordinates coordinates cordinates computational grids coordinates computational grids coordinates coordinates definitional coordinates definitional coordinates definitional coordinates hyperbolic coordinates hyperbolic coordinates  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling evaporative cooling sevaporative cooling liquid cooling sevaporative cooling plasma cooling plasma cooling precooling sevaporative cooling radiant cooling radiant cooling regenerative cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems  | DEF<br>space. I<br>nate sys<br>UF       | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns. axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . inertial coordinates . parange coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates . geocentric coordinates . polar coordinates . spherical coordinates algebra  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . asser cooling . laser cooling . laser cooling . liquid cooling . film cooling . film cooling . raparatic cooling . plasma cooling . precooling . precooling . precooling . rapid quenching (metallurgy) . cryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . sodium cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . cylindrical coordinates geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . spherical coordinates . spherical coordinates algebra analytic geometry   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . asser cooling . laser cooling . laser cooling . liquid cooling . film cooling . regenerative cooling . rapid quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . regenerative cooling . sodium cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns. axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . inertial coordinates . parange coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates . geocentric coordinates . polar coordinates . spherical coordinates algebra  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . asser cooling . laser cooling . laser cooling . liquid cooling . film cooling . film cooling . raparatic cooling . plasma cooling . precooling . precooling . precooling . rapid quenching (metallurgy) . cryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . sodium cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . cylindrical coordinates geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . spherical coordinates . spherical coordinates algebra analytic geometry   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . asser cooling . laser cooling . laser cooling . liquid cooling . film cooling . regenerative cooling . rapid quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . regenerative cooling . sodium cooling  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . cylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . blique coordinates . planetocentric coordinates . planetocentric coordinates . planetocontric coordinates . polar coordinates . spherical coordinates algebra analytic geometry axes (reference lines)  |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . cooling . film cooling . sweat cooling . sweat cooling . liquid cooling . film cooling . film cooling . respective cooling . respective cooling . respective cooling . respective cooling . regeling . precooling . repecting . repercooling . regeling (cooling) . rapid quenching (metallurgy) . cryogenic cooling . regenerative cooling . sodium cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps   | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates coordinates coordinates coordinates coordinates coordinates computational grids computational grids computational grids computational grids computational grids computational grids coordinates computational grids coordinates condinates coordinates definitional coordinates definitional coordinates hyperbolic coordinates hyperbolic coordinates coordi |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laser cooling . film cooling . film cooling . film cooling . rapin cooling . rapin cooling . plasma cooling . plasma cooling . precooling . rapid quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . solid cryogen cooling . space cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat radiators heat sinks  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . inertial coordinates . lagrange coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates . geocentric coordinates . geocentric coordinates . polar coordinates . spherical coordinates algebra analytic geometry axes (reference lines) celestial reference systems Earth axis equators   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laquid cooling . film cooling . magnetic cooling . plasma cooling . pasma cooling . rapid quenching (metallurgy) . rapid quenching (metallurgy) . rryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . solid cryogen cooling . space cooling . space cooling . space cooling . space cooling . supercooling . surface cooling . surface cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . egodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . hyperbolic coordinates . inertial coordinates . Lagrange coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . spherical coordinates . spherical coordinates algebra analytic geometry axes (reference lines) celestial reference systems Earth axis equators Euclidean geometry   |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling laser cooling laser cooling liquid cooling . film cooling . rim cooling . rim cooling . rim cooling . magnetic cooling . plasma cooling . precooling . quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . regenerative cooling . sodium cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . supercooling . surface cooling . surface cooling . surface cooling . surface cooling . thermoelectric cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems   | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . hyleraas coordinates . hyperbolic coordinates . hyperbolic coordinates . Lagrange coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . spherical coordinates . polar coordinates . polar coordinates . polar coordinates . spherical coordinates algebra analytic geometry axes (reference lines) celestial reference systems Earth axis equators Euclidean geometry fractals   |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . film cooling . sweat cooling . sweat cooling . liquid cooling . film cooling . film cooling . right cooling . right cooling . sweat cooling . liquid cooling . film cooling . right cooling . raparetic cooling . plasma cooling . precooling . rapid quenching (cooling) . rapid quenching (metallurgy) . rryogenic cooling . regenerative cooling . sodium cooling . sodium cooling . solid cryogen cooling . space cooling . space cooling . surface cooling . thermoelectric cooling . thermoelectric cooling   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates coordinates coordinates coordinates coordinates cordinates computational grids coordinates coordinates coordinates definition of the properties |
| UF            | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laser cooling . film cooling . rapama cooling . plasma cooling . plasma cooling . precooling . quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . radiant cooling . regenerative cooling . solid cryogen cooling . solid cryogen cooling . space cooling . supercooling . supercooling . surface cooling . surface cooling . thermoelectric cooling . thermoelectric cooling . thermomagnetic cooling ablation   |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems  | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids structured grids (mathematics) multiblock grids unstructured grids (mathematics) . vylindrical coordinates . geodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . hyperbolic coordinates . inertial coordinates . lagrange coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates . planetocentric coordinates . spherical coordinates . spherical coordinates . spherical coordinates . stylerical coordinates . stylerical coordinates . stylerical coordinates . spherical coordinates . stylerical coordinates . style             |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laudic cooling . film cooling . film cooling . rapid cooling . rapid quenching (cooling) . rapid quenching (metallurgy) . ryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . space cooling . supercooling . supercooling . surface cooling . thermoelectric cooling . thermoelectric cooling . thermoengeneratics . the model of the cooling . thermoengeneratics . the model of the cooling . thermoengeneratics . the cooling . thermoengeneratic cooling . thermoengeneratics . the cooling . thermoengeneratics . the cooling . |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerants   | DEF<br>space. I<br>nate sys<br>UF<br>GS | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . egeodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . lagrange coordinates . lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . spherical coordinates . polar coordinates . polar coordinates algebra analytic geometry axes (reference lines) celestial reference systems Earth axis equators Euclidean geometry fractals Fujita method geomagnetic latitude geometry  |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laser cooling . liquid cooling . film cooling . magnetic cooling . plasma cooling . rapid quenching (metallurgy) . rapid quenching (metallurgy) . rryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . space cooling . supercooling . surface cooling . surface cooling . thermoelectric cooling . thermoelectric cooling ablation ablative materials air conditioning  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerants refrigerating   | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . hylleraas coordinates . hyperbolic coordinates . hyperbolic coordinates . lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . polar coordinates . polar coordinates . polar coordinates . pelaretic coordinates . polar coordinates . pelestial reference systems Earth axis equators Euclidean geometry fractals Fujita method geomagnetic latitude geometry grid generation (mathematics)  |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laudic cooling . film cooling . film cooling . rapid cooling . rapid quenching (cooling) . rapid quenching (metallurgy) . ryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . space cooling . supercooling . supercooling . surface cooling . thermoelectric cooling . thermoelectric cooling . thermoengeneratics . the model of the cooling . thermoengeneratics . the model of the cooling . thermoengeneratics . the cooling . thermoengeneratic cooling . thermoengeneratics . the cooling . thermoengeneratics . the cooling . |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerants   | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . egeodetic coordinates . Hylleraas coordinates . hyperbolic coordinates . lagrange coordinates . lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . spherical coordinates . polar coordinates . polar coordinates algebra analytic geometry axes (reference lines) celestial reference systems Earth axis equators Euclidean geometry fractals Fujita method geomagnetic latitude geometry  |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling . air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . laser cooling . liquid cooling . film cooling . magnetic cooling . plasma cooling . rapid quenching (metallurgy) . rapid quenching (metallurgy) . rryogenic cooling . radiant cooling . regenerative cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . space cooling . supercooling . surface cooling . surface cooling . thermoelectric cooling . thermoelectric cooling ablation ablative materials air conditioning  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerants refrigerating   | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) multiblock grids . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . hylleraas coordinates . hyperbolic coordinates . hyperbolic coordinates . lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . polar coordinates . polar coordinates . polar coordinates . pelaretic coordinates . polar coordinates . pelestial reference systems Earth axis equators Euclidean geometry fractals Fujita method geomagnetic latitude geometry grid generation (mathematics)  |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . film cooling . film cooling . sweat cooling . sweat cooling . liquid cooling . film cooling . film cooling . film cooling . rapastic cooling . plasma cooling . plasma cooling . rapid quenching (cooling) . rapid quenching (metallurgy) . rapid quenching (metallurgy) . rapid quenching . sodium cooling . sodium cooling . sodium cooling . sodium cooling . solid cryogen cooling . space cooling . surface cooling . surface cooling . thermoelectric cooling . thermoelectric cooling ablation ablative materials air conditioning bathing condensing  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning equipment air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerating refrigerating refrigerating machinery registers (air circulation)   | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates)  coordinates  . astronomical coordinates  . cartesian coordinates  . cartesian coordinates  . computational grids  structured grids (mathematics)  multiblock grids  unstructured grids (mathematics)  . vylindrical coordinates  . geodetic coordinates  . hyperbolic coordinates  . hyperbolic coordinates  . hyperbolic coordinates  . lagrange coordinates  . planetocentric coordinates  . geocentric coordinates  . geocentric coordinates  . planetocentric coordinates  . spherical coordinates  . godentric coordi             |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling . absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . liquid cooling . film cooling . film cooling . film cooling . rapama cooling . rapid quenching (metallurgy) . rryogenic cooling . radiant cooling . radiant cooling . sodium cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . supercooling . supercooling . supercooling . thermoelectric cooling . thermoelectric cooling ablation ablative materials air conditioning bathing condensing contraction  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporators evaporators evaporators heat pumps heat exchangers heat pumps heat adiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerating refrigerating refrigerating refrigerating machinery registers (air circulation) solar cooling  | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordisterns.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . hyperbolic coordinates . hyperbolic coordinates . inertial coordinates . lagrange coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates . geocentric coordinates . georentric coordinates  |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . laser cooling . laser cooling . liquid cooling . film cooling . magnetic cooling . plasma cooling . precooling . rapid quenching (metallurgy) . rapid quenching (metallurgy) . rayogenic cooling . radiant cooling . regenerative cooling . solid cryogen cooling . solid cryogen cooling . supercooling . supercooling . surface cooling . surface cooling . thermoelectric cooling . thermoelectric cooling ablation ablative materials air conditioning bathling condensing contraction coolants  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerants refrigerating machinery registers (air circulation) solar cooling solid cryogens  | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . unstructured grids (mathematics) . cylindrical coordinates . geodetic coordinates . hyleraas coordinates . hyperbolic coordinates . hyperbolic coordinates . lagrange coordinates . planetocentric coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . pelar coordinates . pelar tic coordinates . polar coordinates . pelar coordinates . pelar coordinates . polar coordinates . pelar coordinates . polar coordinates .  |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . asser cooling . laser cooling . laser cooling . liquid cooling . film cooling . rilm cooling . magnetic cooling . plasma cooling . precooling . quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . regenerative cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . supercooling . supercooling . surface cooling . thermoelectric cooling . thermoelectric cooling . thermoagnetic cooling ablation ablative materials air conditioning bathing condensing contraction coolants coolers  |         | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning adir conditioning equipment air conditioning equipment air colling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat exchangers heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerating refrigerating machinery registers (air circulation) solar cooling solid cryogens space cooling (buildings)         | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . hyperbolic coordinates . hyperbolic coordinates . hyperbolic coordinates . Lagrange coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . spherical coordinates . polar coordinates . polar coordinates . polar coordinates . peccentric coordinates . polar coordinates . peccentric coordinates . peccentric coordinates . polar coordinates . polar coordinates . peccentric coordinates . polar coordinates . polar coordinates . peccentric coordinates . polar coordinates . geometry  axes (reference lines) celestial reference systems . Earth axis . equators . Euclidean geometry fractals . Fujita method . geomagnetic latitude . geometry . grids . prids . |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . laquid cooling . liquid cooling . film cooling . film cooling . film cooling . rapastic cooling . plasma cooling . plasma cooling . rapid quenching (metallurgy) . rapid quenching (metallurgy) . rayogenic cooling . radiant cooling . regenerative cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . surface cooling . surface cooling . thermoelectric cooling . thermoelectric cooling ablation ablative materials air conditioning bathing condensing contraction coolants coolers cooling flows (astrophysics)  | RT      | galactic clusters galactic evolution intergalactic media intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning equipment air cooling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerating refrigerating refrigerating refrigerating refrigerating machinery registers (air circulation) solar cooling space cooling (buildings) space craft radiators | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordisters.  axes (coordinates) coordinates coordinates . astronomical coordinates . Cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . hyperbolic coordinates . hyperbolic coordinates . hyperbolic coordinates . Lagrange coordinates . planetocentric coordinates . geocentric coordinates . geocentric coordinates . spherical coordinates . spherical coordinates . spherical coordinates . spherical coordinates . specentric coordinates . specentric coordinates . special coordinates . spirical coordinates . spherical coordinates . special coordinates . spirical coordinates . special reference systems Earth axis equators Euclidean geometry fractals Fujita method geomagnetic latitude geometry grid generation (mathematics) . grids half planes half spaces latitude line of sight longitude   |
| UF GS         | refrigerating machinery refrigerators  chilling heat dissipation heat dissipation chilling cooling absorption cooling air cooling . evaporative cooling . film cooling . sweat cooling . asser cooling . laser cooling . laser cooling . liquid cooling . film cooling . rilm cooling . magnetic cooling . plasma cooling . precooling . quenching (cooling) . rapid quenching (metallurgy) . cryogenic cooling . regenerative cooling . sodium cooling . solid cryogen cooling . solid cryogen cooling . supercooling . supercooling . surface cooling . thermoelectric cooling . thermoelectric cooling . thermoagnetic cooling ablation ablative materials air conditioning bathing condensing contraction coolants coolers  | RT      | galactic clusters galactic evolution intergalactic media interstellar gas star formation x ray sources  systems absorbers (equipment) air conditioning adir conditioning equipment air conditioning equipment air colling air filters blowers capillary pumped loops closed cycles condensers (liquefiers) coolants coolers dehumidification engine coolants Ettingshausen effect evaporative cooling evaporators exhaust systems freon heat exchangers heat pumps heat radiators heat exchangers heat sinks infrared suppression intake systems liquid cooling lubrication systems refrigerating refrigerating machinery registers (air circulation) solar cooling solid cryogens space cooling (buildings)         | DEF<br>space. Unate sys<br>UF<br>GS     | Sets of measures defining points in Jsed for axes (coordinates) and coordistems.  axes (coordinates) coordinates . astronomical coordinates . cartesian coordinates . computational grids . structured grids (mathematics) . multiblock grids . unstructured grids (mathematics) . ylindrical coordinates . geodetic coordinates . hyperbolic coordinates . hyperbolic coordinates . hyperbolic coordinates . Lagrange coordinates . planetocentric coordinates . planetocentric coordinates . polar coordinates . spherical coordinates . polar coordinates . polar coordinates . polar coordinates . peccentric coordinates . polar coordinates . peccentric coordinates . peccentric coordinates . polar coordinates . polar coordinates . peccentric coordinates . polar coordinates . polar coordinates . peccentric coordinates . polar coordinates . geometry  axes (reference lines) celestial reference systems . Earth axis . equators . Euclidean geometry fractals . Fujita method . geomagnetic latitude . geometry . grids . prids . |

| 0            | ∞ nets                                     |   | lamella (metallurgy)    |          | cuprates                                  |
|--------------|--|---|-------------------------|----------|---|
| 0            | ∞ origins                                  |   | lithium alloys          |          | thermites                                 |
|              | position (location)                        |   |                         |          | YBCO superconductors                      |
| 0            | ∞ reference systems                        | copper                                  | chlorides               |          |   |
|              |  | GS                                      | copper compounds        |          |   |
| coordir      | nation                                     |   | . copper chlorides      |          | selenides                                 |
| RT           | continuity                                 |   | halogen compounds       | GS       | chalcogenides                             |
|              | correlation                                |   | chlorine compounds      |          | . selenides                               |
|              | interfaces                                 |   | chlorides               |          | copper selenides                          |
|              | sequencing                                 |   | copper chlorides        |          | copper indium selenides                   |
|              | time sharing                               |   | . halides               |          | copper compounds                          |
|              | ŭ  |   | chlorides               |          | . copper selenides                        |
| coordin      | nation number                              |   | copper chlorides        |          | copper indium selenides                   |
| (add         | ed June 2002)                              |   | metal halides           |          | selenium compounds                        |
|              | In any system with a lattice structure,    |   | copper chlorides        |          | . selenides                               |
|              | nber of neighboring units for any given    |   | soppor smortass         |          | copper selenides                          |
| unit.        | inder or morginationing arms for any given | conner                                  | compounds               |          | copper indium selenides                   |
| RT           | crystal lattices                           | GS                                      | copper compounds        |          |   |
| 101          | crystal structure                          | 00                                      | . copper chlorides      |          |   |
|              | ligands                                    |   | . copper fluorides      | copper   | sulfides                                  |
|              | molecular structure                        |   | . copper oxides         |          | chalcogenides                             |
|              | numbers                                    |   |                         |          | . sulfides                                |
| 0            |  |   | . copper selenides      |          | inorganic sulfides                        |
|              | x ray spectroscopy                         |   | copper indium selenides |          | copper sulfides                           |
|              | ation volumero                             |   | . copper sulfides       |          | copper compounds                          |
|              | nation polymers                            |   | . cuprates              |          |   |
| RI∘          | ∞ polymers                                 |   | ∞ chemical compounds    |          | . copper sulfides                         |
| _            |  | c                                       |                         |          | sulfur compounds                          |
|              | icus spacecraft                            | c                                       | ∞ metal compounds       |          | . sulfides                                |
| USE          | OAO 3                                      |   |                         |          | inorganic sulfides                        |
|              |  | copper                                  | fluorides               |          | copper sulfides                           |
| copilots     |  | GS                                      | copper compounds        |          |   |
| ÚSE          | aircraft pilots                            |   | copper fluorides        |          |   |
|              | •  |   | halogen compounds       | copyrig  |   |
| coplana      | arity                                      |   | . fluorine compounds    | GS       | intellectual property                     |
| GS           | analysis (mathematics)                     |   | fluorides               |          | . copyrights                              |
|              | . calculus                                 |   | metal fluorides         | RT       | documents                                 |
|              | vector analysis                            |   | copper fluorides        |          | licensing                                 |
|              | coplanarity                                |   |                         |          | patent applications                       |
|              | . real variables                           |   | . halides               |          | policies                                  |
|              | vector analysis                            |   | fluorides               |          | regulations                               |
|              |  |   | metal fluorides         |          |   |
|              | coplanarity                                |   | copper fluorides        |          |   |
|              | geometry                                   |   | metal halides           | coral he | eads                                      |
|              | . vector analysis                          |   | metal fluorides         |          | coral reefs                               |
|              | coplanarity                                |   | copper fluorides        | 002      |   |
|              |  |   |                         |          |   |
|              | merization                                 | copper                                  | indium selenides        | coral re | eefs                                      |
| GS           | chemical reactions                         | (add                                    | ed June 1995)           | UF       | atoll reefs                               |
|              | . copolymerization                         | GS                                      | chalcogenides           | 0.       | coral heads                               |
|              | synthesis (chemistry)                      |   | . selenides             | RT       | atolls                                    |
|              | . polymerization                           |   | copper selenides        | IXI      |   |
|              | . copolymerization                         |   | copper indium selenides |          | coasts                                    |
| RT           | block copolymers                           |   | indium selenides        |          | islands                                   |
|              | dimerization                               |   | copper indium selenides |          | keys (islands)                            |
|              | ∞ polymers                                 |   |                         |          | reefs                                     |
|              | vinyl copolymers                           |   | copper compounds        |          |   |
|              | viriyi copolymers                          |   | . copper selenides      |          |   |
| a a m a li m |  |   | copper indium selenides | cordag   |   |
| copoly       |  |   | indium compounds        | RT       | cables (ropes)                            |
|              | Polymers formed from two or more           |   | . indium selenides      |          | ceramic fibers                            |
|              | f monomers.                                |   | copper indium selenides |          | connectors                                |
| GS           |  |   | selenium compounds      |          | cotton                                    |
|              | . block copolymers                         |   | . selenides             |          | fibers                                    |
|              | . vinyl copolymers                         |   | copper selenides        | c        | ∘ filaments                               |
|              | . Viton rubber (trademark)                 |   | copper indium selenides |          | strands                                   |
| RT           | KEL-F                                      |   | indium selenides        |          | strings                                   |
|              | polymer blends                             |   | copper indium selenides |          | wire                                      |
| 0            | ∞ polymers                                 | RT                                      |                         |          | yarns                                     |
|              | 1-7  | • | solar cells             |          | yams                                      |
| copper       |  |   | thin films              |          |   |
| GS           | chemical elements                          |   | umi IIIIIo              | Cordeli  | 3   |
| 00           |  | connor                                  | isotopes                |          |   |
|              | . copper                                   |   |                         |          | ed January 1996)                          |
|              | copper isotopes                            | GS                                      | chemical elements       |          | A natural satellite of Uranus orbiting at |
|              | metals                                     |   | . copper                |          | distance of 49,750 kilometers.            |
|              | . transition metals                        |   | copper isotopes         | GS       | celestial bodies                          |
|              | . copper                                   |   | . nuclides              |          | . natural satellites                      |
|              | copper isotopes                            |   | isotopes                |          | Uranus satellites                         |
| RT           | ammines                                    |   | radioactive isotopes    |          | Cordelia                                  |
|              | constantan                                 |   | copper isotopes         | RT       | Uranus (planet)                           |
|              | heavy metals                               |   | metals                  |          |   |
|              | selenium alloys                            |   | . transition metals     |          |   |
|              | <del>-</del>                               |   | copper                  | cordier  | ite                                       |
| copper       | allovs                                     |   | copper isotopes         | GS       | aluminum compounds                        |
|              | alloys                                     |   | coppor isotopos         | 00       | . cordierite                              |
| 50           | •  | connor                                  | ovides                  |          |   |
|              | . copper alloys                            |   | oxides<br>chalcogonidos |          | iron compounds                            |
|              | babbitt metal                              | GS                                      | chalcogenides           |          | . cordierite                              |
|              | brasses                                    |   | . oxides                |          | magnesium compounds                       |
|              | bronzes                                    |   | metal oxides            |          | . cordierite                              |
| _            | Manganin (trademark)                       |   | copper oxides           |          | minerals                                  |
| RT           | aluminum-lithium alloys                    |   | copper compounds        |          | . cordierite                              |
|              |  |   |                         |          |   |
|              | bearing alloys                             |   | copper oxides           |          | silicon compounds                         |
|              |  | RT                                      | copper oxides           |          | silicon compounds<br>. silicates          |

|                | cordierite                               |              | rotation   |         | iges of the solar limb and believed to  |
|----------------|--|--------------|--|---------|---|
| 00 401:40      |  |              | vestibular tests                                 |         | from the introduction of energy and den-  |
| cordite<br>USE | colloidal propellants                    | cork (m      | naterials)                                       |         | turbations at the top of an arched, cylin-<br>agnetic flux tube initially in equilibrium in |
| USE            | double base propellants                  | GS GS        | wood   |         | , ,   |
|                | double base propenants                   | 00           | . cork (materials)                               |         | onal plasma.<br>coronas   |
| core flo       | w  | RT o         | ∞ materials                                      | 00      | . stellar coronas   |
| GS             | fluid flow                               |              | organic materials                                |         | solar corona  |
|                | . core flow                              |              | thermal insulation                               |         | coronal loops   |
| RT             | flow geometry                            |              |  | RT      | chromosphere  |
|                | magnetohydrodynamic flow                 | corn         |  |         | coronal mass ejection   |
|                | one dimensional flow                     | UF           | zea mays   |         | solar flares  |
|                | plasmas (physics)                        | GS           | farm crops                                       |         | solar limb  |
|                | shear flow                               |              | . grains (food)                                  |         |   |
| 0010 00        | malina                                   |              | corn   |         | I mass ejection   |
| core sa<br>GS  | sampling                                 |              | plants (botany)                                  | GS (add | ed June 1997)<br>ejection   |
| 00             | . core sampling                          | RT           | . corn<br>agriculture                            | 63      | . stellar mass ejection   |
| RT             | cores                                    | IXI          | blight   |         | coronal mass ejection   |
|                | depth measurement                        |              | bollworms  | RT      | coronal loops   |
|                | drilling                                 |              | botany   |         | interplanetary shock waves  |
|                | Earth crust                              |              | crop growth                                      |         | solar corona  |
|                | hydrogeology                             | c            | ∘ crops  |         | solar flares  |
|                | mines (excavations)                      |              | curing   |         | solar wind  |
|                | ocean bottom                             |              | Earth resources                                  |         | stellar coronas   |
|                | ocean currents                           | c            | ∘ food   |         | STEREO (observatory)  |
|                | oceanography                             |              | irrigation                                       |         |   |
|                | particle tracks                          |              | seeds  |         | ry artery disease   |
|                | salinity                                 |              |  | GS      | diseases  |
|                | samplers                                 | cornea<br>GS | anatomy  |         | . heart diseases  |
| core st        | orane                                    | GS           | anatomy . sense organs                           | RT      | coronary artery disease angina pectoris   |
| UF             | machine storage                          |              | eye (anatomy)                                    | 131     | arteriosclerosis  |
| GS             | computer components                      |              | cornea   |         | myocardial infarction   |
|                | . computer storage devices               | RT           | keratitis  |         | ,   |
|                | random access memory                     |              | vision   | corona  | ry circulation  |
|                | core storage                             |              |  | GS      | circulation   |
|                | magnetic storage                         | corner       | flow   |         | . blood circulation   |
|                | . core storage                           | GS           | fluid flow                                       |         | coronary circulation  |
|                | memory (computers)                       |              | . corner flow                                    | RT      | heart   |
|                | . random access memory                   | RT           | cavity flow                                      |         | heart valves  |
| БТ             | core storage                             |              | channel flow                                     | corona  | e .   |
| RT             | bubble memory devices                    |              | ducted flow                                      | GS      | coronas   |
|                | buffer storage                           | c            | ∘ flow<br>nozzle flow                            | 00      | . electric corona   |
|                | data storage<br>magnetic disks           |              | secondary flow                                   |         | . stellar coronas   |
|                | magnetic disks                           |              | secondary now                                    |         | solar corona  |
| ۰              | storage                                  | corners      | 3  |         | coronal holes   |
|                | otorago                                  | RT           | angles (geometry)                                |         | coronal loops   |
| core-ma        | antle boundary                           |              | antennas   | RT      | electric arcs   |
| (add           | ed August 1994)                          |              | joints (junctions)                               |         | electric discharges   |
| GS             | boundaries                               |              | shapes   |         | halos   |
|                | core-mantle boundary                     | _            |  |         | ionization  |
| RT             | boundary layers                          |              | Borealis constellation                           |         | solar spectra   |
|                | Earth core                               | GS           | constellations                                   | corotat | ion   |
|                | Earth mantle                             | DT           | . Corona Borealis constellation celestial bodies | GS      |   |
|                | lunar mantle                             | KI           | celestial sphere                                 | 00      | . rotation  |
|                | planetary boundary layer planetary cores |              | stars  |         | corotation  |
|                | planetary mantles                        |              | oldro  | RT      | astronomical models   |
|                | regolith                                 | corona       | discharges                                       |         | Earth magnetosphere   |
|                | tectonics                                |              | electric corona                                  |         | galactic rotation   |
|                |  |              |  |         | galactic structure  |
| cores          |  | corona       | graphs   |         | spiral galaxies   |
| GS             | cores                                    | RT           |  |         | stellar motions   |
|                | . honeycomb cores                        |              | solar observatories                              |         | stellar rotation  |
|                | . lunar core                             |              | spectroheliographs                               | Cornor  | al missile  |
|                | . magnetic cores                         |              | Starsat telescope                                | GS      | missiles  |
|                | . planetary cores                        |              | telescopes                                       | 00      | . surface to surface missiles   |
|                | . Earth core reactor cores               | corono       | l halas  |         | Corporal missile  |
|                | . stellar cores                          | corona       | Solar areas where externe UV and x               | RT      | liquid propellant rocket engines  |
| PT o           | cells                                    |              | onal emission is abnormally low or ab-           |         | da.ra b. ab anam a ana an âmaa  |
| 1(1 0          | core sampling                            |              | nese are coronal regions apparently as-          | corpuso | cles (blood)  |
|                | mandrels                                 |              | d with diverging magnetic fields.                | USE     | blood cells   |
|                | molding materials                        |              | coronas  |         |   |
|                | Š  |              | . stellar coronas                                |         | cular radiation   |
| Coriolis       | effect                                   |              | solar corona                                     | SN      | (LIMITED TO NONELECTROMAGNETIC  |
|                | The physiological effect felt by a per-  |              | coronal holes                                    |         | RADIATION CONSISTING OF ENERGETIC CHARGED OR NEUTRAL PARTICLES)                             |
|                | ving radially in a rotating system, as a | RT           | decametric waves                                 |         | Nonelectromagnetic radiation consist-   |
|                | space station resulting in nausea ver-   | c            | ∘ holes  |         | energetic charged or neutral particles.   |
|                | ziness, etc. Named after Gaspard G.      |              | radio astronomy                                  |         | r penetrating particles.  |
|                | (d 1843), French civil engineer.         |              | solar radio emission                             | UF      | penetrating particles   |
|                | disorientation                           |              | solar wind                                       | GS      | particles   |
| ٥              | effects                                  |              | solar x-rays                                     |         | . corpuscular radiation   |
|                | gyres<br>Kelvin waves                    |              | stellar structure ultraviolet radiation          |         | electron precipitation electron radiation   |
|                | meteorology                              |              | attaviolet radialion                             |         | beta particles  |
|                | planetary waves                          | corona       | Lloops   |         | electron beams  |
|                | rotating environments                    | DEF          |  |         | relativistic electron beams   |
|                | <b>5</b>                                 |              | •  |         |   |

| energetic particles   | ionizing radiation   | . correlation coefficients  |
|---|--|---|
| electrons   | ions   | RT quality control  |
| conduction electrons  | mesons   | statistical correlation   |
| free electrons  | neutrons   |   |
|   | nuclear particles  | correlation detection   |
| high energy electrons   |  | DEF A method of detection in which a signal   |
| relativistic electron beams   | nuclear radiation  |   |
| hot electrons   | nuclei (nuclear physics)   | is compared, point-to-point, with an internally   |
| N electrons   | particle production  | generated reference.  |
|   | phonon beams   | GS correlation  |
| negatrons   | pulsed radiation   | . correlation detection   |
| photoelectrons  | ∞ radiation  | detection   |
| pi-electrons  | radiation distribution   | . signal detection  |
| polarons  |  | correlation detection   |
| solar electrons   | radiation pressure   |   |
| nuclei (nuclear physics)  | radiation sources  | RT ∞ detectors  |
|   | ∞ rays   | electromagnetic wave filters  |
| alpha particles   | reflected waves  | phase lock demodulators   |
| deuterons   | refracted waves  | signal to noise ratios  |
| even-even nuclei  | solar radiation  | 3   |
| heavy nuclei  |  | correlation functions   |
| hypernuclei   | solar terrestrial interactions   | USE correlation   |
| odd-even nuclei   | stratosphere radiation   | USE COITEIALION   |
|   |  |   |
| odd-odd nuclei  | correction   | correlators   |
| tritons   | DEF A quantity, equal in absolute magni-   | SN (LIMITED TO DEVICES THAT DETECT  |
| plasmas (physics)   | tude to the error, added to a calculated or  | WEAK SIGNALS IN NOISE BY<br>PERFORMING AN ELECTRONIC  |
| argon plasma  | observed value to obtain a true value.   | PERFORMING AN ELECTRONIC  |
| beta particles  |  | OPERATION)  |
|   | GS correction  | DEF Devices that detect weak signals in   |
| boundary layer plasmas  | . atmospheric correction   | noise by performing an electronic operation.  |
| cold plasmas  | . optical correction procedure   | Used for synchronous detectors.   |
| collisional plasmas   | RT accommodation   | UF synchronous detectors  |
| strongly coupled plasmas  |  | GS correlators  |
| collisionless plasmas   | accuracy   |   |
|   | adaptation   | image correlators   |
| cosmic plasma   | adjusting  | . optical correlators   |
| cylindrical plasmas   | alignment  | RT synchroscopes  |
| dense plasmas   | error correcting devices   | ·   |
| plasma focus  | · · · · · · · · · · · · · · · · · · ·  | corridors   |
| strongly coupled plasmas  | errors   |   |
|   | improvement  |   |
| electron plasma   | information theory   | . Great Plains Corridor (North  |
| electron-positron plasmas   | intercalibration   | America)  |
| elliptical plasmas  | parity   | St Louis-Kansas City Corridor (MO)  |
| helium plasma   |  | RT passageways  |
| high temperature plasmas  | redundancy<br>· ·  | passagemaje   |
|   | revisions  | i-n   |
| hydrogen plasma   | vegetative index   | corrosion   |
| deuterium plasma  |  | DEF The deterioration of a metal by chemi-  |
| laser plasmas   | correlation  | cal or electrochemical reaction with its environ-   |
| metallic plasmas  | DEF In statistics, a relationship between  | ment. Used for metal corrosion.   |
| cesium plasma   |  | UF metal corrosion  |
|   | two occurrences which is expressed as a num-   |   |
| uranium plasmas   | ber between minus one (-1) and plus one (+1).  | GS corrosion  |
| microplasmas  | Used for correlation functions.  | . cavitation corrosion  |
| nitrogen plasma   | UF correlation functions   | . electrochemical corrosion   |
| nonequilibrium plasmas  | GS correlation   | . fretting corrosion  |
| nonuniform plasmas  |  | . fuel corrosion  |
|   | . angular correlation  | . hot corrosion   |
| oxygen plasma   | . autocorrelation  |   |
| rarefied plasmas  | . correlation coefficients   | . intergranular corrosion   |
| relativistic plasmas  | . correlation detection  | . rusting   |
| rotating plasmas  | . cross correlation  | . scale (corrosion)   |
| semiconductor plasmas   | . data correlation   | . stress corrosion  |
| space plasmas   |  | stress corrosion cracking   |
|   | . spectral correlation   |   |
| solar wind  | . statistical correlation  | . transgranular corrosion   |
| stellar winds   | RT bivariate analysis  | RT chemical attack  |
| dusty plasmas   | collating  | chemical reactions  |
| sphérical plasmas   | confidence   | coatings  |
| thermal plasmas   | contingency  | damage  |
| toroidal plasmas  | 0 ,  | degradation   |
|   | coordination   |   |
| primary cosmic rays   | covariance   | deposits  |
| solar cosmic rays   | ∞ estimators   | deterioration   |
| radiation belts   | evaluation   | dissolving  |
| artificial radiation belts  |  | durability  |
| inner radiation belt  | tactor analysis  |   |
|   | factor analysis  | electrochemistry  |
| outer radiation halt  | forecasting  | electrochemistry  |
| outer radiation belt  | forecasting information theory   | electrolysis  |
| proton belts  | forecasting  | electrolysis<br>erosion   |
|   | forecasting<br>information theory<br>least squares method  | electrolysis  |
| proton belts solar corpuscular radiation  | forecasting<br>information theory<br>least squares method<br>multivariate statistical analysis   | electrolysis<br>erosion<br>etchants   |
| proton belts solar corpuscular radiation solar electrons  | forecasting<br>information theory<br>least squares method<br>multivariate statistical analysis<br>optimization   | electrolysis<br>erosion<br>etchants<br>etching  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos  | forecasting information theory least squares method multivariate statistical analysis optimization probability theory  | electrolysis<br>erosion<br>etchants<br>etching<br>failure   |
| proton belts     solar corpuscular radiation     solar electrons     solar neutrinos     solar neutrons   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control  | electrolysis erosion etchants etching failure finishes  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory  | electrolysis erosion etchants etching failure finishes fouling  |
| proton belts     solar corpuscular radiation     solar electrons     solar neutrinos     solar neutrons   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control  | electrolysis erosion etchants etching failure finishes  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients  | electrolysis erosion etchants etching failure finishes fouling  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation  | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance   | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation)   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology)  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation  | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings   |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation)   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology)  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation  | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings   |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation continuous radiation   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions oxidation  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation continuous radiation cosmic rays  | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variance (statistics)  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings  metallurgy metal-water reactions oxidation passivity   |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation continuous radiation cosmic rays electromagnetic radiation   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variance (statistics)  correlation coefficients  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions oxidation passivity pitting  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons RT alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation continuous radiation cosmic rays  | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variance (statistics)  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings  metallurgy metal-water reactions oxidation passivity   |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation continuous radiation cosmic rays electromagnetic radiation   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variance (statistics)  correlation coefficients  | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions oxidation passivity pitting  |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation cosmic rays electromagnetic radiation extraterrestrial radiation flux (rate)   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variance (statistics)  correlation coefficients GS coefficients . correlation coefficients                         | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions oxidation passivity pitting protective coatings salt spray tests                       |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation continuous radiation cosmic rays electromagnetic radiation extraterrestrial radiation flux (rate) galactic radiation | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variability variance (statistics)  correlation coefficients GS coefficients . correlation coefficients correlation | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions oxidation passivity pitting protective coatings salt spray tests sterilization effects |
| proton belts solar corpuscular radiation solar electrons solar neutrinos solar neutrons solar protons alpha particles atmospheric radiation background radiation beams (radiation) Cerenkov radiation charged particles coherent radiation cosmic rays electromagnetic radiation extraterrestrial radiation flux (rate)   | forecasting information theory least squares method multivariate statistical analysis optimization probability theory quality control regression analysis regression coefficients significance statistical analysis teleconnections (meteorology) time series analysis validity variability variance (statistics)  correlation coefficients GS coefficients . correlation coefficients                         | electrolysis erosion etchants etching failure finishes fouling gas-metal interactions humidity impingement incompatibility metal coatings ∞ metallurgy metal-water reactions oxidation passivity pitting protective coatings salt spray tests                       |

|         | woor                              |                 | reinforced shells  |         | . ESA satellites  |
|---------|-----------------------------------|-----------------|--|---------|---|
|         | wear<br>weathering                |                 | Tellilorced Silelis  |         | COS-B satellite   |
|         | weathening                        | corrug          | ated waveguides  | RT      | Europa 2 launch vehicle   |
| corroci | on prevention                     |                 | led February 1998)   | IXI     | European space programs   |
| GS      | prevention                        |                 | waveguides   |         | gamma ray sources (astronomy)   |
| 00      | . corrosion prevention            |                 | . corrugated waveguides                                      |         | gamma ray sources (astronomy)   |
|         | protection                        | RT              | gratings (spectra)   | cosine  | series  |
|         | . corrosion prevention            |                 | optical waveguides   | GS      | analysis (mathematics)  |
| RT      | aeration                          |                 | waveguide antennas   |         | . calculus  |
|         | antifouling                       |                 | · ·  |         | series (mathematics)  |
|         | antioxidants                      | corruga         | ating  |         | cosine series   |
|         | cavitation corrosion              | RT              |  |         | . real variables  |
|         | chemical attack                   |                 | corrugated shells  |         | differential equations  |
|         | cleaning                          |                 | deformation  |         | cosine series   |
|         | coating                           |                 | grooves  |         | periodic functions  |
|         | coatings                          |                 | ∞ plates   |         | trigonometric functions   |
|         | desensitizing                     |                 | ∞ ridges   |         | cosine series   |
| 0       | films                             | c               | ∞ waves  |         | series (mathematics)  |
|         | fuel tanks                        |                 |  |         | cosine series   |
| 0       | o inhibition                      |                 | aircraft   |         | functions (mathematics)   |
|         | inhibitors                        | USE             | A-7 aircraft   |         | . transcendental functions  |
|         | metal coatings                    | a cortov        | ne .   |         | periodic functions  |
|         | nickel coatings                   | ∞ cortexe<br>SN |  |         | trigonometric functions   |
|         | packaging                         | SIN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | БТ      | cosine series   |
|         | passivity                         |                 | LISTED BELOW)  | RT      | wavelet analysis  |
|         | preserving                        | RT              |  | Coomic  | Bookers and Evalorer cotallite  |
|         | propellant additives              |                 | cortexes (botany)  |         | Background Explorer satellite A NASA satellite launched on Novem-       |
|         | sensitizing                       |                 |  |         |   |
|         | siliconizing                      |                 | es (botany)  |         | 1989 on a Delta I expendable launch It is designed to measure backgound |
|         | surface finishing                 | RI «            | ∞ cortexes   |         | n in order to confirm or deny the big bang                              |
|         | surface treatment                 |                 | plants (botany)  |         | Used for COBE.  |
|         | water treatment                   | Cortio          | raan   | UF      | COBE  |
|         | weatherproofing                   | Corti o         | _  | GS      | artificial satellites   |
|         |                                   | GS              | anatomy  | 00      | . scientific satellites   |
|         | on resistance                     |                 | . sense organs   |         | Explorer satellites   |
| GS      | corrosion resistance              |                 | ear  |         | Cosmic Background Explorer  |
| БТ      | . oxidation resistance            |                 | labyrinth<br>cochlea   |         | satellite   |
| RT      | antioxidants                      |                 | Corliea  | RT      | background radiation  |
|         | cavitation corrosion              |                 | Corti organi   | 101     | radiation spectra   |
|         | chemical attack                   | cortico         | steroids   |         | spaceborne astronomy  |
|         | chemical tests                    | GS              | organic compounds  |         | opacoborno actionomy  |
|         | passivity                         | 00              | . lipids   | cosmic  | dust  |
|         | pitting                           |                 | steroids   | DEF     | Finely divided solid matter with particle                               |
| 0       | resistance                        |                 | corticosteroids  |         | maller than a micrometeorite, thus with                                 |
|         | rusting                           |                 | aldosterone  | diamete | ers much smaller than a millimeter, mov-                                |
|         | salt spray tests                  |                 | hydroxycorticosteroid  |         | terplanetary space.   |
|         | siliconizing<br>sulfidation       |                 | cortisone  | ĞS      | extraterrestrial matter   |
|         | surface finishing                 |                 | glucocorticoids  |         | . interstellar matter   |
|         | surface infishing                 |                 | secretions   |         | cosmic dust   |
| corroci | on toot loons                     |                 | . endocrine secretions                                       |         | interplanetary dust   |
| GS      | on test loops environmental tests |                 | hormones   |         | meteoroid dust clouds   |
| GS      | . corrosion tests                 |                 | corticosteroids  |         | zodiacal dust   |
|         | corrosion test loops              |                 | aldosterone  |         | particles   |
|         | · ·                               |                 | hydroxycorticosteroid  |         | . dust  |
|         | loops . corrosion test loops      |                 | cortisone  |         | cosmic dust   |
| PT ~    | • tests                           |                 | glucocorticoids  |         | interplanetary dust   |
| 111 *   | • 10313                           | RT              | adrenal metabolism   |         | meteoroid dust clouds   |
| corrosi | on tests                          |                 |  |         | zodiacal dust   |
| GS      | environmental tests               | cortiso         |  | RT      | infrared cirrus (astronomy)   |
| 00      | . corrosion tests                 | GS              | drugs  |         | intergalactic media   |
|         | corrosion test loops              |                 | cortisone  |         | meteoroids  |
|         | salt spray tests                  |                 | organic compounds  |         | micrometeorites   |
| RT      | cavitation corrosion              |                 | . lipids   |         | micrometeoroids   |
| -       | chemical attack                   |                 | steroids   |         | molecular clouds<br>organic solids                                      |
|         | destructive tests                 |                 | corticosteroids  |         | polycyclic aromatic hydrocarbons  |
|         | fuel tests                        |                 | hydroxycorticosteroid cortisone                              |         | reflection nebulae  |
| 0       | materials tests                   |                 | secretions   |         | space debris  |
|         | pitting                           |                 | . endocrine secretions                                       |         | terrestrial dust belt   |
|         | propellant tests                  |                 | . hormones   |         | Venus fly trap rocket vehicle   |
|         | stability tests                   |                 | corticosteroids  |         | venus ny trap rocket venicle  |
|         | stress corrosion cracking         |                 | hydroxycorticosteroid  | cosmic  | gamma ray bursts  |
| 0       | o tests                           |                 | cortisone  |         | gamma ray bursts  |
|         | transgranular corrosion           | RT              | adrenal metabolism   |         | <b>J</b>  |
|         | underwater tests                  | 141             | carbohydrate metabolism                                      | cosmic  | gases   |
|         | weathering                        |                 | ,,   | GS      | extraterrestrial matter   |
|         |                                   | corundi         | um   |         | . cosmic gases  |
|         | ited plates                       | USE             | aluminum oxides  |         | interplanetary gas  |
| GS      | structural members                |                 |  |         | interstellar gas  |
|         | . plates (structural members)     | Corvus          | missile  |         | gases   |
|         | corrugated plates                 | GS              | missiles   |         | . rarefied gases  |
| RT      | corrugating                       |                 | . Corvus missile   |         | cosmic gases  |
|         | reinforced plates                 | RT              | liquid propellant rocket engines                             |         | interplanetary gas  |
|         |                                   |                 |  |         | interstellar gas  |
|         | ated shells                       |                 | satellite  | RT      | cooling flows (astrophysics)  |
| GS      | shells (structural forms)         | GS              | artificial satellites  |         | degenerate matter   |
| _ :     | corrugated shells                 |                 | . ESA satellites   |         | electron gas  |
| RT      | anisotropic shells                |                 | COS-B satellite  |         | intergalactic media   |
|         | corrugating                       |                 | ESA spacecraft   |         | ionized gases   |

neutral gases Auger showers with the chemical composition and changes in Sunyaev-Zeldovich effect Moliere formula the universe. GS ionizing radiation RT ∞ chemistry cosmic microwave background radiation . cosmic rays cosmology (added July 2000) . . cosmic ray showers extraterrestrial matter CMBR (astronomy) Auger effect geochemistry background radiation ∞ cascades interstellar chemistry . cosmic microwave background electron photon cascades isotope ratios radiation secondary cosmic rays laboratory astrophysics electromagnetic radiation meteoritic composition . radio waves . . extraterrestrial radio waves cosmogony USE **cosmology** cosmic rays ... cosmic microwave background DEF The aggregate of extremely high energy subatomic particles which travel the solar radiation . . short wave radiation system and bombard the earth from all direccosmology cosmogony cosmology . . . microwaves tions. Cosmic ray primaries seem to be mostly protons, hydrogen nuclei, but also contain heavier nuclei. On colliding with atmospheric UF . . . . cosmic microwave GS big bang cosmology

Hubble diagram background radiation extraterrestrial radiation particles thay produce many different kinds of . missing mass (astrophysics) astronomical models . extraterrestrial radio waves lower energy secondary cosmic radiation. Used . . cosmic microwave background for cosmic radiation. astrophysics cosmic microwave background radiation cosmic radiation cosmology Microwave Anisotropy Probe GS ionizing radiation . cosmic rays radiation radio astronomy . . cosmic ray showers cosmochemistry relic radiation . . galactic cosmic rays dark energy Sunyaev-Zeldovich effect . . gamma ray bursts dark matter . . primary cosmic rays event horizon cosmic noise . solar cosmic rays existence Interference caused by cosmic radio DEF . . secondary cosmic rays galactic evolution waves. aerospace environments grand unified theory electromagnetic interference . radio frequency interference . . electromagnetic noise GS gravitinos albedo Alpha Magnetic Spectrometer alpha particles Hubble constant large-scale structure of the universe . . cosmic noise local group (astronomy) big bang cosmology Alouette project background noise Cerenkov radiation mass distribution naked singularities corpuscular radiation background radiation nuclear astrophysics deuterons centimeter waves electromagnetic radiation planetary evolution electromagnetic noise measurement electron acceleration Population III stars galactic radiation protoplanets electrons galactic radio waves extraterrestrial radiation red shift interstellar radiation star distribution Forbush decreases microwave emission star formation galactic radiation microwaves stellar evolution gamma ray telescopes stellar mass accretion noise storms gamma rays solar radiation string theory heliosphere solar radio emission supergravity interstellar radiation supersymmetry
Tully-Fisher relation ion density (concentration) cosmic plasma mesons extraterrestrial matter universe neutrons . cosmic plasma white holes (astronomy) nuclear particles particles nuclei (nuclear physics) . charged particles particle tracks cosmonauts . . energetic particles photons GS personnel . . . plasmas (physics) protons . flying personnel .... cosmic plasma ∞ radiation . cosmonauts . corpuscular radiation radiation belts RT ∞ astronautics . . energetic particles radiative transfer astronauts ... plasmas (physics) scintillating fibers crew experiment stations ... cosmic plasma single event upsets crew observation stations intergalactic media solar radiation crew workstations interplanetary gas stellar radiation crews plasma clouds pilots (personnel) VLF emission recorders plasmapause Russian Space Program x ravs relativistic plasmas spacecrews solar wind cosmic x rays stellar winds GS electromagnetic radiation ∞ cosmos strongly coupled plasmas (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . x rays . cosmic x rays cosmic radiation ionizing radiation RT Cosmos satellites USE cosmic rays . x rays universe . cosmic x rays cosmic radio waves extraterrestrial radiation Cosmos 2 satellite USE extraterrestrial radio waves galactic radiation GS artificial satellites gamma ray astronomy cosmic ray albedo . geophysical satellites gamma ray bursts . . Cosmos satellites GS albedo gamma rays . cosmic ray albedo . Cosmos 2 satellite x ray astronomy . Soviet satellites absorptance x ray binaries . . Cosmos satellites ∞ absorption x ray sources atmospheric attenuation ... Cosmos 2 satellite Earth albedo cosmions lunar albedo Cosmos 3 satellite (added November 1999) primary cosmic rays GS artificial satellites USE weakly interacting massive . geophysical satellites reflectance

particles

DEF The branch of chemistry that deals

cosmochemistry

secondary cosmic rays

cosmic ray showers

UF air showers

. . Cosmos satellites

. . Cosmos satellites

. . . Cosmos 3 satellite . Soviet satellites

... Cosmos 3 satellite

Cosmos 5 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

Cosmos 5 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 5 satellite

Cosmos 6 satellite

GS artificial satellites

. geophysical satellites

.. Cosmos satellites . Cosmos 6 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 6 satellite

Cosmos 14 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. . Cosmos 14 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 14 satellite

Cosmos 44 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 44 satellite

. Soviet satellites . . Cosmos satellites

... Cosmos 44 satellite

Cosmos 54 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 54 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 54 satellite

Cosmos 71 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 71 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 71 satellite

Cosmos 110 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 110 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 110 satellite

Cosmos 137 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 137 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 137 satellite

Cosmos 144 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. . . Cosmos 144 satellite

. meteorological satellites

. Cosmos 144 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 144 satellite

Cosmos 149 satellite

Space Arrow satellite GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 149 satellite

Soviet satellites

. . Cosmos satellites

... Cosmos 149 satellite

Cosmos 166 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 166 satellite

. Soviet satellites . . Cosmos satellites

... Cosmos 166 satellite

Cosmos 186 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 186 satellite

. Soviet satellites

. . Cosmos satellites

. . . Cosmos 186 satellite

Cosmos 188 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

Cosmos 188 satellite . Soviet satellites

. . Cosmos satellites

... Cosmos 188 satellite

Cosmos 206 satellite

GS artificial satellites

. geophysical satellites

.. Cosmos satellites

... Cosmos 206 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 206 satellite

Cosmos 213 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 213 satellite . Soviet satellites

. . Cosmos satellites

. . . Cosmos 213 satellite

Cosmos 224 satellite

GS artificial satellites

. geophysical satellites

.. Cosmos satellites ... Cosmos 224 satellite

Soviet satellites

. . Cosmos satellites

... Cosmos 224 satellite

Cosmos 225 satellite

GS artificial satellites

. geophysical satellites . . Cosmos satellites

Cosmos 225 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 225 satellite

Cosmos 381 satellite

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 381 satellite . Soviet satellites

. . Cosmos satellites

. . . Cosmos 381 satellite

Cosmos 782 satellite

One in a series of satellites launched by the USSR reportedly for geophysical observations.

artificial satellites GS

. Soviet satellites

. Cosmos 782 satellite

RT international cooperation

Cosmos 936 satellite

One in a series of satellites launched by the USSR reportedly for geophysical observations

GS artificial satellites

. Soviet satellites

Cosmos 936 satellite

RT international cooperation

Cosmos 954 satellite

DEF A Russian ocean surveillance satellite which reentered over Canada spreading radioactive debris.

GS artificial satellites

. geophysical satellites

. . Cosmos satellites . Cosmos 954 satellite

. Soviet satellites

. . Cosmos satellites . Cosmos 954 satellite

RT uncontrolled reentry (spacecraft)

Cosmos 1129 satellite

DEF Soviet VOSTOK biological spacecraft launched on September 25, 1979 carrying experiments from several nations. NASA contributed 13 experiments.

GS artificial satellites

. geophysical satellites

. . Cosmos satellites

. Cosmos 1129 satellite

. Soviet satellites

. . Cosmos satellites

... Cosmos 1129 satellite

RT international cooperation Cosmos satellites

GS artificial satellites

. geophysical satellites . . Cosmos satellites

Cosmos 2 satellite Cosmos 3 satellite

Cosmos 5 satellite

Cosmos 6 satellite Cosmos 14 satellite

Cosmos 44 satellite

Cosmos 54 satellite Cosmos 71 satellite

Cosmos 110 satellite Cosmos 137 satellite

Cosmos 144 satellite

Cosmos 149 satellite

Cosmos 166 satellite

Cosmos 186 satellite Cosmos 188 satellite

... Cosmos 206 satellite

Cosmos 213 satellite

Cosmos 224 satellite

Cosmos 225 satellite

... Cosmos 381 satellite

Cosmos 954 satellite ... Cosmos 1129 satellite

Intercosmos satellites

. Soviet satellites . . Cosmos satellites

... Cosmos 2 satellite

Cosmos 3 satellite Cosmos 5 satellite

Cosmos 6 satellite

Cosmos 14 satellite

Cosmos 44 satellite

Cosmos 54 satellite Cosmos 71 satellite

Cosmos 110 satellite

Cosmos 137 satellite

Cosmos 144 satellite Cosmos 149 satellite

Cosmos 166 satellite Cosmos 186 satellite

Cosmos 188 satellite

Cosmos 206 satellite Cosmos 213 satellite

Cosmos 224 satellite Cosmos 225 satellite

... Cosmos 381 satellite Cosmos 954 satellite . . . Cosmos 1129 satellite

. . . Intercosmos satellites  $RT \, \infty \, cosmos$ 

COSPAR (committee) USE Committee on Space Research

COSPAS

DEF The USSR satellite of the COSPAS-

SarSat project which is a satellite-aided project Costa Rica internal flow for the search and rescue of distressed vehicles, Central America rotating cylinders RT administered by USSR, US, French, and Canadian agencies. costs Cougar aircraft GS artificial satellites GS costs USE F-9 aircraft COSPAS freight costs reconnaissance launch costs cough reflexes rescue operations life cycle costs GS SarSat . low cost . respiratory reflexes operating costs . cough searching . production costs signs and symptoms Cosserat surfaces . aircraft production costs cough expellants RT flat surfaces accounting aircraft production ∞ surface geometry surface properties commerce coulees cost analysis USE canyons ∞ surfaces cost estimates Coulomb collisions cost analysis damage assessment The collisions of sets of two particles UF cost benefit analysis design to cost RT ∞ analyzing economic analysis both of which are charged. budgeting economic factors GS collisions Coulomb collisions comparison economic impact costs RT charged particles economics design to cost efficiency Coulomb potential economic analysis estimating GS potential energy feasibility evaluation feasibility analysis electric potential feasibility financial management financial management Coulomb potential charged particles life cycle costs gross national product management coulometry revenue electric field strength management analysis task complexity management planning electric fields tasks optical transfer function ∞ potential value production costs coulometers proposals Cote d'Ivoire DEF Electrolytic cells or electronic devices value engineering (added September 1993) Ivory Coast arranged to measure the quantity of electricity UF wage surveys by the chemical action produced in accordance GS nations with Faraday's law. cost benefit analysis Cote d'Ivoire measuring instruments RT (added April 2000) Africa USE cost analysis . coulometers ammeters cost effectiveness COTS products chemical analysis (added March 2001) cost effectiveness
UF cost benefit analysis coulometry USE commercial off-the-shelf products electrical measurement effectiveness electrochemistry GS cotton electrodeposition cost effectiveness GS farm crops electrolysis RT allocations cotton titration budgeting plants (botany) voltmeters commercial off-the-shelf products cotton life cycle costs RT boll weevils coulometry bollworms cost estimates GS electrical measurement clothing . coulometry estimates GS cordage electrochemistry . cost estimates cotton fibers . electrolysis aircraft production costs Earth resources appropriations . coulometry fabrics Coulomb potential budgeting fibers costs textiles coulometers economic analysis yarns economy countdown estimators cotton fibers A step-by-step process that culminates in a climactic event, each step being performed federal budgets clothing in accordance with a schedule marked by a financial management cotton fibers count in inverse numerical order; specifically, management fibers production costs . cotton fibers this process is used in leading up to the launch . value engineering textiles of a large of complicated rocket vehicle, or in leading up to a captive test, a readiness firing, a wage surveys . cotton fibers RT mock firing or other firing test. cotton cost incentives GS preflight operations crepe efficiency . countdown organic materials incentive techniques schedules . countdown management couches RT beds checkout value engineering cushions crew procedures (preflight) cost reduction harnesses launching commonality seats liftoff (launching) efficiency prelaunch problems incentive techniques Couette flow prelaunch tests launch costs GS fluid flow space vehicle checkout program . steady flow spacecraft launching management ... Couette flow management methods windows (intervals) management planning . two dimensional flow rapid prototyping . . Couette flow counter rotation small satellite technology . viscous flow DEF Movement of sets of bodies or fluids value engineering . . Couette flow around a common axis where movement in own

RT

wade surveys

Costa Rica

GS nations

annular flow

axisymmetric flow

Brinkman number

Hartmann flow

rotational direction is opposed by movement in

the opposite direction.

gyration

. rotation

GŚ

|        | counter rotation             |          | metal cutting                         |          | wave interaction                             |
|--------|------------------------------|----------|---------------------------------------|----------|--|
| RT     | boundary value problems      |          |                                       |          |  |
|        | counterflow                  | countin  |                                       |          | g circuits                                   |
|        | counter-rotating wheels      | RT       | counters                              | GS       | circuits                                     |
|        | rotating disks               |          | data acquisition                      |          | coupling circuits                            |
|        | rotating fluids              |          | enumeration                           |          | couplers                                     |
|        |                              |          | estimating                            |          | coupling circuits                            |
| counte | rbalances                    |          | measurement                           | RT       | antenna couplers                             |
| RT     | aircraft stability           | 00       | numbers                               |          | couples                                      |
|        | ballast (mass)               |          | observation                           |          | cross coupling                               |
|        | dynamic stability            |          | repetition                            |          | energy transfer                              |
|        | mass distribution            |          | sampling                              |          | impedance matching                           |
|        | spacecraft stability         |          |                                       |          | microwave coupling                           |
|        | static stability             | countin  | g circuits                            |          | RC circuits                                  |
|        | •                            | GS       | circuits                              |          | RL circuits                                  |
| counte | rflow                        |          | . counting circuits                   |          | transformers                                 |
| GS     | fluid flow                   |          | scalers                               |          |  |
| -      | . counterflow                | RT       | anticoincidence detectors             |          | g coefficients                               |
| RT     | axial flow                   |          | counters                              | GS       | coefficients                                 |
|        | counter rotation             |          | logic circuits                        |          | . coupling coefficients                      |
|        | heat exchangers              |          |                                       | RT       | form factors                                 |
|        | heat transfer                | countin  | g rate computers                      |          | magnetic induction                           |
|        | trapped vortices             | GS       | data processing equipment             |          | transfer functions                           |
|        | turbulent diffusion          |          | . computers                           |          |  |
|        | turbulent flow               |          | counting rate computers               | couplin  |  |
|        | vortices                     |          |                                       |          | Devices or contrivances for joining ac       |
|        | V0111000                     | coupled  | I modes                               |          | ends or parts of anything. Devices pe        |
|        |                              | DEF      | Modes of vibration that are not inde- | 0        | transfer of energy from one electrical       |
|        | insurgency aircraft          | pendent  | , but which influence one mode to the |          | another, or from one mechanical device       |
| USE    | COIN aircraft                | other. U | sed for mode coupling.                | to anoth |  |
|        |                              | UF       | mode coupling                         | RT       | anchors (fasteners)                          |
| counte | rmeasures                    | GS       | modes                                 |          | bolts  |
| GS     | countermeasures              |          | . coupled modes                       |          | clips  |
|        | . ballistic missile decoys   | RT       | chemical bonds                        |          | closures                                     |
|        | . electronic countermeasures |          | couples                               |          | connectors                                   |
|        | antiradar coatings           |          | couplings                             |          | coupled modes                                |
|        | chaff                        |          | crosslinking                          |          | couplers                                     |
|        | . jamming                    |          | laser arrays                          |          | coupling                                     |
|        | . optical countermeasures    |          | magnetosphere-ionosphere coupling     |          | directional couplers                         |
|        | . reentry decoys             |          | polymerization                        |          | fasteners                                    |
|        | . stealth technology         |          | strongly coupled plasmas              |          | fittings                                     |
| RT     | antiradiation missiles       |          | uncoupled modes                       | ۰        | joining                                      |
|        | Blue Goose missile           |          | anodapida modeo                       |          | joints (junctions)                           |
|        | decoys                       | coupler  | 9                                     |          | linkages                                     |
|        | protection                   | SN       | (EXCLUDES MECHANICAL DEVICE)          |          | mechanical drives                            |
|        | quail missile                | GS       | couplers                              |          | pins   |
|        | radar absorbers              |          | . antenna couplers                    |          | rivets                                       |
|        | target masking               |          | diplexers                             |          | screws                                       |
|        | torpedoes                    |          | directional couplers                  |          | sleeves                                      |
|        | torpodoco                    |          | . coupling circuits                   |          | splines                                      |
|        |                              | RT       | antenna components                    |          | trailers                                     |
|        | r-rotating wheels            | 111      | coupling                              |          | unions (connectors)                          |
| UF     | inertia wheels               |          | couplings                             |          | unions (connectors)                          |
| GS     | wheels                       |          | impedance matching                    | Courier  | aircraft                                     |
|        | counter-rotating wheels      |          | yokes                                 |          | U-10 aircraft                                |
| RT     | counter rotation             |          | yokes                                 | OOL      | o ro anoran                                  |
|        | flywheels                    |          |                                       | Courier  | satellite                                    |
|        | gears                        | couples  |                                       |          | artificial satellites                        |
|        | mechanical drives            | RT       | antenna couplers                      | 00       | . Courier satellite                          |
|        | reaction wheels              |          | coupled modes                         | RT       | Advent Project                               |
|        |                              |          | coupling circuits                     | IXI      | Advent i Toject                              |
| counte | rs                           |          | cross coupling                        | courses  | •  |
| UF     | dekatrons                    |          | diplexers                             |          | paths  |
|        | gas discharge counters       |          | optical coupling                      | USL      | padio  |
|        | pulse recorders              |          | spin-spin coupling                    | covaler  | nce.   |
|        | quantizer                    |          | uncoupled modes                       | RT       | chemical bonds                               |
| GS     | measuring instruments        |          | yokes                                 | 131      | covalent bonds                               |
|        | . counters                   |          |                                       |          | COVAICHT DONGS                               |
|        | radiation counters           | couplin  |                                       | covaler  | nt bonds                                     |
|        | Cerenkov counters            | SN       | (FOR MECHANICAL DEVICES, USE          | GS       | chemical bonds                               |
|        | electron counters            | GS       | COUPLINGS) coupling                   | 65       | . covalent bonds                             |
|        | Geiger counters              | 00       | . acoustic coupling                   | RT       | covalence                                    |
|        | neutron counters             |          | . cross coupling                      | IXI      | covalence                                    |
|        | neutron spectrometers        |          | . electromagnetic coupling            | covaria  | nco  |
|        | particle telescopes          |          | microwave coupling                    | GS       | statistical analysis                         |
|        | proportional counters        |          | optical coupling                      | 00       | . variance (statistics)                      |
|        | quantum counters             |          | . gyroscopic coupling                 |          | ,  |
|        | scintillation counters       |          | . magnetosphere-ionosphere coupling   |          | multivariate statistical analysis covariance |
|        | spark chambers               |          |                                       | RT       | correlation                                  |
| RT     | accumulators (computers)     |          | . spin-spin coupling                  | KI       |  |
|        | computer components          | DT       | . thermodynamic coupling              |          | experiment design                            |
|        | counting                     | RT       | antenna couplers                      |          | factor analysis                              |
|        | counting circuits            |          | Clebsch-Gordan coefficients           |          | orthogonality                                |
|        | data recorders               |          | couplers                              |          | quality control                              |
|        | ionization chambers          |          | couplings                             |          | regression analysis                          |
|        | monitors                     |          | decoupling                            |          | significance                                 |
|        |                              |          | directional couplers                  |          | variability                                  |
|        | recording instruments        |          | linkages                              |          |  |
|        |                              |          | mechanical drives                     | coveral  |  |
|        | rsinking                     |          | Racah coefficient                     | GS       | clothing                                     |
| RT     | grinding (material removal)  |          | velocity coupling                     |          | . coveralls                                  |

| RT  | flight clothing  | RT  | ceramic matrix composites  | RT                  | acoustic emission  |
|---|--|---|--|---------------------|--|
|   | protective clothing  |   | crack opening displacement   |                     | bend tests   |
|   |  |   | crack propagation  |                     | brittleness  |
| coverin<br>RT   | camouflage   |   | fiber composites<br>fracture mechanics   |                     | Coffin-Manson law crack arrest   |
|   | camounage<br>caps  |   | metal matrix composites  |                     | crack bridging   |
|   | casing   |   | motal matrix compositos  |                     | crack opening displacement   |
|   | closures   | crack c   | losure   |                     | crack tips   |
|   | coatings   |   | Phenomenon which occurs when the   |                     | cracking (fracturing)  |
|   | electrostatic bonding  |   | lasticity of a material gives rise to the  |                     | cracks   |
|   | enclosures   |   | ment of residual plastic deformations in   |                     | fatigue (materials)  |
| 0   | ∘ envelopes<br>guards (shields)  |   | nity of a crack tip, causing the fatigue close at positive load.   |                     | fracture machanics   |
|   | housings   | RT  | brittleness  |                     | fracture mechanics fracture strength   |
|   | jackets  |   | cracking (fracturing)  |                     | fracturing   |
|   | masking  |   | cracks   |                     | Griffith crack   |
|   | netting (materials/structures)   |   | Elber equation   |                     | J integral   |
|   | preserving   |   | fatigue (materials)  |                     | metal fatigue  |
|   | sealing  |   | fractography   |                     | micromechanics   |
|   | shells (structural forms)  |   | fracture mechanics   |                     | plane strain   |
|   | shrouds  |   | fracture strength  | ~                   | propagation  |
|   | spherical caps   |   | fracturing Griffith crack  |                     | residual strength<br>resistance  |
| coves   |  |   | metal fatigue  |                     | Segre characteristic   |
| USE   | bays (topographic features)  |   | microcracks  |                     | short cracks   |
|   | , , , , ,  |   | stress corrosion cracking  |                     | strain distribution  |
| Cowell  |  |   | surface cracks   |                     | stress corrosion cracking  |
| USE   | numerical integration  |   |  |                     | stress distribution  |
|   |  | crack fo  |  |                     | stress intensity factors   |
| cowling   |  | USE   | crack initiation   |                     | surface cracks   |
| GS  | housings<br>. cowlings   | crack o   | oomotry  | orook ti            | no   |
| RT  | air intakes  |   | eometry  The shape and size of partial fractures   | crack ti<br>DEF     | The boundaries between cracked and   |
| 111   | fairings   |   | in materials.  |                     | ed material.   |
|   | nacelles   | GS  | geometry   |                     | fractures (materials)  |
|   | pods (external stores)   |   | . crack geometry   |                     | . cracks   |
|   | protuberances  | RT  | cavities   |                     | crack tips   |
|   | shells (structural forms)  |   | crack tips   |                     | tips   |
| CD vial   | ation  |   | cracks   |                     | . crack tips   |
| CP viol   | ed April 2002)   |   | fatigue (materials)  | RT                  | crack arrest   |
|   | Violation of the combined conservation   |   | fractography<br>microcracks  |                     | crack geometry   |
|   | sociated with charge conjugation (C) and   |   | short cracks   |                     | crack initiation<br>crack propagation  |
|   | nversion (P, parity) by the weak nuclear   |   | surface cracks   |                     | orack propagation  |
| force. A  | symmetry violation thought to be re-   |   | voids  | crackin             | g (chemical engineering)   |
|   | le for the excess of matter over antimat-  |   |  | DEF                 | A process used to reduce the molecu-   |
|   | e Universe.  |   | nitiation  |                     | ht of hydrocarbons by breaking molecu-   |
| GS  | symmetry   | UF  | crack formation  |                     | s by thermal, catalytic, or hydrocracking  |
|   | . broken symmetry  | RT  | brittleness  |                     | S.   |
|   | CD violeties   | IXI   |  | methods             |  |
| рт  | CP violation   | KI  | crack arrest   | GS                  | chemical reactions   |
| RT  | conservation laws  | KI  | crack arrest crack tips  |                     | chemical reactions . cracking (chemical engineering)   |
| RT  | conservation laws parity   | KI  | crack arrest<br>crack tips<br>cracks   |                     | chemical reactions . cracking (chemical engineering) hydrocracking   |
| RT  | conservation laws<br>parity<br>particle decay  | KI  | crack arrest<br>crack tips<br>cracks<br>critical loading   |                     | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis   |
| RT  | conservation laws parity   | KI  | crack arrest<br>crack tips<br>cracks   |                     | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition   |
|   | conservation laws<br>parity<br>particle decay<br>standard model (particle physics)<br>weak interactions (field theory)   | KI  | crack arrest<br>crack tips<br>cracks<br>critical loading<br>fracture mechanics   |                     | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis   |
| CPL (he   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer)   | KI  | crack arrest<br>crack tips<br>cracks<br>critical loading<br>fracture mechanics<br>fracture strength  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering)   |
| CPL (he<br>(adde  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003)   | KI  | crack arrest crack tips cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces   |                     | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis   |
| CPL (he<br>(adde  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer)   | NI  | crack arrest crack tips cracks cracking cracking cracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis   |
| CPL (he<br>(adde<br>USE   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer) ed September 2003) capillary pumped loops   | NI  | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks   | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity  |
| CPL (he<br>(adde<br>USE   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  | NI  | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering   |
| CPL (he<br>(adde<br>USE   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer) ed September 2003) capillary pumped loops   | N   | crack arrest crack tips cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking   | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification   |
| CPL (he<br>(adde<br>USE   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies  | N   | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis  |
| CPL (he<br>(adde<br>USE   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae  | N   | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors   | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification   |
| CPL (he<br>(adde<br>USE<br>Crab ne<br>GS  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer) ed September 2003) capillary pumped loops ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae  | N   | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons   |
| CPL (he<br>(adde<br>USE<br>Crab ne<br>GS  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula   |   | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrolysis nitrolysis  |
| CPL (he (adde USE  Crab ne GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer) ed September 2003) capillary pumped loops ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae  | crack o   | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement   | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrogenolysis hydrogenolysis nitrolysis organic chemistry   |
| CPL (he (adde USE) Crab ne GS RT  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) eat September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  | crack o<br>(add                                       | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement and September 1988)  | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrolysis nitrolysis organic chemistry photolysis   |
| CPL (he (adde USE  Crab ne GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals  | <b>crack o</b><br>( <i>add</i><br>DEF                 | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a   | GS                  | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrogenolysis hydrogenolysis nitrolysis organic chemistry   |
| CPL (he (adde USE) Crab ne GS RT  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer) ed September 2003) capillary pumped loops ebula celestial bodies . nebulae Orion nebula Supernovae Taurus constellation  animals . invertebrates  | <b>crack o</b><br>(add<br>DEF<br>crack in             | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness pening displacement at the mouth of a a material. Used for COD (cracks).  | GS<br>RT            | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis nitrolysis organic chemistry photolysis thermal dissociation   |
| CPL (he (adde USE) Crab ne GS RT  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods   | crack o<br>(add<br>DEF<br>crack in<br>UF              | crack arrest crack tips cracks cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness pening displacement and September 1988)  The displacement at the mouth of a a material. Used for COD (cracks).  COD (cracks)  | GS<br>RT<br>crackin | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis nitrolysis organic chemistry photolysis thermal dissociation g (fracturing)   |
| CPL (he (adde USE) Crab ne GS RT  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) eat transfer) ed September 2003) capillary pumped loops ebula celestial bodies . nebulae Orion nebula Supernovae Taurus constellation  animals . invertebrates  | crack o<br>(add<br>DEF<br>crack in<br>UF              | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness pening displacement at the mouth of a a material. Used for COD (cracks).  | GS<br>RT<br>crackin | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis nitrolysis organic chemistry photolysis thermal dissociation   |
| CPL (he (adde USE) Crab ne GS RT crabs GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest  | crack o<br>(add<br>DEF<br>crack in<br>UF              | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks).  COD (cracks) displacement  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrogenolysis introlysis organic chemistry photolysis thermal dissociation  g (fracturing) cracking (fracturing) . stress corrosion cracking   |
| CPL (he (adde USE) Crab ne GS RT crabs GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation   | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement . crack opening displacement crack bridging crack propagation  | GS<br>RT<br>crackin | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis nitrolysis organic chemistry photolysis thermal dissociation g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials  |
| CPL (he (adde USE) Crab ne GS RT crabs GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  at transfer) ad September 2003) capillary pumped loops  abula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation crack propagation  | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks tips cracks (souther crack) crack (souther | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness  |
| CPL (he (adde USE) Crab ne GS RT crabs GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) eat september 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods . crabs  rrest crack initiation crack propagation crack tips   | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ad September 1988) The displacement at the mouth of a a material. Used for COD (cracks).  COD (cracks) displacement . crack opening displacement crack propagation cracking (fracturing) cracks  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittleness crack arrest   |
| CPL (he (adde USE) Crab ne GS RT crabs GS   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  at transfer) ad September 2003) capillary pumped loops  abula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation crack propagation  | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack arrest crack closure  |
| CPL (he (adde USE) Crab ne GS RT  crabs GS  crack a   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988)  The displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement . crack opening displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength   | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrocarbons hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . stress corrosion cracking brittle materials brittleness crack arrest crack opening displacement   |
| CPL (he (adde USE) Crab ne GS RT  Crabs GS  Crack a RT  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength fractures (materials)   | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack arrest crack closure  |
| CPL (he (adde USE) Crab ne GS RT  Crabs GS  Crack a RT  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  at transfer) ad September 2003) capillary pumped loops  abula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging  | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ad September 1988) The displacement at the mouth of a a material. Used for COD (cracks).  COD (cracks) displacement . crack opening displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fractures (materials) fracturing   | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis nitrolysis organic chemistry photolysis thermal dissociation g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack closure crack opening displacement crack propagation   |
| CPL (he (adde USE) Crab ne GS RT  Crabs GS  Crack a RT  Crack b (adde DEF)  | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  at transfer) ad September 2003) capillary pumped loops  abula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates . arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging ad March 1995)   | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength fractures (materials)   | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrogenic chemistry photolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack closure crack opening displacement crack propagation cracks  |
| CPL (he (adde USE) Crab ne GS RT  Crabs GS  Crack a RT  Crack b (adde DEF grains of the surface)                    | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging ed March 1995) The occurence of unbroken material or reinforcing elements extending across acces of a crack. A common occurrence in   | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement . crack opening displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength fractures (materials) fracturing gaps  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis nitrolysis organic chemistry photolysis thermal dissociation g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack closure crack opening displacement crack propagation cracks destruction edge cracks failure  |
| CPL (he (adde USE) Crab ne GS RT  Crabs GS  crack a RT  crack b (adde DEF) grains of the surfifiber coil            | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) at transfer) and September 2003) capillary pumped loops abula celestial bodies rebulae Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging and March 1995)  The occurence of unbroken material or reinforcing elements extending across aces of a crack. A common occurrence in imposites and some ceramic materials, it                                       | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS        | crack arrest crack tips cracks cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture (materials) fracturing gaps notch tests  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack closure crack opening displacement crack propagation cracks destruction edge cracks failure fatigue (materials)                        |
| CPL (he (adde USE) Crab ne GS  RT  Crabs GS  crack a RT  Crack b (adde DEF) grains of the surfatiber con contribu   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory)  eat transfer) ed September 2003) capillary pumped loops  ebula celestial bodies . nebulae . Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging ed March 1995) The occurence of unbroken material or reinforcing elements extending across acces of a crack. A common occurrence in   | crack o<br>(addo<br>DEF<br>crack in<br>UF<br>GS<br>RT | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks).  COD (cracks) displacement . crack opening displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength fractures (materials) fracturing gaps notch tests notches voids  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack arrest crack opening displacement cracks destruction edge cracks faillure fatigue (materials) J integral                              |
| CPL (he (adde USE) Crab ne GS RT  Crabs GS  Crack a RT  Crack b (adde DEF grains of the surfofiber contribut tance. | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) at transfer) and September 2003) capillary pumped loops abula celestial bodies . nebulae Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging and March 1995)  The occurence of unbroken material or reinforcing elements extending across acces of a crack. A common occurrence in mposites and some ceramic materials, it tes to improved crack growth resis- | crack o<br>(add<br>DEF<br>crack in<br>UF<br>GS<br>RT  | crack arrest crack tips cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks). COD (cracks) displacement crack opening displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength fracturing gaps notch tests notches voids  ropagation  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrocarbons hydrogenolysis hydrolysis nitrolysis organic chemistry photolysis thermal dissociation  g (fracturing) . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack arrest crack closure crack opening displacement cracks destruction edge cracks failure fatigue (materials) J integral kinking |
| CPL (he (adde USE) Crab ne GS  RT  Crabs GS  crack a RT  Crack b (adde DEF) grains of the surfatiber con contribu   | conservation laws parity particle decay standard model (particle physics) weak interactions (field theory) at transfer) and September 2003) capillary pumped loops abula celestial bodies rebulae Crab nebula Orion nebula supernovae Taurus constellation  animals . invertebrates arthropods crabs  rrest crack initiation crack propagation crack tips cracking (fracturing)  ridging and March 1995)  The occurence of unbroken material or reinforcing elements extending across aces of a crack. A common occurrence in imposites and some ceramic materials, it                                       | crack o<br>(addo<br>DEF<br>crack in<br>UF<br>GS<br>RT | crack arrest crack tips cracks cracks cracks critical loading fracture mechanics fracture strength J integral metal fatigue metal surfaces microcracks short cracks stress concentration stress corrosion cracking stress intensity factors surface cracks surface defects toughness  pening displacement ed September 1988) The displacement at the mouth of a a material. Used for COD (cracks).  COD (cracks) displacement . crack opening displacement crack bridging crack propagation cracking (fracturing) cracks fracture mechanics fracture strength fractures (materials) fracturing gaps notch tests notches voids  | RT<br>crackin<br>GS | chemical reactions . cracking (chemical engineering) . hydrocracking . pyrolysis decomposition . cracking (chemical engineering) . hydrocracking . pyrolysis ammonolysis catalysis catalytic activity chemical engineering coal gasification electrolysis hydrocarbons hydrogenolysis hydrogenolysis hydrolysis organic chemistry photolysis thermal dissociation  g (fracturing) fracturing . cracking (fracturing) . stress corrosion cracking brittle materials brittleness crack arrest crack opening displacement cracks destruction edge cracks faillure fatigue (materials) J integral                              |

|            | stress corrosion   |               | method which avoids the need for using         |                | Ptolemaeus Crater  |
|------------|--|---------------|--|----------------|--|
|            | stress intensity factors   | very sm<br>RT | nall time steps.                               |                | Tycho crater   |
|            | structural failure<br>structural strain  | KI            | boundary value problems differential equations |                | . meteorite craters . planetary craters  |
|            | temperature inversions   |               | finite difference theory                       |                | Mars craters   |
|            |  |               | finite element method                          | RT             | asteroid collisions  |
| cracks     |  |               | numerical analysis                             |                | calderas   |
| UF         | crevices   |               | problem solving                                |                | cometary collisions  |
| GS         | fractures (materials)  | cranks        |  |                | cones (volcanoes) cratering  |
|            | . cracks   | USE           | eccentrics                                     |                | ejecta   |
|            | edge cracks  | 332           |  |                | impact damage  |
|            | microcracks  | crash i       | njuries  |                | satellite surfaces   |
|            | short cracks   | GS            | ,  |                |  |
|            | surface cracks   | RT            | . crash injuries accidents                     | cratons<br>RT  | continents   |
| RT         | cavities   | KI            | burns (injuries)                               | KI             | Earth crust  |
|            | crack closure<br>crack geometry  |               | hazards  |                | Earth surface  |
|            | crack initiation   |               | whiplash injuries                              |                | ocean bottom   |
|            | crack opening displacement   |               |  |                |  |
|            | crack propagation  | crash I       |  |                | tractors   |
|            | cracking (fracturing)  | GS            | crashes . crash landing                        | GS             | surface vehicles<br>. motor vehicles   |
|            | defects  |               | ditching (landing)                             |                | tractors   |
|            | Elber equation failure modes   | RT            | aircraft accidents                             |                | crawler tractors   |
|            | fatigue (materials)  |               | aircraft hazards                               | RT             | electric motor vehicles  |
|            | interstices  |               | aircraft safety                                |                | ground support equipment   |
|            | leakage  |               | aircraft spin                                  |                | handling equipment   |
|            | openings   |               | arresting gear                                 |                | lunar surface vehicles   |
|            | stresses   |               | crashworthiness                                |                | manned lunar surface vehicles tracked vehicles                                   |
|            | temperature inversions   |               | emergency landing flight hazards               | 0              | transport vehicles   |
|            | ultrasonic spectroscopy  |               | glide landings                                 |                | ∘ vehicles   |
| CRAF n     | nission  |               | hard landing                                   |                |  |
| USE        | Comet Rendezvous Asteroid Flyby  |               | horizontal spacecraft landing                  |                | omputers   |
|            | Mission  |               | lunar landing                                  |                | Supercomputers built by Cray R   |
|            |  |               | pilot error                                    |                | Inc. that require the supporting service<br>ner front-end general purpose comput |
| craft      |  |               | planetary landing                              |                | ration. They incorporate very fast scal  |
| USE        | vehicles   |               | skid landings<br>soft landing                  |                | ctor hardware, are used primarily for the  |
| 0          | Dec bernde   |               | spacecraft landing                             |                | on of physical phenomena, and are pr   |
|            | -Rao bounds  |               | water landing                                  |                | ed in FORTRAN.   |
| GS         | ed June 1997)<br>analysis (mathematics)  |               | -  | GS             | data processing equipment  |
| 00         | . real variables   | crashe        |  |                | . computers  |
|            | extremum values  | GS            | crashes  |                | supercomputers Cray computers  |
|            | minima   |               | . crash landing ditching (landing)             |                | Cray computers   |
|            | Cramer-Rao bounds  | RT            | accidents                                      | crayons        | s  |
| RT         | Fisher information   |               | air bag restraint devices                      | RT ∘           | ∞ markers  |
|            | maximum likelihood estimates   |               | aircraft accidents                             |                | temperature measurement  |
|            | variance (statistics)  |               | aircraft hazards                               | oro-in-a       |  |
| cramps     |  |               | aircraft safety                                | crazing<br>USE | surface cracks   |
| RT         | epilepsy   |               | collisions                                     | OOL            | Surface cracks   |
|            | muscular function  |               | crashworthiness                                | creating       | e  |
|            | seizures   |               | encounters<br>flight hazards                   | GS             | crystals   |
|            |  |               | flight safety                                  |                | . creatine   |
| cranes     |  |               | highways                                       | RT             | juices   |
| SN         | (EXCLUDES BIRDS)   |               | midair collisions                              | creatini       | ine  |
| GS         | handling equipment . cranes  |               | pilot error                                    | RT             | diseases   |
|            | . gantry cranes  |               | runway incursions                              | IXI            | urine  |
| RT         | booms (equipment)  |               | safety   |                |  |
|            | conveyors  |               | wreckage                                       | creation       | 1  |
| ۰          | lifts  | crashw        | vorthiness                                     | USE            | creativity   |
|            | logistics  | DEF           | The ability of a vehicle to withstand a        | creativi       | itv  |
|            | materials handling   | crash.        | ,  | UF             | creation   |
|            | towers<br>winches  | RT            | aircraft accidents                             | RT             | arts   |
|            | WITCHES  |               | aircraft landing                               |                | education  |
| craniun    | 1  |               | aircraft safety                                |                | morale   |
| GS         | anatomy  |               | crash landing                                  |                | ab.ala   |
|            | . head (anatomy)   |               | crashes<br>flight safety                       | •              | ınalysis   |
|            | skull  |               | impact resistance                              | KI °           | ∞ analyzing<br>stress analysis   |
|            | cranium  |               | impact resistance                              |                | stress relaxation  |
|            | intracranial cavity  | craterir      | ng   |                | structural analysis  |
|            | . musculoskeletal system   | GS            | cratering                                      |                | ,  |
|            | bones<br>skull   |               | . projectile cratering                         |                | puckling   |
|            | cranium  | RT            | craters  | GS             | buckling   |
|            | intracranial cavity  |               | ejecta<br>impact damage                        |                | . creep buckling   |
| RT         | intercranial circulation   |               | impact damage<br>Mars craters                  | creen          | liagrams   |
|            | mastoids   |               | meteorite craters                              |                | diagrams   |
|            |  |               | meteoritic damage                              |                | . creep diagrams   |
| cranked    | •  |               | nuclear explosions                             | RT             | stress relaxation  |
| USE        | swept wings  |               |  |                | stress-strain-time relations   |
|            | Patrata and A  | craters       |  |                |  |
|            | Vicholson method   | UF            | maars  |                | properties   |
|            | A method for solving parabolic partial ial equations, whose main feature is an | GS            | craters . lunar craters                        | GS             | mechanical properties . creep properties   |
| unici etti | iai oquationo, wilose main leature is all                                      |               | . Idriai Giators                               |                | . Group properties   |

|                  | creep rupture strength  |          | Mesozoic Era  | ~        | tests  |
|------------------|---|----------|---|----------|--|
|                  | shear creep   |          | paleobiology  |          |  |
|                  | steady state creep  |          | paleontology  | crew pr  | ocedures (preflight)                                   |
|                  | tensile creep   |          | Tertiary Period   | DEF      | Operations performed by crews                          |
| RT               | anelasticity  |          |   | aboard   | aircraft or spacecraft and by ground                   |
|                  | deformation   | crevass  | ses   | support  | crews before flight or launching.                      |
|                  | dimensional stability   | GS       | crevasses   | GS       | procedures   |
|                  | ductility   |          | . glaciers  |          | . crew procedures (preflight)                          |
|                  | fatigue (materials)   | RT       | Earth movements   | RT       | countdown  |
| ~                | flow  |          | geological faults                                       |          | display devices  |
|                  | plastic deformation   |          | recesses  |          | flight crews   |
|                  | plastic flow  |          | seamounts   |          | flight operations                                      |
| 00               | properties  |          |   |          | ground handling  |
|                  | residual stress   | crevices | 3   |          | ground tests   |
|                  | shear flow  | USE      | cracks  |          | in-flight monitoring                                   |
|                  | shear properties  |          |   |          | onboard equipment                                      |
|                  | static deformation  | Crew E   | quipment Translation Aid (ISS)                          |          | preflight operations                                   |
|                  | stress relaxation   |          | ed December 2002)                                       |          | prelaunch tests  |
|                  | stresses<br>structural failure                                  |          | A human powered cart used by astro-                     |          | spacecraft control                                     |
|                  | superplasticity   | nauts to | conduct extravehicular-activity (EVA)                   |          | spacecrews<br>tasks                                    |
|                  | temperature inversions  | mainten  | ance on the International Space Station                 | ~        | tests  |
|                  | temperature inversions  | (ISS).   | •   | •        | 16515  |
| creep re         | esistance   | UF       | CETA cart (ISS)   | crew siz | 70   |
|                  | creep strength  | GS       | carts   | DEF      | The number of people in a crew.                        |
|                  | <b>-</b>  |          | . Crew Equipment Translation Aid                        | RT       | flight crews   |
| creep r          | upture strength   |          | (ISS)   | 101      | ingrit crews   |
| UF               | stress rupture strength   | RT       | astronaut maneuvering equipment                         | crew sta | ations   |
| GS               | mechanical properties   |          | extravehicular activity                                 | USE      | crew workstations                                      |
|                  | . creep properties  |          | extravehicular mobility units                           | USL      | U. O.A. WOLKSLAUIOLIS                                  |
|                  | creep rupture strength  |          | International Space Station                             | crew w   | orkstations  |
| RT               | fracture strength   |          | orbital assembly  | UF       | crew stations  |
|                  | J integral  |          |   | GS       | stations   |
| ~                | strength  | crew ex  | periment stations                                       | 00       | . workstations   |
|                  |   | GS       | stations  |          | crew workstations                                      |
| creep s          |   |          | . workstations  |          | crew experiment stations                               |
|                  | The constant nominal stress that will                           |          | crew workstations                                       |          | crew observation stations                              |
|                  | specified quantity of creep in a given                          |          | crew experiment stations                                | RT       | astronauts   |
|                  | constant temperature. Used for creep                            | RT       | astronauts  |          | compartments   |
| resistan         |   |          | compartments  |          | cosmonauts   |
| UF               | creep resistance  |          | cosmonauts  |          | crews  |
| GS               | mechanical properties   |          | crews   |          | helmet mounted displays                                |
| RT               | . creep strength load carrying capacity                         |          | personnel   |          | personnel  |
|                  | resistance  |          | spacecraft cabins                                       |          | spacecraft cabins                                      |
|                  | strength  |          | spacecrews  |          | spacecrews   |
| 00               | strengtri   |          |   |          |  |
| creep to         | ests  |          | xploration Vehicle                                      | crews    |  |
| RT               | compression tests   |          | ed July 2005)   | GS       | personnel  |
| 111              | fatigue tests   | UF       | Orion crew vehicle                                      |          | . crews  |
|                  | load tests  | GS       | lunar spacecraft  |          | flight crews   |
|                  | plastic deformation   |          | Crew Exploration Vehicle                                |          | spacecrews   |
|                  | static tests  |          | manned spacecraft                                       | RT       | astronauts   |
| ~                | tests   | DT       | . Crew Exploration Vehicle                              |          | cosmonauts   |
|                  |   | RT       | Ares 1 launch vehicle                                   |          | crew experiment stations                               |
| crepe            |   |          | Ares 1 upper stage                                      |          | crew observation stations                              |
| ĞS               | fabrics   |          | Constellation program long duration space flight        |          | crew workstations                                      |
|                  | . crepe   |          | lunar exploration                                       |          | flight nurses  |
| RT               | cotton fibers   |          | manned Mars missions                                    |          | pilots (personnel)                                     |
|                  | silk  |          | manned space flight                                     | !-!      |  |
|                  |   |          | Mars exploration  | crickets |  |
| cresols          |   |          | Ware exploration  | GS       | animals  |
| GS               | hydroxyl compounds  | Crow of  | oservation stations                                     |          | . invertebrates arthropods                             |
|                  | . alcohols  | GS       | stations  |          | insects  |
|                  | phenols   | 55       | . workstations  |          | crickets   |
|                  | cresols   |          | crew workstations                                       |          | Griokoto   |
| oroototr         | 200   |          | crew observation stations                               | crime    |  |
| crestatro<br>USE | traveling wave tubes  | RT       | astronauts  | GS       | crime  |
| USE              | travelling wave tubes   |          | compartments  | 00       | . air piracy   |
| crocto           |   |          | cosmonauts  |          | . terrorism  |
| crests<br>USE    | waves   |          | crews   | RT       | law (jurisprudence)                                    |
| UUL              | waves   |          | personnel   |          | police   |
| Crotaco          | ous Period  |          | spacecraft cabins                                       |          | regulations  |
|                  | ed June 1989)   |          | spacecrews  |          | security   |
|                  | Mesozoic Era  |          | •   |          | social factors   |
|                  | . Cretaceous Period   | crew pi  | ocedures (inflight)                                     |          | surveillance   |
| RT               | Cretaceous-Tertiary boundary                                    | DEF      |   |          | violence   |
|                  | geochronology   |          | aircraft or spacecraft during flight. In-               |          |  |
|                  | paleontology  |          | light operations as well as spaceborne                  | crimping | 1  |
|                  | Tertiary Period   |          | ent procedures.   |          | folding  |
|                  | •   |          | flight operations                                       |          |  |
| Cretace          | ous-Tertiary boundary   |          | . crew procedures (inflight)                            | criteria |  |
|                  |   |          | procedures  | DEF      | The minimum standards or limits on                     |
|                  | ed June 1989)   |          |   | which in | dgments may be based.                                  |
| Oi               | ed June 1969)<br>K-T boundary                                   |          | . crew procedures (inflight)                            |          |  |
| RT               |   | RT       | . crew procedures (inflight)<br>display devices         |          | criteria   |
|                  | K-T boundary Cenozoic Era cometary collisions                   | RT       | display devices<br>flight crews                         | GS       |  |
|                  | K-T boundary Cenozoic Era cometary collisions Cretaceous Period | RT       | display devices<br>flight crews<br>in-flight monitoring |          | criteria<br>. structural design criteria<br>evaluation |
|                  | K-T boundary Cenozoic Era cometary collisions                   | RT       | display devices<br>flight crews                         | GS RT    | criteria<br>structural design criteria                 |

standards

#### critical current

(added December 1999)

DEF A current value in a superconductive material, at a particular constant temperature and in the absence of a magnetic field, below which the material is superconducting and above which the material behaves normally.

electric current GS . critical current critical temperature current density superconductivity superconductors (materials)

## critical experiments

experimentation nuclear fission nuclear reactions

#### critical flicker fusion

flicker fusion frequency perception sensory perception .. visual perception critical flicker fusion

afterimages

flicker

#### critical flow

fluid flow GS critical flow

flow characteristics gas flow laminar flow liquid flow multiphase flow orifice flow pipe flow pressure gradients Ringleb flow single-phase flow steady flow steam flow subcritical flow supercritical flow turbulent flow

unsteady flow

## critical frequencies

The limiting frequencies below which magnetoionic wave components are reflected and above which they penetrate through, an ionized medium (plasma) at vertical incidence.

GS frequencies

critical frequencies light (visible radiation) resonant frequencies

## critical loading

(LIMITED TO FORCE LOADS)

ŪF critical stress

GS loads (forces)

critical loading

. critical loading

aerodynamic loads crack initiation dynamic loads load carrying capacity proportional limit shallow shells static loads

critical Mach number USE critical velocity Mach number

### critical mass

RT

DEF The amount of concentrated fissionable material that can just support a selfsustaining fission reaction.

GS mass

. critical mass

nuclear fission nuclear fuel burnup nuclear reactions plasma core reactors subcritical mass

### critical path method

network analysis

. critical path method

RT ∞ control

dynamic programming estimating

**GERT** 

management methods

methodology mission planning

operations research

paths

PERT planning

program trend line analysis programming (scheduling)

project management research

sequencing

sneak circuit analysis systems engineering

#### critical point

The thermodynamic state in which liquid and gas phases of a substance coexist in equilibrium at the highest possible temperature. At higher temperature than the critical no liquid phase can exist.

GS thermodynamic properties
thermophysical properties
critical point

RT Mayer problem

critical pressure

DEF In rocketry, the pressure in the nozzle throat for which the isentropic weight flow rate is maximum. The pressure of a gas at the critical point, which is the highest pressure under which a liquid can exist in equilibrium with its vapor.

ĠS pressure

# critical pressure

thermodynamic properties thermophysical properties

# critical pressure

degenerate matter high pressure liquid phases supercritical pressures vapor phases

critical Reynolds number

USE Reynolds number

critical speed

USE critical velocity

critical stress

USE critical loading

### critical temperature

DEF The temperature above which a substance cannot exist in the liquid state regardless of the pressure. As applied to reactor overheat or afterheat, the temperature at which the least resistant component of the reactor core begins to melt down. As applied to materials, the temperature at which a change in phase takes place causing an appreciable change in the properties of the material.

GS temperature

## critical temperature

thermodynamic properties

. thermophysical properties

critical temperature

critical current

cryogenic temperature

heat treatment high temperature superconductors

metallic hydrogen noncondensable gases

phase diagrams phase transformations

critical velocity

DEF In rocketry, the speed of sound at the conditions prevailing at the nozzle throat. Used for critical Mach number, critical Reynolds number, and critical speed.

UF critical Mach number critical speed rates (per time) . critical velocity

velocity critical velocity exhaust velocity resonant frequencies Reynolds number

tip speed

Croatia (added October 1994)

GS nations

. Croatia
Bosnia and Herzegovina

Europe Yugoslavia

#### Crocco method

axisymmetric flow boundary layers compressible flow compressible fluids entropy inviscid flow methodology shock wave propagation steady flow vorticity

## Crocco-Lee theory

RT boundary layer separation continuity equation gas flow inviscid flow mass flow multiphase flow reattached flow separated flow ∞ theories

## Croloy

alloys . iron alloys . . steels ... Croloy

### crop calendars

DEF Schedules for the maturation and harvesting of seasonal crops.

calendars

## . crop calendars

 $RT \, \infty \, crops$ farm crops growth scheduling seasons

### crop dusting

DEF The application of fungicides or insecticides in powder form to a crop, usually from a low flying aircraft.

GŚ

spraying
. crop dusting
aerosols agricultural aircraft agriculture dispersions farm crops pesticides powder (particles)

## crop growth

growth

. vegetation growth

. . crop growth agriculture

alfalfa barley blight citrus trees corn o crops Earth resources farm crops farmlands germination

grasslands

|         | Large Area Crop Inventory                  | RT        | agriculture  |              | planforms  |
|---------|--|-----------|--|--------------|--|
|         | Experiment                                 |           | alfalfa  |              | radar cross sections                             |
|         | oats<br>orchards                           |           | barley   |              | scattering cross sections shapes                 |
|         | photosynthesis                             |           | biomass energy production citrus trees                                       |              | stopping power                                   |
|         | photosynthetically active radiation        |           | corn   |              | surveys  |
|         | plant diseases                             |           | crop calendars   |              | two dimensional bodies                           |
|         | plant stress                               |           | crop growth  |              |  |
|         | plants (botany)                            |           | crop identification  |              | edding (geology)                                 |
|         | sugar beets                                |           | farm crops   | GS           | geology  |
|         | sugar cane                                 |           | farmlands  | RT           | . crossbedding (geology)<br>landforms            |
|         | thermal resources vineyards                |           | frost damage<br>Large Area Crop Inventory                                    | IXI          | rocks  |
|         | wheat                                      |           | Experiment   |              | strata   |
|         |  |           | orchards   |              | stratification                                   |
|         | dentification                              |           | planting   |              | stratigraphy                                     |
| GS      | , 0  |           | sorghum  |              |  |
| RT      | . crop identification agriculture          |           | sunflowers   |              | d field amplifiers                               |
|         | ∞ crops                                    |           | tomatoes   | GS           | amplifiers                                       |
|         | Earth resources                            |           | vineyards  |              | . microwave amplifiers crossed field amplifiers  |
|         | evaluation                                 |           | wheat  |              | microwave equipment                              |
|         | farmlands                                  | cross     | correlation  |              | . microwave amplifiers                           |
|         | ground truth                               | GS        | correlation  |              | crossed field amplifiers                         |
|         | imaging techniques                         |           | . cross correlation  | RT           | electron tubes                                   |
|         | leaf area index                            | RT        | autocorrelation  |              | magnetrons                                       |
|         | multispectral photography                  |           | data correlation   |              | traveling wave tubes                             |
|         | plant diseases                             |           | P  |              |  |
|         | recognition remote sensors                 |           | coupling   |              | d field guns                                     |
|         |  | GS        | coupling   |              | electron guns                                    |
|         | ∞ sensors<br>sorghum                       | RT        | . cross coupling communication theory  | c            | oguns<br>plasma control                          |
|         | spectral signatures                        | 13.1      | couples  |              | plasma guns                                      |
|         | SPOT (French satellite)                    |           | coupling circuits  |              | plasma jets                                      |
|         | sunflowers                                 |           | microwave coupling   |              | pidoma joto                                      |
|         | timber identification                      |           | optical coupling   | crosse       | d fields   |
|         | vegetative index                           |           | radio frequency interference   | RT           | electric fields                                  |
| crop i  | nventories                                 |           |  |              | field theory (physics)                           |
|         | Numerical estimates of vegetable,          | cross fa  |  |              | magnetic fields                                  |
|         | nd other commercial farm products based    | USE       | geological faults  |              | magnetrons                                       |
|         | analysis of photography or imagery from    | cross f   | low  |              | plasma control                                   |
|         | or satellites made during periodic passes  |           | A flow going across another flow, as a                                       |              | waveguides                                       |
| during  | the growth cycle.                          |           | se flow over a wing.   | crossin      | nas  |
| GS      | inventories                                | GS        | fluid flow   |              | crossings  |
|         | crop inventories                           |           | . cross flow   |              | . chiasms  |
| RT      | agriculture                                | RT        | aerodynamic characteristics  | RT           | bridges (structures)                             |
|         | AgRISTARS project                          |           | ∞ flow   |              | crossovers                                       |
|         | farm crops<br>farmlands                    |           | flow characteristics   |              | intersections                                    |
|         | Large Area Crop Inventory                  |           | flow geometry spanwise blowing   |              | pipelines  |
|         | Experiment                                 |           | water tunnel tests   |              | ramps (structures)                               |
|         | leaf area index                            |           | water turiner tests  | crossli      | nking  |
|         | remote sensors                             | cross     | oolarization   |              | crosslinking                                     |
|         | vegetative index                           |           | The component of the electric field  | 00           | . vulcanizing                                    |
| 0       |  | vector i  | normal to the desired polarization com-                                      | RT           | S .  |
|         | nventories by Remote Sensing               | ponent.   |  |              | coupled modes                                    |
| USE     | AgRISTARS project                          | GS        | polarization (waves)   |              | curing   |
| crop v  | igor                                       | DT        | . cross polarization   | c            | ∘ joining  |
| RT      | agriculture                                | RT        | optical coupling   |              | netting (materials/structures)                   |
|         | alfalfa                                    |           | optical properties polarized electromagnetic radiation                       |              | phenolic epoxy resins                            |
|         | barley                                     |           | polarons   |              |  |
|         | blight                                     |           | rotation   | crosso<br>RT | vers<br>bridges (structures)                     |
|         | citrus trees<br>farm crops                 |           |  | KI           | crossings  |
|         | farmlands                                  | cross r   | elaxation  |              | intersections                                    |
|         | genetically modified plants                | RT        | masers   |              | morodono   |
|         | irrigation                                 |           | ∞ relaxation   | crossta      | ılk  |
|         | normalized difference vegetation           |           | rutile   | DEF          | Electrical disturbances in a commur              |
|         | index                                      |           | spin-spin coupling   | cation o     | hannel as a result of coupling with other        |
|         | oats                                       | ∞ cross   | costions   | commu        | nication channels.                               |
|         | orchards                                   | ∞ cross : | (USE OF A MORE SPECIFIC TERM IS  | GS           | electromagnetic interference                     |
|         | phototropism                               | 011       | RECOMMENDEDCONSULT THE TERMS   |              | crosstalk  |
|         | plant diseases                             | DEF       | LISTED BELOW)  | DT           | ionospheric cross modulation                     |
|         | plant stress                               |           | Measures of the effectiveness of par-<br>processes expressed either as areas | RT           | communicating                                    |
|         | plants (botany)                            |           | tric cross sections) which would produce                                     | _            | electromagnetic compatibility  interference      |
|         | sugar beets<br>sugar cane                  |           | erved results, or as ratios.   |              | telephony  |
|         | thermal resources                          | RT        | absorption cross sections  |              | wave diffraction                                 |
|         | vegetation growth                          |           | airfoil profiles   |              |  |
|         | viability                                  |           | area   | crowdi       | ng   |
|         | vineyards                                  |           | atomic collisions  |              | ∞ concentration                                  |
|         | wheat                                      |           | collision parameters   | 0            | saturation                                       |
| croplai | ade  |           | distribution (property)  | 00000        | (  |
| USE     | farmlands                                  |           | drawings   |              | (satellite)                                      |
| JUL     |  |           | geometry   | (add<br>UF   | ed April 1993)<br>Combined Release and Radiation |
| ∞ crops |  |           | gradients ionization cross sections  | Ur           | Effects Sat                                      |
| SN      | (USE OF A MORE SPECIFIC TERM IS            |           | mean free path   | GS           | artificial satellites                            |
|         | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |           | neutron cross sections   |              | . scientific satellites                          |
|         | •  |           |  |              |  |

. CRRES (satellite) grinding (comminution) ∞ cryogenic storage chemical clouds cryogenic tanks chemical release modules crustal dynamics evaporative cooling Earth ionosphere USE Earth crust fluid management geodynamics fuel tanks Earth magnetosphere extraterrestrial radiation multilayer insulation orbital space tests crustal fractures space storage radiation effects GS fracturing ∞ storage space plasmas crustal fractures storage tanks Earth crust spaceborne experiments thermal insulation Earth movements Earth surface cryogenic fluids crucibles earthquake resistance GS liquids  $RT \, \infty \, containers$ earthquakes cryogenic fluids heating equipment geodynamics . . Fermi liquids geological faults . . FLOX microseisms . . liquid helium cruciform wings P waves ... liquid helium 2 GS airfoils . . liquid hydrogen S waves . winas San Andreas Fault . . liquid nitrogen . cruciform wings . . liquid oxygen seismic waves fixed winas seismology RT cryogenic tanks low aspect ratio wings cryogenic temperature shatter cones shock loads cryogenics shock waves cryopumping crude oil soil mechanics fluid management UF petroleum surface waves ∞ fluids GS fuels rocket oxidizers . chemical fuels solid cryogen cooling solidified gases crusts . . hydrocarbon fuels crusts . . . fossil fuels . lunar crust . . . . crude oil planetary crusts cryogenic gyroscopes geophysical fluids GS gyroscopes . Earth crust crude oil lunar mantle cryogenic gyroscopes planetary mantles high temperature superconductors . crude oil resources cryochemistry cryogenic magnets . Earth resources magnets DEF The study of chemical phenomena in . . fossil fuels very low temperature environment. cryogenic magnets . . crude oil physical chemistry high temperature superconductors GS carbonaceous materials cryochemistry superconducting magnets deposits RT ∞ chemistry cryogenic rocket propellants energy policy cryogenic equipment fuel production DEF Rocket fuels, oxidizers, or propulsion cryogenics offshore energy sources fluids which are liquid only at very low temperalow temperature physics oil exploration tures. oil fields GS propellants cryocycle principle petroleum products . rocket propellants cryopumping reserves .. liquid rocket propellants spacecraft power supplies underwater resources cryogenic rocket propellants waxes cryodeposits cryogenics endothermic fuels GS deposits fluid management cryodeposits cruise missiles RT coatings gaseous rocket propellants Guided missiles, the major portion of gelled rocket propellants ∞ cryogenic storage whose flight path to its target is conducted a approximately constant velocity - depends on the dynamic reaction of air for lift, and upon high energy fuels cryogenics high energy propellants hybrid propellants cryogenic computer storage propulsive forces to balance drag. hydrogen fuels computer components GS missiles hypergolic rocket propellants computer storage devices . surface to surface missiles liquefied gases . . cryogenic computer storage . . cruise missiles liquid hydrogen RT ∞ cryogenic storage . . . Navaho missile liquid oxygen cryotrons . . Tomahawk missiles RL-10 engines ∞ equipment RT antiship missiles slush superconductors (materials) terrain following space storage storable propellants cryogenic cooling DEF Use of cryogenic fluids to reach temcruising flight ∞ cryogenic storage peratures near absolute zero. RT coasting flight (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) cooling GS ∞ flight . cryogenic cooling horizontal flight capillary pumped loops cryodeposits coolers cryogenic computer storage cryogenic fluid storage cryogenics Crusader aircraft freezing USE F-8 aircraft heat transfer cryogenic tanks refrigerating (added August 2003) Containers or other structures decrushers cryogenic equipment signed to hold cryogenic materials. comminution RT UF Dewar systems crushing cryotanks cryochemistry RT GS tanks (containers) disintegration cryogenic tanks cryogenic fluid storage cryogenic fluids cryogenics grinding mills ∞ equipment impactors gravitational wave antennas refrigerating space storage crushing refrigerating machinery storage tanks solid cryogens

cryogenic fluid storage

RT cold surfaces

cryogenic temperature
UF ultralow temper

temperature

GS

ultralow temperature

GS

RT

comminution

crushing

disintegration

crushers

|                   | . low temperature   | <b>cryosar</b><br>. solid state devices  | RT crystallography embedded atom method  |      |
|-------------------|---|--|--|------|
| RT                | absolute zero   | semiconductor devices  | holes (electron deficiencies)  |      |
|                   | cold traps  | avalanche diodes   | impurities   |      |
|                   | critical temperature  | cryosar  | interstitials  |      |
|                   | cryogenic fluids  | rectifiers   | lattice vibrations   |      |
|                   | cryogenics<br>Curie temperature   | . avalanche diodes<br><b>cryosar</b>   | mechanical twinning<br>order-disorder transformations  |      |
|                   | solidified gases  | RT Barritt diodes  | pinning  |      |
|                   | space temperature   | computer storage devices   | polygonization   |      |
|                   |   | cryogenics   | stacking fault energy  |      |
|                   | nic wind tunnels  | on coomtion  | stacks   |      |
|                   | Wind tunnels employing a cryogenic ment and utilizing independent control | cryosorption<br>USE <b>sorption</b>  | surface defects  |      |
|                   | ch number, Reynolds number, aeroelas-                                     | OOL SOIPHON  | trapping<br>twinning   |      |
|                   | ts, and model-tunnel interactions.  |  | twiining   |      |
| GS                | test facilities   | (added June 1996)  | crystal dislocations   |      |
|                   | . wind tunnels  | SN ((USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDED CONSULT THE                             | DEF Types of lattice imperfections wh  |      |
| рт                | cryogenic wind tunnels  | TERMS LISTED BELOW))   | existence in metals is postulated in orde  |      |
| KI                | flight simulators<br>test chambers  | RT Earth cryosphere  | account for the phenomenon of crystal gro<br>and of slip, particularly for the low value of sl |      |
|                   | test chambers   | planetary cryospheres<br>planetary environments  | stress required to initiate slip.  | icai |
| cryoger           | nics  | planetary environments   | GS defects   |      |
| DEF               | The study of the methods of producing                                     | cryostats  | . crystal defects  |      |
|                   | temperatures. The study of the behav-                                     | GS control equipment   | crystal dislocations   |      |
| or or n<br>empera | naterials and processes at cryogenic                                      | . regulators   | edge dislocations  |      |
| empera<br>RT      | absolute zero   | <b>cryostats</b><br>RT controllers   | screw dislocations dislocations (materials)  |      |
|                   | cold traps  | cryogenics   | . crystal dislocations   |      |
|                   | cooling   | electric switches  | edge dislocations  |      |
|                   | cryochemistry   | high temperature tests   | screw dislocations   |      |
|                   | cryodeposits  | liquid helium  | RT antiphase boundaries  |      |
|                   | cryogenic cooling   | liquid helium 2  | fatigue (materials)  |      |
|                   | cryogenic equipment cryogenic fluids                                      | low temperature tests  | grain boundaries   |      |
|                   | cryogenic ricket propellants  | temperature control thermostats  | pinning<br>point defects   |      |
|                   | cryogenic temperature   | thermostats  | Portevin-le Chatelier effect   |      |
|                   | cryopumping   | cryotanks  | superlattices  |      |
|                   | cryosar   | (added August 2003)  | superplasticity  |      |
|                   | cryostats   | USE cryogenic tanks  | surface defects  |      |
|                   | cryotrons<br>Fermi liquids  | orvotranning   | an atal field anlitting  |      |
|                   | high temperature superconductors  | cryotrapping GS trapping   | crystal field splitting USE crystal field theory   |      |
|                   | Joule-Thomson effect  | . cryotrapping   | ool oryotal notal moory  |      |
|                   | liquefied gases   | RT cold traps  | crystal field theory   |      |
|                   | low temperature   |  | (added January 1993)   |      |
|                   | low temperature physics   | cryotrons  | UF crystal field splitting   |      |
|                   | refrigerating   | DEF Devices based upon the principle that<br>superconductivity established at temperatures | crystal fields GS field theory (physics)   |      |
|                   | solid cryogen cooling solid cryogens                                      | near absolute zero is destroyed by the applica-  | . crystal field theory   |      |
|                   | solid nitrogen  | tion of a magnetic field.  | RT crystal lattices  |      |
|                   | solidified gases  | GS electronic equipment  | electric fields  |      |
|                   | superconducting power transmission  | . solid state devices  | metal ions   |      |
|                   | superconductivity   | cryotrons  | amustal fields   |      |
|                   | thermoelectric cooling  | switches<br>. electric switches  | crystal fields USE crystal field theory  |      |
|                   | thermomagnetic cooling  | cryotrons  | OOL Orystal field theory   |      |
| cryolite          |   | RT cryogenic computer storage  | crystal filters  |      |
| GS                | aluminum compounds  | cryogenics   | GS electromagnetic wave filters  |      |
|                   | cryolite  | superconductivity  | . bandpass filters   |      |
|                   | halogen compounds   | superconductors (materials)  | crystal filters<br>. electric filters  |      |
|                   | . fluorine compounds<br>fluorides   | cryptography   | crystal filters  |      |
|                   | cryolite  | DEF The science of preparing messages in   | RT bandstop filters  |      |
|                   | fluoro compounds  | a form which cannot be read by those not privy   | ∞ filters  |      |
|                   | cryolite  | to the secrets of the form.  | intermediate frequency amplifiers  |      |
|                   | . halides   | GS cryptography  | radio equipment  |      |
|                   | fluorides   | . quantum cryptography<br>RT ∞ codes   | radio filters<br>tunable filters   |      |
|                   | cryolite minerals   | codina   | turiable filters   |      |
|                   | . cryolite  | computer information security  | crystal growth   |      |
|                   | sodium compounds  | decoding   | GS growth  |      |
|                   | cryolite  | information theory   | crystal growth   |      |
| RT                | aluminum  | message processing   | Czochralski method   | - \  |
| more              | mning   | steganography  | directional solidification (crystal:<br>epitaxy  | (ذ   |
| ryopur<br>DFF     | The process of removing gas from a  | crystal defects  | atomic layer epitaxy   |      |
|                   | by condensing it on a surface main-                                       | DEF Departure from the regular arrangment  | electroepitaxy   |      |
|                   | t very low temperatures.  | of atoms in the ideal crystal lattice.   | liquid phase epitaxy   |      |
| RT                | cryocycle principle   | UF lattice imperfections   | molecular beam epitaxy   |      |
|                   | cryogenic fluids  | stacking faults  | vapor phase epitaxy  |      |
|                   | cryogenics  | GS defects . crystal defects   | hydrothermal crystal growth protein crystal growth   |      |
| ~                 | ∍pumping<br>∨acuum pumps  | . crystal dislocations   | traveling solvent method   |      |
|                   |   | edge dislocations  | Verneuil process   |      |
| ryosar            |   | screw dislocations   | RT Aitken nuclei   |      |
| GS                | electronic equipment  | point defects  | Bravais crystals   |      |
|                   | . diodes  | vacancies (crystal defects)  | Bridgman method  |      |
|                   | semiconductor diodes avalanche diodes                                     | Frenkel defects antisite defects   | buoyancy-driven flow containerless melts   |      |
|                   | avaiditorio Ulbuca  | artilotte delecto  | CONTRAINTENESS MEILS   |      |

crystal morphology doped crystals crystal structure crystallization fiber optics crystallites crystallography geometrical optics crystals ∞ optics GS crystals . crystallites doped crystals phase matching float zones photorefractivity . spherulites RT crystal structure inoculation physical optics laser deposition microcrystals mechanical twinning minerals crystal oscillators melts (crystal growth) rosette shapes GS crystals metalorganic chemical vapor . crystal oscillators crystallization deposition . . piezoelectric crystals UF devitrification ∞ microgravity applications oscillators GS crystallization nanostructure growth . crystal oscillators directional solidification (crystals) netting (materials/structures) . piezoelectric crystals . melt spinning nucleation electrical properties polygonization . recrystallization frequency control agglomeration pulsed laser deposition frequency stability rapid quenching (metallurgy) space processing concentrating oscillations containerless melts piezoelectricity crystal growth twinning demineralizing vapor deposition crystal rectifiers freezing UF silicon rectifiers inoculation crystal lattices GS electronic equipment liquidus DEF Three-dimensional, recurring patterns . diodes in which the atoms of crystals are arranged. materials recovery . . crystal rectifiers GS crystal lattices melts (crystal growth) . solid state devices . close packed lattices . cubic lattices modulation . crystal rectifiers nucleation rectifiers . . body centered cubic lattices Ostwald ripening crystal rectifiers phase stability (materials) . . face centered cubic lattices current converters (AC to DC) phase transformations . superlattices RT antiphase boundaries atomic structure semiconductor devices precipitation (chemistry) purification crystal structure refining Bravais crystals (AGGLOMERATIONS OF CRYSTALS--EXCLUDES CRYSTAL LATTICES) SN ∞ separation Brillouin zones settling chemical bonds GS crystal structure solid state coordination number . Widmanstatten structure solidification crystal field theory RT Abrikosov theory sublimation crystal morphology allotropy submarine hydrothermal vents crystallography anisotropy supercooling crystals antiphase boundaries supersaturation doping (materials) Bravais crystals zone melting epitaxy clathrates geometry coordination number crystallography
RT Bragg angle
crystal defects graphoepitaxy crystal morphology hexagonal cells crystallinity ionic crystals crystallites crystal growth Ising model crystals crystal lattices isomorphism doped crystals crystal morphology Kossel pattern enantiomers crystals lattice energy epitaxy Debye-Scherrer method lattice parameters ferroelasticity directivity lattice vibrations graphoepitaxy isotropy ∞ lattices interstitials lamella (metallurgy) Laue method isomorphism lattice parameters Laves phases isotropy Laue method metal crystals Laves phases metallography ∞ metallurgy metallography liquid phase epitaxy molecular chains mechanical twinning microbeams molecular structure metal crystals microstructure Mossbauer effect microstructure mineralogy order-disorder transformations molecular dynamics neutron diffraction particle in cell technique nanocrystals order-disorder transformations Patterson map nanostructure (characteristics)  $\infty$  orientation polymorphism order-disorder transformations radiography rapid quenching (metallurgy) packing density ∞ solid state physics single crystals Patterson map x ray analysis synthetic metals phonons x ray diffraction ultrapure metals polycrystals polymorphism crystals crystal morphology rapid quenching (metallurgy) (added October 2002) GS crystals spherulites . bicrystals DEF Characterization of a crystal by the ∞ structures shape and relative angular position of its faces. . boules superlattices GS morphology
. crystal morphology . Bravais crystals twinning . creatine vapor phase epitaxy crystal growth . crystal oscillators . . piezoelectric crystals crystal surfaces . crystallites crystal structure GS solid surfaces crystal surfaces . . spherulites crystal surfaces . dendritic crystals crystallography atomic force microscopy crystal morphology crystals doped crystals ionic crystals shapes metal surfaces liquid crystals surface layers . metal crystals crystal optics surfaces . microcrystals RT aberration . mixed crystals acousto-optics

crystallinity

RT amorphous materials

. nanocrystals

. polycrystals

Bragg cells

diffraction

|             | . quartz crystals                             |          | culture media                                |                 | . cumulative damage                         |
|-------------|---|----------|--|-----------------|---|
|             | . single crystals                             |          | culture techniques                           | RT              | component reliability                       |
| D.T.        | . whiskers (crystals)                         |          | fertilizers                                  |                 | defects                                     |
| RT          | anisotropy                                    |          | planting                                     |                 | degradation                                 |
|             | body centered cubic lattices                  |          | silviculture                                 |                 | durability                                  |
|             | clathrates                                    |          | soils  |                 | failure                                     |
|             | containerless melts                           |          | tissues (biology)                            |                 | operational hazards reliability             |
|             | crystal growth crystal lattices               | cultura  | I resources                                  |                 | structural reliability                      |
|             | crystal morphology                            | DEF      | Archaeological and historical sites.         |                 | wear tests                                  |
|             | crystal structure                             | RT       | archaeology                                  |                 | wear tests                                  |
|             | crystallography                               |          | human beings                                 | cumulo          | nimbus clouds                               |
|             | electroepitaxy                                |          |  |                 | A cumuliform cloud type: heavy and          |
|             | face centered cubic lattices                  | culture  | (social sciences)                            | dense,          | with considerable vertical extent in the    |
| 000         | grains  | RT       | American Indians                             | form of         | massive towers. This form frequently        |
|             | isotropy                                      |          | anthropology                                 | exhibits        | tops in the shape of an anvil or massive    |
|             | packing density                               |          | artifacts                                    | plume. I        | t is frequently accompanied by lightning,   |
|             | phase matching                                |          | Eskimos                                      |                 | , and sometimes hail; occasionally pro-     |
|             | ruby  |          | ethnic factors                               |                 | a tornado or a watersprout.                 |
|             | spherules                                     |          | governments                                  | GS              | clouds (meteorology)                        |
|             |   |          | minorities                                   |                 | . convection clouds                         |
| CSM         |   |          | politics                                     |                 | cumulonimbus clouds                         |
| USE         | command service modules                       |          | race factors                                 | DT              | anvil clouds                                |
| CT-114      | aircraft                                      |          | races (anthropology)                         | RT              | cumulus clouds                              |
|             | CL-41 aircraft                                |          | regimes                                      |                 | nimbostratus clouds                         |
| USL         | CL-41 all Clait                               |          | social factors                               |                 | precipitation (meteorology)                 |
| CTD         |   |          | sociology                                    |                 | thunderstorms                               |
| USE         | charge transfer devices                       | culture  | modia  |                 | tornadoes                                   |
| 002         | onargo namero: actions                        |          | ed August 2004)                              | cumulu          | s clouds                                    |
| Cuba        |   |          | Any liquid or solid preparation made         | DEF             | Clouds in the form of individual de-        |
| GS          | landforms                                     |          | ally for the growth, storage, or transport   |                 | domes or towers which are usually           |
|             | . islands                                     |          | organisms or other types of cells. The       |                 | and well defined. These clouds develop      |
|             | West Indies                                   |          | of media that exists allow for the culturing |                 | y in the form of rising mounds. The sunlit  |
|             | Cuba  |          | ific microorganisms and cell types, such     |                 | e mostly brilliantly white; their bases are |
|             | nations                                       | as diffe | rential media, selective media, test me-     | relativel       | y dark and nearly horizontal.               |
|             | Cuba  | dia, and | d defined media.                             | GS              | clouds (meteorology)                        |
| RT          | Caribbean region                              | GS       | culture techniques                           |                 | . convection clouds                         |
|             | Caribbean Sea                                 |          | . culture media                              |                 | cumulus clouds                              |
| cubane      |   | RT       | cell culturing                               |                 | anvil clouds                                |
| GS          | organic compounds                             |          | cells (biology)                              | RT              | cumulonimbus clouds                         |
| 00          | . hydrocarbons                                |          | clone cells                                  |                 | stratocumulus clouds                        |
|             | cubane  |          | cloning (biology)                            | oungle          | •   |
|             |   |          | cultivation                                  | ∞ cupola:<br>SN | (USE OF A MORE SPECIFIC TERM IS             |
| cubes (     | mathematics)                                  |          | cultured cells                               | OIN             | RECOMMENDEDCONSULT THE TERMS                |
| GS          | geometry                                      |          | microbiology                                 |                 | LISTED BELOW)                               |
|             | . Euclidean geometry                          |          | organ culturing                              | RT              | domes (structural forms)                    |
|             | polyhedrons                                   |          | tissue culturing<br>tissue engineering       |                 | furnaces                                    |
|             | cubes (mathematics)                           |          | ussue engineering                            |                 | gun turrets                                 |
| RT          | blocks  | culture  | techniques                                   | cuprate         | as .  |
| oubio o     | quations                                      | GS       | culture techniques                           |                 | ed April 1999)                              |
|             | <b>quations</b><br>algebra                    |          | . cell culturing                             | GS              | copper compounds                            |
| 00          | . nonlinear equations                         |          | . culture media                              |                 | . cuprates                                  |
|             | cubic equations                               |          | . organ culturing                            | RT              | BSCCO superconductors                       |
|             | analysis (mathematics)                        |          | . tissue culturing                           |                 | copper oxides                               |
|             | . real variables                              | RT       | Chlorella                                    |                 | YBCO superconductors                        |
|             | nonlinear equations                           |          | clone cells                                  |                 |   |
|             | cubic equations                               |          | cloning (biology)                            | curare          |   |
|             | field theory (algebra)                        |          | cultivation                                  | GS              | poisons                                     |
|             | cubic equations                               |          | cultured cells                               |                 | . curare                                    |
| RT ∝        | equations                                     |          | in vitro methods and tests                   | RT              | alkaloids                                   |
|             | polynomials                                   |          | in vivo methods and tests microbiology       |                 | anticholinergics                            |
|             |   |          | stem cells                                   | ۰               | o poisoning                                 |
| cubic la    |   |          | tissue engineering                           |                 | toxicology                                  |
| GS          | crystal lattices                              |          | tioodo originooring                          | cures           |   |
|             | . cubic lattices body centered cubic lattices | culture  | d cells                                      | RT              | diseases                                    |
|             | face centered cubic lattices                  | (add     | ed August 2004)                              |                 | drugs                                       |
| RT          | Laves phases                                  |          | Cells propagated in vitro in special         |                 | first aid                                   |
| 111         | Laves phases                                  | media d  | conducive to their growth. Cultured cells    |                 | healing                                     |
| cues        |   | are use  | d to study developmental, morphologic,       |                 | therapy                                     |
| GS          | cues  |          | lic, physiologic, and genetic processes,     |                 |   |
|             | . zeitgebers                                  | among    | others.                                      |                 | emperature                                  |
| RT          | auditory signals                              | UF       | cell lines                                   |                 | The temperature in a ferromagnetic          |
|             | visual signals                                | GS       | cells (biology)                              |                 | above which the material becomes            |
|             |   |          | . cultured cells                             |                 | tially nonmagnetic.                         |
| cuestas     | alda a  | 57       | clone cells                                  | GS              | magnetic properties                         |
| USE         | ridges  | RT       | biotechnology                                |                 | . Curie temperature                         |
| ou#o        |   |          | cell culturing                               |                 | temperature<br>Curio temperature            |
| cuffs<br>DT | clothing                                      |          | cloning (biology)                            | DT              | . Curie temperature                         |
| RT          | clothing                                      |          | culture media<br>culture techniques          | RT              | cryogenic temperature diamagnetism          |
|             | seals (stoppers)                              |          | in vitro methods and tests                   |                 | electrets                                   |
| cultivati   | ion   |          | microbiology                                 |                 | ferroelectricity                            |
| GS          | cultivation                                   |          | organ culturing                              |                 | ferromagnetism                              |
|             | . plowing                                     |          | tissue culturing                             |                 |   |
| RT          | ammonia                                       |          |  | Curie-W         | Veiss law                                   |
|             | ammonium nitrates                             | cumula   | tive damage                                  | RT              | ferromagnetism                              |
|             | ashes   | GS       | damage                                       |                 | magnetic permeability                       |
|             |   |          |  |                 |   |

|              | magnetic properties           |          | chemical compounds                           | DT        | . current distribution                                       |
|--------------|-------------------------------|----------|--|-----------|--|
|              | paramagnetism                 | ۰        | ∘ Group 3B compounds                         | RI        | charge distribution electron distribution                    |
| curing       |                               | curium   | isotopes                                     | ۰         | <ul> <li>hole distribution</li> </ul>                        |
| RT           | alfalfa                       | GS       | chemical elements                            |           | hole distribution (electronics)                              |
|              | autoclaving                   |          | actinide series                              |           | ion distribution   |
|              | citrus trees<br>corn          |          | transuranium elements                        |           | magnetic annular arc   |
|              | crosslinking                  |          | curium curium isotopes                       |           | neutral currents   |
|              | degradation                   |          | curium 242                                   | current   | regulators   |
|              | drying                        |          | curium 244                                   | UF        | current stabilizers  |
|              | farm crops                    |          | . nuclides                                   | GS        | control equipment  |
|              | glass transition temperature  |          | isotopes                                     |           | . regulators   |
|              | oats<br>orchards              |          | radioactive isotopes transuranium elements   | RT        | current regulators circuit protection                        |
|              | preserving                    |          | curium                                       | 101       | controllers  |
|              | resin transfer molding        |          | curium isotopes                              |           | electric current   |
| ۰            | ∞ setting                     |          | curium 242                                   | ۰         | electric equipment   |
|              | vulcanizing                   |          | curium 244                                   |           | electric switches  |
|              | weathering                    |          | metals . actinide series                     |           | electronic control<br>limiter circuits                       |
| curium       |                               |          | transuranium elements                        |           | power factor controllers                                     |
| GS           | chemical elements             |          | curium                                       |           | power supply circuits  |
|              | . actinide series             |          | curium isotopes                              |           | switching circuits   |
|              | transuranium elements         |          | curium 242                                   |           | transmission loss  |
|              | curium<br>curium isotopes     |          | curium 244                                   |           | voltage regulators   |
|              | curium 242                    | curl (m  | aterials)                                    | current   | sheets   |
|              | curium 244                    | RT       | dimensional stability                        | RT        | antennas   |
|              | . nuclides                    |          | folding                                      |           | electric current   |
|              | isotopes                      | ۰        | ∘ materials                                  |           | magnetic flux  |
|              | radioactive isotopes          |          | textures                                     |           | magnetic islands   |
|              | transuranium elements         | curl (ve | octors)                                      | ٥         | o sheets   |
|              | curium                        |          | A vector operation upon a vector field       | current   | stabilizers  |
|              | curium 242                    |          | epresents the rotation of the field, related |           | current regulators   |
|              | curium 244                    | to the c | irculation of the field at each point.       |           |  |
|              | metals                        | GS       | analysis (mathematics)                       | ∞ current |  |
|              | . actinide series             |          | . calculus                                   | SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|              | transuranium elements curium  |          | vector analysis curl (vectors)               | DT        | LISTED BELOW)  |
|              | curium isotopes               |          | vorticity                                    | RT        | air currents<br>air flow                                     |
|              | curium 242                    |          | . real variables                             |           | beam currents  |
|              | curium 244                    |          | vector analysis                              |           | circulation  |
|              | 242                           |          | curl (vectors)                               |           | coastal currents   |
| curium<br>GS | chemical elements             |          | vorticity                                    |           | electric current   |
| GS           | . actinide series             |          | geometry . vector analysis                   |           | external surface currents                                    |
|              | transuranium elements         |          | curl (vectors)                               |           | fluid flow ocean currents                                    |
|              | curium                        |          | vorticity                                    |           | water currents   |
|              | curium isotopes               |          |  |           |  |
|              | curium 242                    |          | algebra                                      |           | s (oceanography)   |
|              | . nuclides isotopes           | GS       | algebra . current algebra                    | USE       | water currents   |
|              | radioactive isotopes          | RT •     | ∞ mathematics                                | curtain   | s  |
|              | transuranium elements         |          | nuclear physics                              |           | ∞ barriers   |
|              | curium                        |          | vector currents                              |           | dividers   |
|              | curium isotopes               |          | amulifiana                                   |           | doors  |
|              | curium 242<br>metals          |          | amplifiers amplifiers                        |           | entrances  |
|              | . actinide series             | 00       | . current amplifiers                         |           | openings   |
|              | transuranium elements         |          | photomultiplier tubes                        | · ·       | partitions (structures)                                      |
|              | curium                        |          | frequency modulation                         | ۰         | ∘ screens  |
|              | curium isotopes               | DT       | photomultipliers                             |           | separators   |
|              | curium 242                    | RT       | transistor amplifiers voltage amplifiers     |           | walls  |
| curium       | 244                           |          | voltage amplifiers                           |           | windows (apertures)  |
| GS           | chemical elements             | current  | converters (AC to DC)                        | Curtiss   | C-46 aircraft  |
|              | . actinide series             | RT       | alternating current                          |           | C-46 aircraft  |
|              | transuranium elements         | ۰        | o converters                                 |           |  |
|              | curium                        |          | crystal rectifiers                           |           | -Wright aircraft   |
|              | curium isotopes<br>curium 244 |          | direct current electric current              | GS        | Curtiss-Wright aircraft . C-46 aircraft                      |
|              | . nuclides                    |          | inverted converters (DC to AC)               |           | . X-19 aircraft  |
|              | isotopes                      |          | rectifiers                                   | RT •      | ∞ aircraft   |
|              | radioactive isotopes          |          | silicon controlled rectifiers                |           |  |
|              | transuranium elements         |          | thyratrons                                   | curvatu   |  |
|              | curium                        | ourrons  | density                                      | GS        | geometry . curvature   |
|              | curium isotopes               | GS       | rates (per time)                             | RT        | camber   |
|              | metals                        |          | . flux density                               |           | ∘ curves   |
|              | . actinide series             |          | current density                              |           | curves (geometry)  |
|              | transuranium elements         | RT       | critical current                             |           | differential geometry  |
|              | curium                        |          | electric current                             |           | flexing  |
|              | curium isotopes<br>curium 244 |          | electrolysis<br>electroplating               | ٥         | oprofiles  |
|              | Curiulli 244                  |          | pinning                                      |           | shapes<br>zero force curves                                  |
| curium       | compounds                     |          |  |           |  |
| GS           | actinide series compounds     |          | distribution                                 | curve f   |  |
|              | . curium compounds            | GS       | distribution (property)                      | RT        | data compression   |

|           | data smoothing                  |           | vibration isolators                        |            | peeling                     |
|-----------|---------------------------------|-----------|--|------------|-----------------------------|
|           | forecasting                     |           |  |            | perforating                 |
|           | least squares method            | ∞ cusps   |  |            | piercing                    |
|           | minimax technique               | ŚN        | (USE OF A MORE SPECIFIC TERM IS            | ~          | separation                  |
|           | saddle points                   | 0         | RECOMMENDEDCONSULT THE TERMS               |            | •                           |
|           |                                 |           | LISTED BELOW)                              |            | shredding                   |
|           | statistical distributions       | RT        | cusps (landforms)                          |            | splitting                   |
|           | statistical tests               |           | cusps (mathematics)                        |            | torches                     |
|           | time series analysis            |           | double cusps                               |            |                             |
|           |                                 |           | polar cusps                                | CV-2 air   | rcraft                      |
|           |                                 |           | polar odopo                                | USE        | DHC 4 aircraft              |
|           | beams                           | cuene (   | landforms)                                 | 002        | Dirio 4 anoran              |
| GS        | structural members              | GS        | landforms                                  | 01/7-      |                             |
|           | . beams (supports)              | 65        |  | CV-7 aii   |                             |
|           | curved beams                    | БТ        | cusps (landforms)                          | USE        | DHC 5 aircraft              |
| RT        | camber                          | RT        | beaches                                    |            |                             |
|           | I beams                         |           | coasts                                     | CV-340     | aircraft                    |
|           |                                 | ∞         | cusps                                      | UF         | Convair 340 aircraft        |
|           |                                 |           | topography                                 | GS         | commercial aircraft         |
| curved    | panels                          |           |  | 00         | . CV-340 aircraft           |
| GS        | panels                          | cusps (   | mathematics)                               |            |                             |
|           | curved panels                   | GS `      | geometry                                   |            | General Dynamics aircraft   |
| RT        | contours                        |           | . cusps (mathematics)                      |            | . CV-340 aircraft           |
|           | shapes                          |           | double cusps                               |            | monoplanes                  |
|           | •                               | DT        |  |            | . CV-340 aircraft           |
|           | wing panels                     | RT        | curves (geometry)                          |            | passenger aircraft          |
|           |                                 | ∞         | cusps                                      |            | . CV-340 aircraft           |
| curved    | surfaces                        |           | epicycloids                                | RT ∝       | ∘ aircraft                  |
|           |                                 |           | maxima                                     |            | anoran                      |
| USE       | contours                        |           | minima                                     |            |                             |
|           | shapes                          |           |  | CV-440     |                             |
|           | surfaces                        | custom    | integrated circuits                        | UF         | Convair 440 aircraft        |
|           |                                 | USE       | application specific integrated            |            | Metropolitan aircraft       |
|           |                                 | USE       |  | GS         | commercial aircraft         |
| curves    |                                 |           | circuits                                   | 00         | . CV-440 aircraft           |
| SN        | (USE OF A MORE SPECIFIC TERM IS |           |  |            | General Dynamics aircraft   |
|           | RECOMMENDEDCONSULT THE TERMS    | cutaneo   | us perception                              |            |                             |
| БТ        | LISTED BELOW)                   | USE       | touch                                      |            | CV-440 aircraft             |
| RT        | curvature                       |           |  |            | monoplanes                  |
|           | graphs (charts)                 | ∞ cut-off |  |            | . CV-440 aircraft           |
|           | learning curves                 | SN        | (USE OF A MORE SPECIFIC TERM IS            |            | passenger aircraft          |
|           | light curve                     | 0.1       | RECOMMENDEDCONSULT THE TERMS               |            | . CV-440 aircraft           |
|           | toroids                         |           | LISTED BELOW)                              | DT         | aircraft                    |
|           | trajectories                    | DEF       | An act or instance of shutting some-       | KI ×       | allClaft                    |
|           |                                 | thing off | ; specifically, in rocketry, an act or in- |            |                             |
|           | zero force curves               |           | of shutting off the propellant flow in a   | CV-880     | aircraft                    |
|           |                                 |           | or stopping the combustion of the pro-     | UF         | Convair 880 aircraft        |
|           | (manmatus)                      |           | or stopping the combustion of the pro-     | GS         | commercial aircraft         |
|           | (geometry)                      | pellant.  |  | 00         | . CV-880 aircraft           |
| GS        | geometry                        | RT        | burnout                                    |            |                             |
|           | . curves (geometry)             |           | engine failure                             |            | General Dynamics aircraft   |
|           | catenaries                      |           | machining                                  |            | . CV-880 aircraft           |
|           | cycloids                        |           | ····ao································     |            | jet aircraft                |
|           | epicycloids                     | cut-outs  |  |            | . CV-880 aircraft           |
|           |                                 |           |  |            | monoplanes                  |
|           | S curves                        | USE       | openings                                   |            | . CV-880 aircraft           |
|           | Gompertz curves                 |           |  |            |                             |
| RT        | analytic geometry               | cutters   |  |            | passenger aircraft          |
| c         | ∞ arcs                          | SN        | (EXCLUDES SHIPS)                           |            | . CV-880 aircraft           |
|           | chords (geometry)               | GS        | cutters                                    |            | transport aircraft          |
|           | circles (geometry)              |           | . blades (cutters)                         |            | . CV-880 aircraft           |
|           |                                 |           | razor blades                               | RT ∝       | ∘ aircraft                  |
|           | curvature                       |           | . drill bits                               |            |                             |
|           | cusps (mathematics)             |           |  | 01/ 000    |                             |
|           | differential geometry           |           | . drills                                   | CV-990     |                             |
|           | Euclidean geometry              |           | . saws                                     | UF         | Convair 990 aircraft        |
|           | geodesic lines                  |           | . shears                                   | GS         | commercial aircraft         |
|           | ∞ helices                       | RT        | cutting                                    |            | . CV-990 aircraft           |
|           | homotopy theory                 |           | dies                                       |            | General Dynamics aircraft   |
|           |                                 |           | laser cutting                              |            | . CV-990 aircraft           |
|           | inflection points               |           | machine tools                              |            | jet aircraft                |
|           | line shape                      |           |  |            | ,                           |
|           | manifolds (mathematics)         |           | scrapers                                   |            | . turbofan aircraft         |
|           | menisci                         |           | taps                                       |            | CV-990 aircraft             |
|           | segments                        |           | tools                                      |            | monoplanes                  |
| c         | ∞ spirals                       |           |  |            | . CV-990 aircraft           |
|           | -1 ===                          | cutting   |  |            | passenger aircraft          |
|           |                                 | GS        | cutting                                    |            | . CV-990 aircraft           |
| curviline | ear coordinates                 |           | . blanking (cutting)                       | DT.        | aircraft                    |
| USE       |                                 |           |  | KI «       | aliciali                    |
| OOL       | Sprierical coordinates          |           | . laser cutting                            |            |                             |
|           |                                 |           | . metal cutting                            | CVD (de    | eposition)                  |
| Cushio    | ncraft ground effect machine    |           | . milling (machining)                      | USE        | vapor deposition            |
| GS        | ground effect machines          |           | . planing                                  |            |                             |
| GS        |                                 |           | scarfing                                   | 0) // // / |                             |
|           | . Cushioncraft ground effect    |           | . shearing                                 |            | orication)                  |
|           | machine                         |           | . slicing                                  | USE        | chemical vapor infiltration |
| RT        | hovering                        |           |  |            |                             |
|           | vertical takeoff aircraft       | 5.7       | . spark machining                          | CVM (se    | olid state)                 |
|           |                                 | RT        | abrasion                                   |            | ed July 1997)               |
|           |                                 |           | chipping                                   |            |                             |
| cushio    | ns                              |           | comminution                                | USE        | cluster variation method    |
| RT        | air cushion landing systems     |           | cutters                                    |            |                             |
|           | bumpers                         |           | drilling                                   | CW rad     | ar                          |
|           |                                 |           |  | USE        | continuous wave radar       |
|           | couches                         |           | flaking                                    | USL        | Continuous wave laual       |
|           | ground effect (aerodynamics)    |           | forming techniques                         |            |                             |
|           | hydraulic equipment             |           | fracturing                                 | cyanam     | ides                        |
| c         | ∞ pad                           |           | grinding (material removal)                | GS         | nitrogen compounds          |
|           | pneumatic equipment             |           | grooving                                   |            | . amides                    |
|           |                                 |           | machining                                  |            |                             |
|           | seats                           |           |  |            | cyanamides                  |
|           | shock absorbers                 |           | micromachining                             |            | . cyano compounds           |

.. cyanamides . . cyanuric acid series of reactions. Used for cyclic adenosine monophosphate. cyanates Cyber 74 computer cyclic adenosine monophosphate USE CDC Cyber 74 computer RT esters organic compounds urethanes . coenzymes cybernetics .. cyclic AMP cyanide emission The study of methods of control and . cyclic compounds communication which are common to living or-USE CN emission . . heterocyclic compounds ganisms and machines. . . . adenosines cyanides RT adaptive control .... cyclic AMP GS cyanides automata theory . nucleotides . acetonitrile ∞ automation . . adenosines . cyanogen . iron cyanides biomimetics . cyclic AMP phosphorus compounds bionics phosphates . malononitrile communication theory succinonitrile computers . cyclic AMP cyano compounds control adenosine monophosphate cyanoacetylene control systems design adrenergics nitrogen compounds controllers alkynes depersonalization amino acids cyano compounds feedback cholinergics GS nitrogen compounds human factors engineering guanines . cyano compounds information theory pharmacology . . cyanamides machine learning man machine systems . . cyanoacetylene . . isocyanates management cyclic compounds DEF In organic chemistry, compounds containing a ring of atoms. . . . diisocyanates model reference adaptive control . fulminates neural nets RT ∞ chemical compounds psychology organic compounds . cyclic compounds
. . cyclic hydrocarbons cyanides ∞ systems systems engineering ... anthracene cyanoacetylene benzene cycles GS nitrogen compounds chlorobenzenes DEF The complete sequences of values of . cyano compounds colchicine a periodic quantity that occur during a period. . cyanoacetylene Used for cycling and periodic processes. cyclobutane cycling periodic processes organic compounds cyclohexane hydrocarbons cyclopropane cyanoacetylene durene GS cycles cycles
. activity cycles (biology)
. carbon cycle
. hydrological cycle
. solar cycles
. sunspot cycle
. stress cycles acetylene indene cyanides ... menthol . . . naphthalene cyanocobalamin ... naphthenes vitamin B 12 . . . polycyclic aromatic hydrocarbons organic compounds . . heterocyclic compounds . cyclic compounds . . . acriflavine thermodynamic cycles . . heterocyclic compounds . . . adenosines Brayton cycle cyanocobalamin .... adenosine diphosphate Carnot cycle vitamins ... adenosine monophosphate Otto cycle . . . adenosine triphosphate . cyanocobalamin . . Rankine cycle . . . . cyclic AMP Stirling cycle . . . alkaloids cyanogen . photoperiod GS cyanides . . . . atropine work-rest cycle . cyanogen betaines alternations . . . . caffeine amplitudes Cyanophyta
USE blue green algae . colchicine annual variations . . . . ergotamine cyclic loads hyoscine diurnal variations . . . . lysergine cyanosis fatigue (materials) . . . morphine GS diseases frequency distribution cyanosis harmonics . nicotine blood circulation intermittency pilocarpine heart function long term effects periodic variations reserpine strychnine cyanurates phases . . . . tropyl compounds GS esters reciprocation rhythm (biology) . cyanurates anisole organic compounds . . . ascorbic acid starting . cyclic compounds superharmonics . . . azines . . heterocyclic compounds . . . . cyanurates . . . azines . . . . cyanuric acid cyclic accelerators . . . . cyanurates . . . . meclizine GS particle accelerators pyrazines . cyclic accelerators ... methylene blue . . . . phenothiazines . azines . . betatrons . . synchrocyclotrons . . synchrotrons . . cyanurates . . . azoles ... acetazolamide cyanuric acid ... bevatron ... oxazole . . . . pyrroles GS acids . . . storage rings (particle cyanuric acid . . carbazoles accelerators) hydroxyl compounds . . . azulene RT ∞ accelerators bioflavonoids . alcohols . . triols . . . biotin cyclic adenosine monophosphate USE cyclic AMP . cyanuric acid carnitine organic compounds . . . cyanocobalamin . cyclic compounds cyclic AMP cytidylic acid DEF A nucleotide which is implicated as an . heterocyclic compounds . . . dimenhydrinate intracellular messenger in a wide variety of cellular processes. Prototypically it acts as a molecular transducer of nonsteroid signals from . . . azines . . . endrin cyanuric acid ... ethylene oxide

outside the cell to relevant cellular enzymes by a

folic acid

. . . furans

pyrazines

azines

|                                   | tetrahydrofuran  | vibratory loads  | . cyclic compounds  |
|-----------------------------------|--|--|---|
|                                   | guanethidine   | ,  | cyclic hydrocarbons   |
|                                   | HMX  | cycling  | cyclopropane  |
|                                   | nicotinic acid   | USE cycles   | . hydrocarbons  |
|                                   | phthalocyanin  |  | cyclic hydrocarbons   |
|                                   | phylloquinone  | cycloaddition  | cyclopropane  |
|                                   | piperidine   | (added June 1998)  | RT propane  |
|                                   | promethazine   | DEF Pericyclic chemical reaction in which  |   |
|                                   | purines  | unsaturated molecules combine to form a cyc  |   |
|                                   | adenines   | compound under the influence of heat or light<br>GS chemical reactions   | GS plasma accelerators  |
|                                   | xanthines  | . cycloaddition  | Cyclops plasma accelerator  |
|                                   | caffeine   | . Diels-Alder reactions  | RT ∞ accelerators   |
|                                   | guanines   | RT cyclic compounds  | plasmas (physics)   |
|                                   | uric acid  | photochemical reactions  |   |
|                                   | pyridines pyridoxine   | polymerization   | cyclotetramethylene tetranitramine  |
|                                   | pyridoxine   | synthesis (chemistry)  | USE HMX   |
|                                   | alloxan  | ,  |   |
|                                   | thymidine  | cyclobutane  | cyclotrimethylene trinitramine  |
|                                   | thymine  | GS organic compounds   | USE RDX   |
|                                   | uracil   | . cyclic compounds   | OOL NEX   |
|                                   | indoles  | cyclic hydrocarbons  | avalatran francisco   |
|                                   | RDX  | cyclobutane  | cyclotron frequency   |
|                                   | retinene   | . hydrocarbons   | DEF Frequency at which a charged particle   |
|                                   | riboflavin   | cyclic hydrocarbons  | orbits in a uniform magnetic field. It depends on<br>the charge to mass ratio of the particle times the   |
|                                   | tetracyclines  | cyclobutane  | magnetic field. While the frequency is indepen-   |
|                                   | tetrazoles   | cyclogenesis   | dent of the particle energy, Lamor orbit in-  |
|                                   | thiamine   | RT arc clouds  | creases with energy.  |
|                                   | thiazine (trademark)   | atmospheric circulation  | GS frequencies  |
|                                   | thiophenes   | atmospheric pressure   | . cyclotron frequency   |
|                                   | tocopherol   | cyclones   | RT charged particles  |
|                                   | trimethadione  | hurricanes   | Larmor precession   |
|                                   | tryptamines  | low pressure   | ·   |
|                                   | tryptophan<br>melatonin  | storms (meteorology)   | cyclotron radiation   |
|                                   | serotonin  |  | DEF The electromagnetic radiation emitted   |
|                                   | imidazoles   | cyclohexane  | by charged particles as they orbit in a magnetic  |
|                                   | rhodamine  | GS organic compounds   | field. The radiation arises from the centripetal  |
| RT o                              | chemical compounds   | . cyclic compounds   | acceleration of the particle as it moves in a   |
|                                   | cycloaddition  | cyclic hydrocarbons  | circular orbit.   |
|                                   | organic chemistry  | <b>cyclohexane</b><br>. hydrocarbons   | GS electromagnetic radiation  |
|                                   | ,  | cyclic hydrocarbons  | . nonthermal radiation  |
| cyclic I                          | ydrocarbons  | cyclohexane  | cyclotron radiation   |
| GS                                | organic compounds  |  | ion cyclotron radiation   |
| 00                                | •  | RT henzene   |   |
| 00                                | . cyclic compounds   | RT benzene<br>hexenes  | RT charged particles  |
| 00                                | . cyclic compounds   | hexenes  | RT charged particles Larmor precession  |
| 00                                | . cyclic compounds cyclic hydrocarbons anthracene  |  | RT charged particles Larmor precession Larmor radius  |
| 00                                | . cyclic compounds cyclic hydrocarbons anthracene benzene  | hexenes  | RT charged particles Larmor precession  |
| 00                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes   | hexenes<br>hydrogenation   | RT charged particles Larmor precession Larmor radius  |
| 00                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine  | hexenes hydrogenation  cycloids GS geometry . curves (geometry)  | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance   |
| 00                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) cycloids   | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in   |
| 00                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclohexane  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry  | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in a magnetic field from an alternating-current  |
| 00                                | cyclic compounds cyclic hydrocarbons anthracene benzene colchicine cyclobutane cyclohexane cyclopropane  | hexenes hydrogenation  cycloids GS geometry curves (geometry) cycloids Euclidean geometry analytic geometry  | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the   |
| 00                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobexane cyclopropane durene  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry  | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclohexane cyclopropane durene indene   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry cycloids   | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency. GS resonance   |
| 33                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobexane cyclopropane durene  | hexenes hydrogenation  cycloids GS geometry curves (geometry) cycloids Euclidean geometry analytic geometry cycloids cycloids cycloids   | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency. GS resonance cyclotron resonance  |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobexane cyclopropane durene indene menthol   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry cycloids   | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency. GS resonance . cyclotron resonance . electron cyclotron resonance   |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclohexane cyclopropane durene indene menthol naphthalene   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close  | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance  cyclotron resonance  cyclotron resonance  charged particles diamagnetism  |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobexane cyclopropane durene indene menthol naphthalene naphthenes  | hexenes hydrogenation  cycloids GS geometry curves (geometry) cycloids Euclidean geometry analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the  | RT charged particles Larmor precession Larmor radius  ∞ radiation   cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency. GS resonance  cyclotron resonance  cyclotron resonance  cyclotron resonance  charged particles diamagnetism energy transfer   |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobutane cyclopropane durene indene menthol naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons cyclic hydrocarbons   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids Euclidean geometry . analytic geometry . cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the second circulation that rotate counterclockwise in the second circulation | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance  cyclotron resonance  cyclotron cyclotron resonance  charged particles diamagnetism energy transfer  |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclohexane durene indene menthol naphthalene naphthenes polycyclic aromatic hydrocarbons tyclic hydrocarbons cyclic hydrocarbons anthracene   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere.  | RT charged particles Larmor precession Larmor radius  ∞ radiation   cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance  cyclotron resonance  cyclotron resonance  charged particles diamagnetism energy transfer fermi surfaces  |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobexane durene indene menthol naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons anthracene cyclic hydrocarbons anthracene benzene   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in th Northern Hemisphere and clockwise in th Southern Hemisphere. GS storms  | RT charged particles     Larmor precession     Larmor radius     ∞ radiation  cyclotron resonance     DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.     GS resonance   |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobutane cyclopropane durene indene menthol naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons anthracene benzene cyclic hydrocarbons cyclic bydrocarbons chlorobenzenes   | hexenes hydrogenation  cycloids GS geometry curves (geometry) cycloids Euclidean geometry analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms storms (meteorology)   | RT charged particles Larmor precession Larmor radius  ∞ radiation   cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance  cyclotron resonance  cyclotron resonance  charged particles diamagnetism energy transfer fermi surfaces  |
| 55                                | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobutane cyclopropane durene indene naphthenes plycyclic aromatic hydrocarbons hydrocarbons anthracene benzene cycloropane chlorobenzenes  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . rcycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms (meteorology) . cyclones   | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance red charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance   |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclohicine cyclobexane cyclopropane durene indene naphthalene naphthalene polycyclic aromatic hydrocarbons hydrocarbons anthracene benzene chlorobenzenes coclohicine cyclobutane  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms (meteorology) . cyclones hurricanes   | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance RT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance cyclotron resonance   |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobexane durene indene menthol naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobutane cyclobutane cyclobutane cyclobutane cyclobutane cyclobutane cyclobutane cyclobutane   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms (meteorology) . cyclones hurricanes Anna hurricane  | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance RT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  cyclotron resonance devices DEF Microwave amplifiers based on the in-  |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobexane durene indene menthol naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons anthracene benzene chlorobenzenes cyclobitane cyclobitane cyclic aromatic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclic pydrocarbons cyclic pydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclic aromatic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclobitane cyclobypane  | hexenes hydrogenation  cycloids GS geometry curves (geometry) cycloids Euclidean geometry analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Northern Hemisphere. GS storms storms storms typhoons hurricanes Anna hurricane typhoons  | RT charged particles Larmor precession Larmor radius  ∞ radiation   cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance  cyclotron resonance  cyclotron resonance  charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  cyclotron resonance  cyclotron adiation plasma resonance  DEF Microwave amplifiers based on the interaction between electromagnetic waves and  |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene colchicine cyclobutane cyclopropane durene indene naphthenes polycyclic aromatic hydrocarbons hydrocarbons cyclic hydrocarbons anthracene benzene chlorobenzenes cyclopropane durene indene naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclopropane durene   | hexenes hydrogenation  cycloids GS geometry curves (geometry) cycloids Euclidean geometry analytic geometry cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms storms storms (meteorology) cyclones hurricanes hurricanes hurricanes hyphoons RT anticyclones   | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance RT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  Cyclotron resonance devices  DEF Microwave amplifiers based on the interaction between electromagnetic waves and transverse electron streams moving along heli-   |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene colchicine cyclobexane cyclopropane durene indene naphthalene naphthalene polycyclic aromatic hydrocarbons cyclic hydrocarbons anthracene benzene cyclobexane cyclopropane durene indene naphthalene naphthalene naphthalene colchicine cyclic hydrocarbons cyclobexane cyclopropane durene indene   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . reycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms . storms (meteorology) . cyclones . hurricanes Anna hurricane typhoons RT anticyclones atmospheric pressure  | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  cyclotron surfaces ion cyclotron radiation plasma resonance  cyclotron resonance devices  DEF Microwave amplifiers based on the interaction between electromagnetic waves and transverse electron streams moving along helical trajectories. Used for gyrotrons.   |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclohexane durene indene naphthalene naphthenes polycyclic aromatic hydrocarbons cyclic hydrocarbons cyclobrane cyclopropane durene indene naphthalene naphthalene chlorocarbons cyclic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclichydrocarbons cyclobutane cyclobutane cyclobutane cyclopropane durene indene menthol   | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . rcycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms (meteorology) . cyclones hurricanes typhoons RT anticyclones atmospheric pressure baroclinic waves   | RT charged particles Larmor precession Larmor radius ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance AT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  cyclotron surfaces ion cyclotron radiation plasma resonance  cyclotron resonance devices  DEF Microwave amplifiers based on the interaction between electromagnetic waves and transverse electron streams moving along helical trajectories. Used for gyrotrons.  |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobvane durene indene naphthalene polycyclic aromatic hydrocarbons hydrocarbons anthracene benzene cyclobvane cyclopropane durene indene naphthalene naphthenes polycyclic aromatic hydrocarbons hydrocarbons cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobvane cyclopropane durene indene indene menthol naphthalene  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . reycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms . storms (meteorology) . cyclones . hurricanes Anna hurricane typhoons RT anticyclones atmospheric pressure  | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance RT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  cyclotron adiation plasma resonance  cyclotron resonance devices  DEF Microwave amplifiers based on the interaction between electromagnetic waves and transverse electron streams moving along helical trajectories. Used for gyrotrons.  UF gyrotrons   |
|                                   | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes cyclobutane cyclobutane cyclopropane durene naphthenes polycyclic aromatic hydrocarbons hydrocarbons anthracene benzene cyclorobane cyclic hydrocarbons cyclorobenzenes cyclopropane cyclopropane durene indene menthol naphthalene naphthenes  | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . cycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms (meteorology) . cyclones hurricanes Anna hurricane typhoons RT anticyclones atmospheric pressure baroclinic waves cyclogenesis  | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . cyclotron resonance . electron cyclotron resonance RT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance  cyclotron resonance  cyclotron electromagnetic waves and transverse electron streams moving along helical trajectories. Used for gyrotrons.  GS amplifiers  |
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| RT<br><b>cyclic I</b><br>SN<br>GS | cyclic compounds cyclic hydrocarbons anthracene benzene chlorobenzenes colchicine cyclobutane cyclobrane durene indene menthol naphthalene polycyclic aromatic hydrocarbons hydrocarbons cyclobrane chlorobenzenes cyclic hydrocarbons cyclic hydrocarbons cyclic hydrocarbons cyclobutane cyclobutane cyclobutane cyclobrane cyclobrane cyclopropane durene indene menthol naphthalene cyclobrane cyclobran | hexenes hydrogenation  cycloids GS geometry . curves (geometry) . cycloids . Euclidean geometry . analytic geometry . analytic geometry . reycloids  cyclones SN (METEOROLOGICALEXCLUDES EQUIPMENT) DEF Areas of low pressure with a close circulation that rotate counterclockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. GS storms . storms . storms (meteorology) . cyclones hurricanes Anna hurricane typhoons RT anticyclones atmospheric pressure baroclinic waves cyclogenesis ground wind low pressure meteorology precipitation (meteorology) storm damage synoptic meteorology tornadoes tropical storms wind (meteorology)  cyclones (equipment) USE centrifuges  cyclopropane GS drugs . anesthetics   | RT charged particles Larmor precession Larmor radius  ∞ radiation  cyclotron resonance  DEF Energy transfer to charged particles in a magnetic field from an alternating-current electric field whose frequency is equal to the cyclotron frequency.  GS resonance . electron cyclotron resonance . electron cyclotron resonance . electron cyclotron resonance RT charged particles diamagnetism energy transfer Fermi surfaces ion cyclotron radiation plasma resonance  cyclotron resonance devices  DEF Microwave amplifiers based on the interaction between electromagnetic waves and transverse electron streams moving along helical trajectories. Used for gyrotrons.  UF gyrotrons GS amplifiers . microwave amplifiers . cyclotron resonance devices electron tubes . vacuum tubes . microwave tubes . cyclotron resonance devices microwave equipment . microwave tubes . cyclotron resonance devices . microwave devices . microwave tubes . cyclotron resonance devices . microwave tubes . cyclotron resonance devices . microwave devices . microwave tubes . cyclotron resonance devices . microwave devices . microwave tubes . cyclotron resonance devices . microwave devices . microwave devices . microwave devices . cyclotron resonance devices . microwave devices . mic |
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| traveling wave tubes  | electric currents causing constriction of            |  |
|---|--|--|
| cyclotrons  | ducting plasma through which a large cur             |  |
| UF calutrons  | flowing.<br>GS particles                             | . <b>cysteine</b><br>organic compounds               |
| GS particle accelerators  | . charged particles                                  | . amino acids  |
| . cyclotrons  | energetic particles                                  | cysteine   |
| geocyclotrons   | plasmas (physics)                                    | sulfur compounds                                     |
| microtrons  | cylindrical plasmas                                  | . thiols   |
| Oak Ridge isochronous cyclotron                                 | . corpuscular radiation                              | cysteine   |
| omegatrons  | . energetic particles                                | RT proteins  |
| synchrocyclotrons   | plasmas (physics)                                    | •  |
| RT synchrotrons   | cylindrical plasmas                                  | cystic fibrosis                                      |
|   | plasma cylinders                                     | GS diseases  |
| Cygnus constellation  | . cylindrical plasmas                                | . fibrosis   |
| GS constellations   | RT pinch effect                                      | cystic fibrosis                                      |
| Cygnus constellation     RT celestial bodies                    |  | RT tissues (biology)                                 |
| celestial sphere  | cylindrical shells                                   | evete  |
| stars   | GS shells (structural forms)                         | cysts<br>GS cysts                                    |
| otaro   | . <b>cylindrical shells</b><br>RT circular cylinders | GS <b>cysts</b><br>. mucoceles                       |
| ∞ cylinders   | circular shells                                      | RT neoplasms   |
| SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | circular tubes                                       | tissues (biology)                                    |
| RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)                   | concentric cylinders                                 | tumors   |
| RT analytic geometry  | ∞ cylinders  |  |
| circular cylinders  | elastic cylinders                                    | cytidylic acid                                       |
| concentric cylinders  | elliptical cylinders                                 | GS acids   |
| cylindrical bodies  | metal shells   | cytidylic acid                                       |
| cylindrical chambers  | orthotropic cylinders                                | organic compounds                                    |
| cylindrical shells  | orthotropic shells                                   | . cyclic compounds                                   |
| ∞ drums   | oscillating cylinders                                | heterocyclic compounds                               |
| drums (containers)  | plasma cylinders                                     | cytidylic acid                                       |
| elastic cylinders   | plastic shells                                       | cytochromes  |
| elliptical cylinders  | reinforced shells                                    | GS biopolymers                                       |
| hemisphere cylinder bodies                                      | rotating cylinders<br>thin walled shells             | . proteins   |
| monocoque structures  | viscoelastic cylinders                               | enzymes  |
| orthotropic cylinders oscillating cylinders                     | viscoelastic cylinders                               | cytochromes  |
| plasma cylinders  | cylindrical tanks                                    | organic compounds                                    |
| rotating cylinders  | GS tanks (containers)                                | . proteins   |
| viscoelastic cylinders  | . cylindrical tanks                                  | . enzymes  |
| viocociacito dymiadro   | RT fuel tanks  | cytochromes  |
| cylindrical afterbodies   | propellant tanks                                     | pigments   |
| USE afterbodies   | storage tanks  | . cytochromes  |
| cylindrical bodies  |  | RT cytogenesis                                       |
|   | cylindrical waves                                    | skin (anatomy)                                       |
| cylindrical antennas  | DEF Waves in which the wave from                     |  |
| GS antennas   | coaxial cylinders.                                   | cytogenesis  |
| . cylindrical antennas  | RT axisymmetric flow                                 | GS cytogenesis                                       |
| RT antenna radiation patterns                                   | elastic waves  | . cell division<br>. differentiation (biology)       |
| radio equipment   | electromagnetic radiation                            | . hematopoiesis                                      |
| cylindrical bodies  | plane waves<br>spherical waves                       | . mitosis  |
| UF cylindrical afterbodies                                      | ∞ waves  | . osteogenesis                                       |
| cylindroids   | ∞ waves  | RT ∞ biology   |
| GS symmetrical bodies   | cylindroids  | cells (biology)                                      |
| . bodies of revolution  | USE cylindrical bodies                               | cytochromes  |
| cylindrical bodies  | •  | cytology   |
| rotating cylinders  | Cyprus   | cytoplasm  |
| RT afterbodies  | GS landforms   |  |
| Airy function   | . islands  | genetics   |
| centerbodies  | Cyprus   | heredity   |
| circular cylinders  | nations  | osteoblasts  |
| ∞ cylinders   | . Cyprus   | physiology   |
| cylindrical coordinates   | RT Greece<br>Mediterranean Sea                       | cytology   |
| elastic cylinders   | Mediterranean Sea                                    | UF cell physiology                                   |
| elliptical cylinders  | Cvrillid meteoroids                                  | RT apoptosis   |
| forebodies<br>fuselages   | GS celestial bodies                                  | biochemistry   |
| hemisphere cylinder bodies                                      | . meteoroid showers                                  | biological diversity                                 |
| orthotropic cylinders   | Cyrillid meteoroids                                  | ∞ biology  |
| oscillating cylinders   | . meteoroids   | blood cell count                                     |
| plasma cylinders  | bolides  | cell membranes (biology)                             |
| plastic bodies  | Cyrillid meteoroids                                  | cells (biology)                                      |
| rollers   | RT natural satellites                                | chromatin  |
| viscoelastic cylinders  | tektites   | chromosomes  |
|   |  | clone cells  |
| cylindrical chambers  | cysteamine   | cytogenesis  |
| RT brakes (for arresting motion)                                | GS drugs   | cytometry  |
| ∞ chambers  | . antiradiation drugs                                | eukaryotes   |
| ∞ cylinders   | cysteamine   | in vitro methods and tests in vivo methods and tests |
| andia dais at a sandinata a                                     | organic compounds                                    |  |
| cylindrical coordinates GS coordinates                          | . amines<br><b>cysteamine</b>                        | lysosomes<br>mitochondria                            |
| . cylindrical coordinates                                       | RT amino acids                                       | mitosis  |
| RT astronomical coordinates                                     | proteins   | monocytes  |
| Cartesian coordinates   | radiation protection                                 | necrosis   |
| cylindrical bodies  |  | nuclei (cytology)                                    |
| -,  | cysteine   | organelles   |
| cylindrical plasmas   | GS acids   | plasmolysis  |
| DEF Magnetic self-attraction of parallel                        | . amino acids  | plastids   |

prokaryotes sarcoplasmic reticulum stem cells tissue engineering

cytometry (added February 1990) UF RT cytophotometry cells (biology) cytology microscopy

cytophotometry
USE cytometry

cytoplasm

RT calmodulin cells (biology) chloroplasts cytogenesis endoplasmic reticulum eosinophils fibroblasts mitosis

neutrophils nuclei (cytology) organelles plastids ribosomes sarcoplasmic reticulum

Czech Republic

(added December 1995) GS nations

. Czech Republic Czechoslovakia Europe Slovakia

Czechoslovakia GS nations

Czechoslovakia Central Europe Czech Republic

Czechoslovakian space program Czechoslovakian spacecraft

Europe

Slovakia

Czechoslovakian space program (added March 1989)

GS programs . space programs

. European space programs ... Czechoslovakian space

program RT Czechoslovakia

Czechoslovakian spacecraft

DEF Spacecraft of Czechosolovakia. RT Czechoslovakia

∞ spacecraft

Czochralski method

GS growth

. crystal growth
. Czochralski method
RT ∞ methodology
Verneuil process

| D layer   | Dalton law                                       | reaction kinetics                                  |
|---|--|--|
| USE <b>D</b> region                                       | DEF The empirical generalization that for        |  |
|   | many so-called perfect gases, a mixture of these |  |
| D lines   | gases will have a pressure equal to the sum of   | DAMP program                                       |
| GS spectra  | the partial pressures that each of the gases     | . •  |
| . radiation spectra                                       | would have as a sole component with the same     | USE Downrange Antimissile                          |
| electromagnetic spectra                                   | volume and temperature, provided there is no     | Measurement Program                                |
| line spectra  | chemical interaction.                            |  |
| D lines   | RT gas composition                               |  |
| RT absorption spectra                                     | gas dynamics                                     |  |
| emission spectra  | gas-gas interactions                             | SN (USE OF A MORE SPECIFIC TERM IS                 |
| H lines   | ideal gas  | RECOMMENDEDCONSULT THE TERMS                       |
| solar spectra   | partial pressure                                 | LISTED BELOW)                                      |
| Solai Speciia   | ·  | RT blankets (fission reactors)                     |
| D. manufactur   | vapor pressure                                   | dampers (valves)                                   |
| D region  | DAMA   | nutation dampers                                   |
| SN (ALTITUDE RANGE BETWEEN<br>APPROXIMATELY 50 AND 90 KM) | DAMA   | oscillation dampers                                |
| UF D layer  | USE demand assignment multiple                   | vibration isolators                                |
| GS Earth atmosphere                                       | access   | VIDIATION ISSUEDIS                                 |
| . upper atmosphere  |  |  |
|   | damage   |  |
| Earth ionosphere  | GS damage  | dampers (valves)                                   |
| lower ionosphere  | . cumulative damage                              | GS valves  |
| D region  | . earthquake damage                              | . butterfly valves                                 |
| regions   | . fire damage                                    | dampers (valves)                                   |
| . D region  | . flood damage                                   | RT automatic control valves                        |
| RT Earth-ionosphere waveguide                             | . frost damage                                   | ∞ dampers  |
|   | . impact damage                                  | gas valves   |
| D-1 satellite   | meteoritic damage                                | vibration isolators                                |
| GS artificial satellites                                  | rain impact damage                               |  |
| . French satellites                                       |  |  |
| D-1 satellite   | . proton damage                                  |  |
|   | . radiation damage                               | damping  |
| D-2 satellites  | laser damage                                     | DEF The suppression of oscillations or dis         |
| UF D-2B satellite   | . storm damage                                   | turbances; the dissipation of energy with time     |
| Polaire satellite   | RT burnthrough (failure)                         | Used for damping factor, damping in pitch          |
| Tournesole satellite                                      | corrosion  | damping in roll, damping in yaw, elastic stability |
|   | damage assessment                                | and jet damping.                                   |
| GS artificial satellites                                  | decay  | UF damping factor                                  |
| . French satellites                                       | decomposition                                    | damping in pitch                                   |
| D-2 satellites  | defects  | damping in roll                                    |
| . meteorological satellites                               | deformation                                      | damping in yaw                                     |
| D-2 satellites  | degradation                                      | elastic stability                                  |
|   | destruction                                      | jet damping  |
| D-2B satellite  | deterioration                                    |  |
| USE D-2 satellites  | discoloration                                    |  |
|   | disintegration                                   | . elastic damping                                  |
| D-558 aircraft  | durability                                       | . viscoelastic damping                             |
| UF Douglas D-558 aircraft                                 | fatigue (biology)                                | . Landau damping                                   |
| Skyrocket aircraft  |  | vibration damping                                  |
| Skystreak aircraft  | fatigue (materials)                              | . viscous damping                                  |
| GS jet aircraft   | fractures (materials)                            | viscoelastic damping                               |
| •   | hot corrosion                                    | . magnetic damping                                 |
| . D-558 aircraft  | immobilization                                   | RT ∞ absorption                                    |
| McDonnell Douglas aircraft                                | impairment                                       | attenuation  |
| . Douglas aircraft  | injuries   | baffles  |
| D-558 aircraft  | lethality  | deceleration                                       |
| monoplanes  | losses   | dissipation  |
| . D-558 aircraft  | radiation effects                                | dynamic characteristics                            |
| research vehicles   | sabotage   | dynamic response                                   |
| . research aircraft                                       | space weathering                                 | dynamic stability                                  |
| D-558 aircraft  | warpage  | energy absorption                                  |
| supersonic aircraft                                       | wear   | gyroscope fluids                                   |
| D-558 aircraft  | weathering                                       |  |
| RT ∞ aircraft   | . <b>J</b>                                       | gyroscopic pendulums<br>gyroscopic stability       |
|   | damage assessment                                |  |
| Dacron (trademark)  | DEF Estimate of injury or loss to compo-         | hysteresis   |
| GS fabrics  | nents, subsystems, or entire systems, as well as | impedance  |
| . Dacron (trademark)                                      | the cost of repairs or replacement to restore    | insulation   |
| fibers  |  | internal friction                                  |
|   | serviceability.                                  | mechanical impedance                               |
| . synthetic fibers  | GS assessments                                   | mufflers   |
| Dacron (trademark)  | damage assessment                                | negative feedback                                  |
| RT polyester resins                                       | RT casts   | oscillations                                       |
| reinforcing fibers  | costs  | ∞ reduction  |
|   | damage   | ∞ resistance                                       |
| Dactyl  | estimates  | resonant frequencies                               |
| USE natural satellites                                    | maintenance                                      | resonant vibration                                 |
|   | recoverability                                   | retarding  |
| DAD Explorer  | replacing  | roll   |
| USE Dual Air Density Explorer                             | spare parts                                      | sea keeping  |
| 7 1   | value  | shock absorbers                                    |
| DAEMO (data analysis)                                     |  |  |
| USE data processing                                       | damaga throshold                                 | silencers  |
|   | damage threshold                                 | stability derivatives                              |
| data reduction  | USE yield point                                  | stopping   |
| data transmission   |  | subharmonic generators                             |
| 5.4   | Damkohler number                                 | suppressors  |
| Dahomey   | RT activation energy                             | time constant                                      |
| USE Benin   | combustion physics                               | transfer functions                                 |
|   | diffusion flames                                 | transient oscillations                             |
| Dakota aircraft   | flame propagation                                | transient response                                 |
| USE C-47 aircraft   | ∞ numbers  | vibration isolators                                |
|   |  |  |

| wave interaction                                       | . dark matter  | aircraft design  |
|--|--|--|
| damping factor   | RT Alpha Magnetic Spectrometer   | drone aircraft   |
| USE damping  | baryons<br>cooling flows (astrophysics)  | flight tests<br>flutter                                      |
| OOL damping  | cosmology  | remotely piloted vehicles                                    |
| damping in pitch                                       | dark energy  | vibration damping  |
| USE damping  | galactic evolution   | vibration damping  |
| pitch (inclination)                                    | galactic halos   | ∞ data   |
|  | intergalactic media  | SN (USE OF A MORE SPECIFIC TERM IS                           |
| damping in roll  | large-scale structure of the universe  | RECOMMENDEDCONSULT THE TERM                                  |
| USE damping  | massive compact halo objects   | LISTED BELOW)<br>RT analog data                              |
| damping in yaw   | missing mass (astrophysics)  | RT analog data<br>audio data                                 |
| USE damping  | neutrinos  | binary data  |
| yaw  | Population III stars   | biomedical data  |
| <b>,</b>   | universe   | censored data (mathematics)                                  |
| damping tests  | weakly interacting massive particles   | channels (data transmission)                                 |
| GS vibration tests                                     | darkening  | control data (computers)                                     |
| damping tests  | GS darkening   | data acquisition   |
| stroking tests   | . limb darkening   | data base management systems                                 |
| RT resonance testing                                   | RT darkness  | data bases   |
| stability tests<br>∞ tests                             | ∞ illumination   | data collection platforms                                    |
| ∞ tests vibration measurement                          | night  | data compression   |
| Vibration measurement                                  | visibility   | data conversion routines<br>data converters                  |
| dampness   | dadaaaa  | data conveners  data correlation                             |
| USE moisture content                                   | darkness<br>RT color   | data links   |
|  | RT color<br>dark adaptation  | data management  |
| dams   | darkening  | data processing  |
| RT ∞ barrages  | diurnal variations   | data processing equipment                                    |
| ∞ barriers   | illuminating   | data processing terminals                                    |
| flood control  | ∞ illumination   | data recorders   |
| hydroelectricity<br>reservoirs                         | light (visible radiation)  | data recording   |
| wharves  | night  | data reduction   |
| Wildives   | night flights (aircraft)   | data retrieval   |
| danger   | optical properties   | data sampling  |
| UŠE <b>hazards</b>                                     | shadows  | data strong  |
|  | zeitgebers   | data storage<br>data systems                                 |
| Danish space program                                   | darkrooms  | data systems<br>data transmission                            |
| (added August 1990)                                    | GS rooms   | datum (elevation)  |
| GS programs  | . darkrooms  | digital data   |
| . space programs                                       | RT photographic processing   | end-to-end data systems                                      |
| European space programs<br><b>Danish space program</b> | photographic processing equipment  | information  |
| RT Denmark   | photography  | interservice data exchange program                           |
| KT Berlinark   |  | ∞ measurement  |
| dark adaptation  | Darkstar unmanned aerial vehicle   | metadata   |
| DEF The process by which the iris and                  | (added August 1998)  | ocean data acquisitions systems                              |
| retina of the eye adjust to allow maximum vision       | USE pilotless aircraft   | onboard data processing                                      |
| in dim illumination, following exposure of the eye     | reconnaissance aircraft  | optical data processing                                      |
| to a relatively brighter illumination.                 | Dart turboprop engines   | optical data storage materials optical memory (data storage) |
| GS adaptation  | USE turboprop engines  | printers (data processing)                                   |
| . retinal adaptation                                   |  | radar data   |
| dark adaptation  | Dash helicopter  | records  |
| RT darkness  | USE QH-50 helicopter   | site data processors   |
| night vision<br>pupillometry                           |  | Space Flight Tracking and Data                               |
| vision   | Dassault aircraft  | Network  |
| visual pigments  | GS Dassault aircraft   | statistical analysis   |
| viouai piginomo  | . Mirage aircraft  | statistical tests  |
| dark current   | Mirage 3 aircraft  | ∞ statistics   |
| (added October 1997)                                   | . Mystere 20 aircraft  | tables (data)  |
| UF electrode dark current                              | . Mystere 50 aircraft<br>RT ∞ aircraft   | video data   |
| GS electric current                                    | itti sa airotatt   | voice data processing  |
| dark current   | Dassault Mirage 3 aircraft   | weather data recorders<br>world data centers                 |
| RT low currents  | USE Mirage 3 aircraft  | world data certiers  |
| photocathodes  | _  | data acquisition   |
| photodiodes<br>photoelectric cells                     | Dassault Mystere 20 aircraft   | GS acquisition   |
| photoelectric cells                                    | USE Mystere 20 aircraft  | . data acquisition   |
| signal to noise ratios                                 | D "M ' 50 ' "  | RT Advanced Range Instrumentation                            |
| signal to hoise fatios                                 | Dassault Mystere 50 aircraft   | Aircraft   |
| dark energy  | USE Mystere 50 aircraft  | Alouette project   |
| (added February 2004)                                  | DAST program   | analog to digital converters                                 |
| DEF A hypothetical form of energy that per-            | SN (DRONES FOR AERODYNAMIC AND   | automatic weather stations                                   |
| meates all of space and is believed to be              | STRUCTURAL TESTING)  | counting   |
| responsible for accelerating the expansion of          | DEF A NASA program which uses the  | ∞ data   |
| the Universe.  | Firebee 2 target drone aircraft as a test bed for  | Deep Space Instrumentation Facility                          |
| RT astrophysics  | getting flight data on research wings. The drone   | detection  |
| cosmology  | is launched from the wing of a B52 and recov-  | Earth observations (from space)                              |
| dark matter  | ered by parachute. The program's purpose is  | end-to-end data systems                                      |
| ∞ energy   | the study of flight loads and load control. Used for drones for aerodynamic and struct test. | forms (paper)<br>Global Tracking Network                     |
| gravitation theory<br>universe                         | UF Drones for Aerodynamic and Struct   | ground stations  |
| universe   | Test   | infrared radiometers   |
| dark matter  | GS programs  | meteorological research aircraft                             |
| GS extraterrestrial matter                             | . NASA programs  | needs (data system)  |
| . interstellar matter                                  | DAST program   | news media   |
| dark matter  | RT aeroelasticity  | observation  |
| matter (physics)                                       | aircraft control   | ocean data acquisitions systems                              |

## data base management systems

optical data processing  $\infty \ routines$ relational data bases optical scanners surveys remote sensors data converters tables (data) GS data converters ∞ sensors virtual memory systems Space Flight Tracking and Data analog to digital converters Network binary to decimal converters STDN (network) decimal to binary converters (added April 2000) surveys digital to analog converters The extraction of patterns from large tables (data) analog circuits data sets in order to discover previously untracking networks analog data known and potentially useful information. computers UF knowledge discovery knowledge extraction data processing conversion tables data adaptive evaluator/monitor ∞ converters USE data processing data mining data reduction decoders information analysis data transmission digital data data mining transducers cluster analysis data analysis video data data retrieval USE data processing machine learning data reduction data correlation trend analysis GS correlation data base management systems data processing

SN (LIMITED TO MECHANICAL OR
ELECTRONIC MANIPULATION OF DATA)
DEF Application of procedures, mechanical,
electrical, computational, or other whereby data
are changed from one form to another. Used for
automatic data processing, DAEMO (data data correlation DEF Software products that control data data processing structures containing interrelated data stored so data correlation as to optimize accessibility and control, miniangular correlation mize redundancy, and offer multiple views of the autocorrelation data to various applications programs. cross correlation RT ∞ data ∞ data analysis), data adaptive evaluator/monitor, and data bases statistical analysis data management statistical correlation data analysis. automatic data processing DAEMO (data analysis) information management UF teleconnections (meteorology) management information systems temperature ratio relational data bases data adaptive evaluator/monitor ∞ systems data analysis data flow analysis data processing computer programs computer systems programs data simulation data bases associative processing (computers) GS data bases . batch processing . censored data (mathematics) data transfer (computers) . knowledge bases (artificial intelligence) . Central Electronic Management flow charts . numerical data bases System network analysis . relational data bases . concurrent processing sequential control . data correlation RT ∞ bases CD-ROM . data reduction data fusion . . data smoothing ∞ data USE multisensor fusion data base management systems . data retrieval data structures data handling systems data storage USE data systems . data transfer (computers) metadata . distributed processing software engineering . . grid computing (computer data integration Taking data from multiple sources and networks) data busses merging the data into a single data file. . Karhunen-Loeve expansion USE channels (data transmission) data management . multiprocessing (computers) data simulation . onboard data processing data collection platforms multisensor fusion optical data processing Argos system . parallel processing (computers) automatic weather stations parallel processing (co
 pipelining (computers)
 scene analysis
 signal analysis
 cepstral analysis data links ∞ data DEF Communications channels or circuits used to transmit data from a sensor to a computer; a readout device or a storage device. ground stations instrument packages integrated global ocean station . . signal processing
. . space-time adaptive processing
. vector processing (computers) telecommunication GS systems data links  $\infty$  platforms channels (data transmission) remote sensors . voice data processing communication networks . . cepstral analysis . data mining ∞ data data compaction decommutators USE data compression discrete address beacon system RT access time frequency reuse adjoints data compression ∞ links airborne/spaceborne computers Any technique used to reduce the networks analog data amount of storage required to store data.

UF data compaction protocol (computers) Atmospheric & Oceanographic Inform radio receivers Sys data compression GS radio relay systems automation . video compression remote consoles binary data RT curve fitting site data processors binary to decimal converters ∞ data telemetry bubble memory devices decoding VSAT (network) channels (data transmission) discrete cosine transform wireless communication computation Fourier analysis telecommunication computer information security data management computer programs telemetry computer systems programs management GS vector quantization data management computers RT ∞ data ∘ data data conversion routines data base management systems data products data conversion routines data integration data structures decimal to binary converters subroutines data simulation algorithms frames (data processing) digital computers digital data compilers information resources management

metadata

on-line systems

records management

editing

editing routines (computers)

end-to-end data systems

computer programs

∞ conversion

∞ data

. . . CDC Cyber 205 computer fixed point arithmetic . . . . . VAX-11/780 computer floating point arithmetic CDC Star 100 computer . . embedded computer systems frames (data processing) . . . airborne/spaceborne computers . . . EAI 680 computer image processing EAI 8400 computer hybrid computers information resources management . . hypercube multiprocessors ... EAI 8900 computer information retrieval . . IBM computers ... EMR 6050 computer information theory . . . IBM 360 computer Ferranti Mercury computer interrogation IBM 370 computer GE computers language programming IBM 650 computer . GE 625 computer mechanization IBM 704 computer ... GE 635 computer IBM 709 computer microprocessors Hewlett-Packard computers natural language (computers) IBM 1130 computer Honeywell computers needs (data system) IBM 1401 computer .... DDP 516 computer IBM 1410 computer on-line systems Honeywell 600/6000 computer peripheral equipment (computers) IBM 1620 computer . . Honeywell ADEPT computer IBM 2250 computer preprocessing Honeywell DDP 116 computer ∞ processing IBM 7030 computer IBM 360 computer protocol (computers) IBM 7040 computer IBM 370 computer RCA computers IBM 7044 computer IBM 650 computer IBM 7070 computer records IBM 704 computer IBM 7074 computer response time (computers) IBM 709 computer . . . IBM 7074 computer
. . . IBM 7090 computer
. . . IBM 7094 computer
. . . IBM personal computers
. . MINOS computer site data processors IBM 1130 computer symbols IBM 1401 computer systems engineering tables (data) IBM 1410 computer IBM 1620 computer IBM 2250 computer optical computers tabulation processes Pegasus computer telecommunication IBM 7030 computer . RCA computers word processing IBM 7040 computer IBM 7044 computer . RCA spectra 70 computer . RCA-110 computers IBM 7070 computer IBM 7074 computer IBM 7090 computer data processing equipment Siemens 2002 computer Machines for handling information in a . . site data processors sequence of reasonable operations. Used for . supercomputers IBM 7094 computer data processors. Connection Machine data processors ICL computers Cray computers GS data processing equipment Illiac computers . . transputers . computers . Illiac 3 computer . . Univac computers . . analog computers . Illiac 4 computer . . Univac 1100 series computers . . . EAI 680 computer . . . microcomputers Univac 1105 computer Honeywell 600/6000 computer . personal computers Univac 1106 computer SIGMA 5 computer . IBM personal computers Univac 1107 computer Univac 1100 series computers Macintosh personal computers . . . . Univac 1108 computer Univac 1105 computer minicomputers Univac 1110 computer Univac 1106 computer . Nova computers Univac 80 computer Univac 1107 computer Modcomp II computer Univac 418 computer Univac 1108 computer Modcomp IV computer Univac 490 computer Univac 1110 computer parallel computers Univac 494 computer CDC computers massively parallel processors Univac 1230 computer . CDC 160-A computer . Connection Machine Univac Larc computer CDC 1604 computer MIMD (computers) . . quantum computers . CDC 3100 computer . SIMD (computers) . data processing terminals
. . VSAT (network) CDC 3200 computer PDP 15 computer . . CDC 3600 computer PDP computers . microprocessors . . PDP 7 computer . . PDP 8 computer CDC 3800 computer . microprocessors
. Intel 8080 microprocessor
. peripheral equipment (computers)
. printers (data processing)
. remote consoles
RT batch processing . CDC 6000 series computers CDC 6400 computer . PDP 9 computer CDC 6600 computer ... PDP 10 computer PDP 11 computer
PDP 11/20 computer CDC 6700 computer CDC 7000 series computers CDC 7000 series computers
. CDC 7600 computer
CDC 8090 computer
CDC Cyber 170 series computer
. CDC Cyber 175 computer
CDC Cyber 74 computer
CDC Cyber 174 computer
CDC Cyber 203 computer
CDC Cyber 205 computer
CDC Star 100 computer computer compatible tapes ... PDP 11/20 computer ... PDP 11/40 computer ... PDP 11/45 computer ... PDP 11/50 computer computer systems simulation control units (computers) data PDP 11/70 computer
PDP 12 computer digital radar systems equipment Philco 2000 computer interfaces Raytheon computers multiprocessing (computers) RCA spectra 70 computer optical data processing SDS 900 series computers CDC Star 100 computer pipelining (computers) . SDS 930 computer SDS 9300 computer counting rate computers printers DDP computers simulation DDP 516 computer SEL computers digital computers sequential computers data processing terminals CDC 160-A computer SIGMA 5 computer data processing equipment CDC 1604 computer SIGMA computers data processing terminals CDC 3100 computer . SIGMA 9 computer . VSAT (network) CDC 3200 computer Solomon computers computer graphics CDC 3600 computer Univac 1100 series computers consoles CDC 3800 computer . Univac 1105 computer ∞ data CDC 6000 series computers Univac 1106 computer human-computer interface . . CDC 6400 computer Univac 1107 computer man machine systems CDC 6600 computer Univac 1108 computer remote consoles CDC 6700 computer Univac 1110 computer ∞ terminals CDC 7000 series computers Univac 80 computer . CDC 7600 computer Univac 418 computer data processors CDC 8090 computer Univac 490 computer USE data processing equipment . CDC Cyber 170 series computers Univac 494 computer . CDC Cyber 175 computer CDC Cyber 74 computer CDC Cyber 174 computer Univac 1230 computer Univac Larc computer data products VAX computers (added June 2005)

. . . . VAX-11 series computers

... CDC Cyber 203 computer

DEF Processed data from the same source,

| normall   | compiled into a set according to shared   | data transfer (computers)  |          | . needs (data system)  |
|---|---|--|----------|--|
| charact   | eristics.   | documentation  | RT       | Atmospheric & Oceanographic Inform   |
| GS  | products  | information management   |          | Sys  |
|   | . data products   | information retrieval  |          | control data (computers)   |
| RT  | Aqua spacecraft   | interservice data exchange program   | ~        | o data   |
| 111   | Aura spacecraft   | libraries  |          | data transfer (computers)  |
|   |   |  |          |  |
|   | CERES (experiment)  | management information systems   |          | digital systems  |
|   | data processing   | microfilms   |          | Earth Resources Information System   |
|   | Earth Observing System (EOS)  | relational data bases  |          | end-to-end data systems  |
|   | image processing  | search profiles  |          | geographic information systems   |
|   | Landsat satellites  | tables (data)  |          | management information systems   |
|   | MISR (radiometry)   | telemetry  | ~        | systems  |
|   | MODIS (radiometry)  | world data centers   |          |  |
|   | remote sensing  |  | data tra | nsfer (computers)  |
|   | remote sensors  | data sampling  |          | The technique used by the hardware   |
|   | satellite imagery   | GS sampling  |          |  |
|   | satellite-borne instruments   | . data sampling  |          | cturer to transmit data from computer to   |
|   | space commercialization   | RT computer systems performance  | 0        | device or from storage device to com-  |
|   | •   | ∞ data   |          | sually under specialized program con-  |
|   | Surface Meteorology and Solar   |  | trol.    |  |
|   | Energy project  | quality control  | GS       | data processing  |
|   | Surface Radiation Budget project  | sampled data systems   |          | data transfer (computers)  |
|   | technology utilization  | telecommunication  | RT       | asynchronous transfer mode   |
|   | Terra spacecraft  | time series analysis   |          | computer programs  |
|   | thematic mapping  |  |          | data flow analysis   |
|   | 5   | data simulation  |          | data retrieval   |
| data re   | adout systems   | DEF The use of statistical or physical mod-  |          |  |
|   | data systems  | els to produce synthetic data for testing pur-   |          | data storage   |
| 002   | display devices   | poses.   |          | data systems   |
|   | display devices   | GS simulation  |          | data transmission  |
| da4a  | corders   |  |          | input/output routines  |
|   |   | . data simulation  |          | interoperability   |
| GS  | data recorders  | RT data flow analysis  |          |  |
|   | . flight recorders  | data integration   |          |  |
|   | flight load recorders   | data management  |          | nsmission  |
|   | . weather data recorders  | -  | UF       | DAEMO (data analysis)  |
| RT  | bubble memory devices   | data smoothing   |          | data adaptive evaluator/monitor  |
|   | bubble technique  | DEF The mathematical process of fitting a  |          | information transmission   |
|   | counters  | smooth curve to dispersed data points.   | GS       | transmission   |
|   |   | GS data processing   |          | . signal transmission  |
| c   | o data  | , ,  |          | data transmission  |
|   | display devices   | . data reduction   |          |  |
|   | monitors  | data smoothing   |          | automatic picture transmission   |
|   | punched cards   | recording  |          | multiple access  |
| c   | o recorders   | . data smoothing   |          | Aloha system   |
|   | recording instruments   | smoothing  |          | carrier sense multiple access  |
|   | tape recorders  | . data smoothing   |          | code division multiple access  |
|   |   |  |          |  |
|   | video disks   | RT curve fitting   |          | demand assignment multiple   |
|   | video disks   | RT curve fitting   |          |  |
| data ro   |   | RT curve fitting<br>∞ data   |          | access   |
|   | cording   | ∞ data   |          | access frequency division multiple   |
|   | cording recording   | ∞ data data storage  |          | access frequency division multiple access  |
| GS  | cording<br>recording<br>. data recording  | ∞ data  data storage  GS data processing   |          | access frequency division multiple access time division multiple access  |
| GS<br>RT  | cording recording . data recording bubble memory devices  | ∞ data  data storage  GS data processing . data storage  |          | access frequency division multiple access time division multiple access packet transmission  |
| GS<br>RT  | cording recording . data recording bubble memory devices  | ∞ data  data storage  GS data processing . data storage  RT bubble memory devices  |          | access frequency division multiple access time division multiple access packet transmission Aloha system   |
| GS<br>RT  | cording recording . data recording bubble memory devices  | ∞ data  data storage  GS data processing . data storage  |          | access frequency division multiple access time division multiple access packet transmission  |
| GS<br>RT  | cording recording . data recording bubble memory devices  | ∞ data  data storage  GS data processing . data storage  RT bubble memory devices  |          | access frequency division multiple access time division multiple access packet transmission Aloha system   |
| GS<br>RT  | cording recording . data recording bubble memory devices data magnetic recording magnetic storage   |  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier  |
| GS<br>RT  | recording recording data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials  | □ data      data storage     □ data processing     □ data storage     □ bubble memory devices     □ buffer storage     □ cards     □ core storage  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control  |
| GS<br>RT  | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording   | ∞ data  data storage  GS data processing . data storage  RT bubble memory devices buffer storage cards core storage  ∞ data  data storage  ∞ data  data storage  ∞ data  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system   |
| GS<br>RT  | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards  | □ data      data storage   | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode  |
| GS<br>RT  | cording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes   | ∞ data  data storage     GS    data processing          . data storage  RT    bubble memory devices     buffer storage     cards     core storage      ∞ data     data transfer (computers)     document storage   | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data   |
| GS<br>RT  | cording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads   | odata  data storage     GS data processing         . data storage  RT bubble memory devices buffer storage cards     core storage     odata data transfer (computers)     document storage     flip-flops  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request  |
| GS<br>RT  | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records   |  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios  |
| GS<br>RT  | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data)  | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission)   |
| GS<br>RT  | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes  | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage data data transfer (computers) document storage flip-flops holography information management interservice data exchange program  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing  |
| GS<br>RT  | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data)  | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission)   |
| GS<br>RT  | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks   | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage data data transfer (computers) document storage flip-flops holography information management interservice data exchange program  | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory  |
| GS<br>RT  | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes  | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems   | RT       | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding   |
| GS<br>RT<br>°   | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks   | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microfilms  |          | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory  |
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| GS<br>RT<br>c<br>data re<br>DEF<br>into used for                    | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks duction Transformation of observed values stul, ordered, or simplified information. TDAEMO (data analysis), data adaptive   | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microfilms microphotographs optical data storage materials optical disks  |          | access frequency division multiple access time division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory concatenated codes data data transfer (computers) Deep Space Instrumentation Facility  |
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| data re DEF into usi Used fo evaluate (data re UF GS                | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks  duction  Transformation of observed values seful, ordered, or simplified information. To DAEMO (data analysis), data adaptive bor/monitor, data analysis, and TARE duction).  DAEMO (data analysis) data adaptive evaluator/monitor data analysis TARE (data reduction) data processing . data reduction . data smoothing computation edata editing preprocessing reduction   | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microphotographs optical data storage materials optical disks punched cards selective dissemination of information storage video disks virtual memory systems white light holography world data centers  data structures  DEF The organization of computer memory used to represent information in a computer program or database.  RT computer programming data bases  |          | access frequency division multiple access time division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory concatenated codes data data transfer (computers) Deep Space Instrumentation Facility electronic mail FM/PM (modulation) frequency division multiplexing information theory intersymbolic interference laser applications local area networks modems multiplexing packet switching packets (communication) protocol (computers) pulse communication radio telemetry  |
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| data re DEF into use Used for evaluate (data re UF                  | recording recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks  duction  Transformation of observed values strul, ordered, or simplified information. To DAEMO (data analysis), data adaptive or/monitor, data analysis, and TARE duction).  DAEMO (data analysis) data adaptive evaluator/monitor data analysis TARE (data reduction) data processing data reduction . data smoothing computation data editing preprocessing reduction tables (data)  trieval data processing   | data storage  GS data processing data storage  RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microphotographs optical data storage materials optical disks punched cards selective dissemination of information  storage video disks virtual memory systems white light holography world data centers  data structures  DEF The organization of computer memory used to represent information in a computer program or database.  RT computer programming data bases data processing knowledge based systems structured programming  |          | access frequency division multiple access time division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory concatenated codes data data transfer (computers) Deep Space Instrumentation Facility electronic mail FM/PM (modulation) frequency division multiplexing information theory intersymbolic interference laser applications local area networks modems multiplexing packet switching packets (communication) protocol (computers) pulse communication radio telemetry radio transmission reading redundancy encoding satellite transmission  |
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| data re DEF into usi Used fo evaluati (data re GS RT                | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks  duction  Transformation of observed values eful, ordered, or simplified information. To AEMO (data analysis), data adaptive or/monitor, data analysis) data adaptive evaluator/monitor data analysis  TARE (data reduction) data processing . data reduction . data smoothing computation catale diting preprocessing reduction tables (data)  trieval  data retrieval retrieval  | data storage GS data processing data storage RT bubble memory devices buffer storage cards core storage data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microfilms microphotographs optical data storage materials optical disks punched cards selective dissemination of information  storage video disks virtual memory systems white light holography world data centers  data structures  DEF The organization of computer memory used to represent information in a computer program or database.  RT computer programming data bases data processing knowledge based systems structured programming  data systems  UF data handling systems  |          | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory concatenated codes data data transfer (computers) Deep Space Instrumentation Facility electronic mail FM/PM (modulation) frequency division multiplexing information theory intersymbolic interference laser applications local area networks modems multiplexing packet switching packets (communication) protocol (computers) pulse communication radio telemetry radio transmission reading redundancy encoding satellite transmission ship to shore communication TDR satellites   |
| data re DEF into usi Used fo evaluate (data re UF GS RT             | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks  duction Transformation of observed values eful, ordered, or simplified information. The DAEMO (data analysis), data adaptive formonitor, data analysis, and TARE duction).  DAEMO (data analysis) data adaptive evaluator/monitor data analysis TARE (data reduction) data processing data reduction . data smoothing computation data editing preprocessing reduction tables (data)  trieval data retrieval data retrieval data retrieval data retrieval data retrieval data retrieval | data storage GS data processing data storage RT bubble memory devices buffer storage cards core storage  data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microfilms microphotographs optical data storage materials optical data storage materials optical disks punched cards selective dissemination of information  storage video disks virtual memory systems white light holography world data centers  data structures  DEF The organization of computer memory used to represent information in a computer program or database.  RT computer programming data bases data processing knowledge based systems structured programming  data systems  UF data handling systems data readout systems |          | access frequency division multiple access time division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory concatenated codes data data transfer (computers) Deep Space Instrumentation Facility electronic mail FM/PM (modulation) frequency division multiplexing information theory intersymbolic interference laser applications local area networks modems multiplexing packet switching packets (communication) protocol (computers) pulse communication radio telemetry radio transmission reading redundancy encoding satellite transmission ship to shore communication TDR satellites telecommunication |
| data re DEF into usi Used fo evaluate (data re UF GS RT             | recording recording . data recording bubble memory devices data magnetic recording magnetic storage optical data storage materials photographic recording punched cards punched tapes recording heads records tables (data) tabulation processes video disks  duction  Transformation of observed values eful, ordered, or simplified information. To AEMO (data analysis), data adaptive or/monitor, data analysis) data adaptive evaluator/monitor data analysis  TARE (data reduction) data processing . data reduction . data smoothing computation catale diting preprocessing reduction tables (data)  trieval  data retrieval retrieval  | data storage GS data processing data storage RT bubble memory devices buffer storage cards core storage data data transfer (computers) document storage flip-flops holography information management interservice data exchange program magnetic storage management information systems microfilms microphotographs optical data storage materials optical disks punched cards selective dissemination of information  storage video disks virtual memory systems white light holography world data centers  data structures  DEF The organization of computer memory used to represent information in a computer program or database.  RT computer programming data bases data processing knowledge based systems structured programming  data systems  UF data handling systems  |          | access frequency division multiple access time division multiple access packet transmission Aloha system single channel per carrier transmission access control Argos system asynchronous transfer mode audio data automatic repeat request carrier to noise ratios channels (data transmission) code division multiplexing coding communication theory concatenated codes data data transfer (computers) Deep Space Instrumentation Facility electronic mail FM/PM (modulation) frequency division multiplexing information theory intersymbolic interference laser applications local area networks modems multiplexing packet switching packets (communication) protocol (computers) pulse communication radio telemetry radio transmission reading redundancy encoding satellite transmission ship to shore communication TDR satellites   |

|          | transmission rate (communications)                          | tunable lasers                                     | UF direct        | current generators                    |
|----------|---|--|------------------|---------------------------------------|
|          | video data  | tanasis lassis                                     |                  | generators                            |
|          | VSAT (network)  | DBS (satellites)                                   |                  | t power generators                    |
|          | wireless communication                                      | USE direct broadcast satellites                    |                  | generators                            |
|          |   | DC 3 aircraft                                      |                  | mopolar generators                    |
| data vis | ualization  | UF Douglas DC-3 aircraft                           | RT ∞ genera      |                                       |
| USE      | scientific visualization                                    | GS commercial aircraft                             | rotating         | g generators                          |
| 002      |   | . DC 3 aircraft                                    | DCT (mathema     | tics)                                 |
|          |   | McDonnell Douglas aircraft                         |                  | te cosine transform                   |
| dating   |   | . Douglas aircraft                                 | 002 4.00.0       |                                       |
| USE      | chronology  | DC 3 aircraft                                      | DDP 516 comp     | outer                                 |
|          | time measurement  | monoplanes   | GS data p        | rocessing equipment                   |
|          |   | . DC 3 aircraft                                    | . comp           |                                       |
| datum (  | (elevation)   | transport aircraft                                 |                  | computers                             |
| RT       | clearances  | . cargo aircraft                                   |                  | OP 516 computer                       |
|          | contours  | <b>DC 3 aircraft</b><br>RT ∞ aircraft              |                  | tal computers                         |
| 0        | o data  | KT ∞ allClaft                                      |                  | oneywell computers ODP 516 computer   |
|          | elevation angle   | DC 7 aircraft                                      |                  | DI 310 computer                       |
|          | hypsography   | UF Douglas DC-7 aircraft                           | DDP computer     | s                                     |
|          | leveling  | GS commercial aircraft                             | GS data p        | rocessing equipment                   |
|          | maps<br>surveys   | . DC 7 aircraft                                    | . comp           | outers                                |
|          | Surveys   | McDonnell Douglas aircraft                         |                  | P computers                           |
|          |   | . Douglas aircraft                                 |                  | OP 516 computer                       |
| dawn c   |   | DC 7 aircraft                                      | RT digital       | computers                             |
| UF       | chorus (dawn phenomenon)                                    | monoplanes   | DDT              |                                       |
| 00       | chorus phenomenon   | . DC 7 aircraft                                    |                  | rodiphenyltrichloroethane             |
| GS       | atmospheric radiation                                       | transport aircraft . cargo aircraft                |                  | en compounds                          |
|          | . dawn chorus   | DC 7 aircraft                                      | 9                | ine compounds                         |
|          | electromagnetic interference . radio frequency interference | RT ∞ aircraft                                      | DD               |                                       |
|          | electromagnetic noise                                       | passenger aircraft                                 | poison           |                                       |
|          | atmospherics  | paccongo: anorait                                  | . pesti          |                                       |
|          | ionospherics  | DC 8 aircraft                                      | inse             | ecticides                             |
|          | dawn chorus   | UF Douglas DC-8 aircraft                           | DI               | ΣT                                    |
| RT       | auroras   | GS commercial aircraft                             | to Booking or    |                                       |
|          | magnetic storms   | DC 8 aircraft                                      | de Broglie way   |                                       |
|          | whistlers   | jet aircraft                                       | GS wavele        |                                       |
|          |   | . turbofan aircraft                                |                  | roglie wavelengths<br>ntary particles |
| dawsor   | nite  | <b>DC 8 aircraft</b><br>McDonnell Douglas aircraft | mass             | italy particles                       |
| DEF      | A mineral consisting of aluminum so-                        | . Douglas aircraft                                 | mome             | ntum                                  |
|          | rbonate.  | DC 8 aircraft                                      |                  | s constant                            |
| GS       | minerals  | monoplanes   |                  | ım theory                             |
|          | . dawsonite   | . DC 8 aircraft                                    | velocit          |                                       |
| RT       | aluminum  | passenger aircraft                                 | Wentz            | el-Kramer-Brillouin method            |
|          | sodium  | . DC 8 aircraft                                    |                  | _                                     |
|          | sodium carbonates   | transport aircraft                                 | de Havilland a   |                                       |
|          |   | . DC 8 aircraft                                    |                  | villand aircraft                      |
| dayglov  | .,  | RT ∞ aircraft                                      |                  | et 4 aircraft                         |
| GS       | atmospheric radiation                                       | DC 0 circust                                       |                  | 12 aircraft<br>15 aircraft            |
| 00       | . sky radiation   | DC 9 aircraft UF Douglas DC-9 aircraft             |                  | 21 aircraft                           |
|          | dayglow   | GS commercial aircraft                             |                  | 25 aircraft                           |
|          | electromagnetic radiation                                   | . DC 9 aircraft                                    |                  | 2 aircraft                            |
|          | . light (visible radiation)                                 | jet aircraft                                       |                  | 4 aircraft                            |
|          | sky radiation   | . DC 9 aircraft                                    |                  | 5 aircraft                            |
|          | dayglow   | McDonnell Douglas aircraft                         | RT ∞ aircraf     | t                                     |
| RT       | glare   | . Douglas aircraft                                 |                  |                                       |
|          | light sources   | DC 9 aircraft                                      | de Havilland Di  |                                       |
|          | sky   | transport aircraft                                 | USE Come         | 4 aircraft                            |
|          | solar radiation<br>twilight glow                            | . DC 9 aircraft                                    | de Havilland Di  | 4 112 aircraft                        |
|          | ultraviolet radiation                                       | RT ∞ aircraft                                      | USE DH 11        |                                       |
|          | ultraviolet radiation                                       | MD 80 aircraft                                     | 002 5            | z un orun                             |
|          |   | DC 10 aircraft                                     | de Havilland DI  | ∃ 115 aircraft                        |
| daytime  |   | GS commercial aircraft                             | USE <b>DH 11</b> | 5 aircraft                            |
| RT       | diurnal variations  | . DC 10 aircraft                                   |                  |                                       |
|          | evening   | iet aircraft                                       | de Havilland DI  |                                       |
|          | morning   | . DC 10 aircraft                                   | USE DH 12        | 1 aircraft                            |
|          | night   | McDonnell Douglas aircraft                         | de Havilland Di  | 4 125 aircraft                        |
|          | noon  | . Douglas aircraft                                 | USE DH 12        |                                       |
|          | sky brightness  | DC 10 aircraft                                     | 002 511 12       | o un orun                             |
|          |   | . Mcdonnell aircraft                               | de Havilland DI  | HC 4 aircraft                         |
| DBR las  | sers  | DC 10 aircraft                                     | USE DHC 4        | aircraft                              |
| (adde    | ed November 1991)   | passenger aircraft                                 |                  |                                       |
| UF       | distributed Bragg reflector lasers                          | . <b>DC 10 aircraft</b><br>transport aircraft      | de Havilland DI  |                                       |
| GS       | electronic equipment  | . DC 10 aircraft                                   | USE DHC 5        | airCraft                              |
|          | . solid state devices                                       | RT ∞ aircraft                                      | de Havilland Ve  | enom aircraft                         |
|          | solid state lasers  | turbofan engines                                   | USE <b>DH 11</b> |                                       |
|          | DBR lasers  | a.zolan ongino                                     | 00L DII II       |                                       |
|          | stimulated emission devices                                 | DC 11 aircraft                                     | de Laval nozzle  |                                       |
|          | . lasers solid state lasers                                 | USE MD 11 aircraft                                 | USE conve        | rgent-divergent nozzles               |
|          | DBR lasers  | DO (   |                  |                                       |
| RT       | Bragg angle   | DC (current)                                       | deacclimatizatio |                                       |
| 13.1     | Bragg reflectors  | USE direct current                                 | USE acclin       | iatization                            |
|          | distributed feedback lasers                                 | DC generators                                      | deactivation     |                                       |
|          | semiconductor lasers  | (added July 1991)                                  | UF inactiv       | ation                                 |
|          |   | - · · · · · · · · · · · · · · · · · · ·            |                  |                                       |

| RT       | activation  | RT     | plasmas (physics)   |                     | surface navigation                            |
|----------|---|--------|---|---------------------|---|
|          | passivity   | 5.4    |   |                     |   |
|          | polarization (charge separation)                    |        | temperature<br>specific heat  | deceler             | ration The act or process of moving, or cause |
|          | polarization (spin alignment) sabotage              | USE    | specific fleat  |                     | e, with decreasing speed.                     |
|          | shutdowns   | Debye  | -Huckel theory  | GS                  | rates (per time)                              |
|          |   | RT     | dissociation  |                     | . acceleration (physics)                      |
|          | ckoning   |        | electrolytes  |                     | deceleration                                  |
|          | In navigation, determination of position            |        | plasma potentials<br>∞ theories   | DT                  | spin reduction                                |
|          | ancing a previous known position for and distances. |        | w theories  | RT                  | angular acceleration braking                  |
| GS       | navigation  | Debye  | -Scherrer method  |                     | damping                                       |
|          | . dead reckoning                                    | ŔŢ     | crystallography   |                     | impact  |
| RT       | air navigation                                      |        | diffraction   |                     | impact acceleration                           |
|          | digital navigation                                  |        | ∞ methodology   |                     | landing loads                                 |
|          | Doppler navigation inertial navigation              | decam  | netric waves  | ٥                   | physiological acceleration                    |
|          | polar navigation                                    | GS     | electromagnetic radiation   |                     | retarding                                     |
|          | radar navigation                                    |        | . radio waves   |                     | retrofiring                                   |
|          | radio navigation                                    | RT     | decametric waves coronal holes  |                     | retrothrust                                   |
|          | surface navigation                                  | IXI    | high frequencies  |                     | stopping<br>tapering                          |
| deadwe   | iaht  |        | very high frequencies   |                     | thrust reversal                               |
|          | static loads  |        |   |                     |   |
|          |   |        | oonation  | deceler             |   |
| deafnes  |   | GS     | chemical reactions . decarbonation  | USE                 | brakes (for arresting motion)                 |
| USE      | auditory defects                                    | RT     |   | decepti             | ion   |
| death    |   |        |   | RT                  | air defense                                   |
| RT       | apoptosis   |        | poxylation  |                     | chaff   |
| • • • •  | casualties  | GS     |   |                     | electronic countermeasures                    |
|          | expiration  | RT     | . decarboxylation carboxylation   |                     | electronic warfare                            |
|          | injuries  | 111    | Carboxylation   |                     | optical countermeasures simulation            |
|          | life span<br>mortality                              | decarl | purization  |                     | Sirialation                                   |
|          | necrosis  | RT     |   |                     | ous trees                                     |
|          |   |        | carburizing   | GS                  | plants (botany)                               |
| Death V  | alley (CA)  |        | heating<br>metal working  |                     | . trees (plants) deciduous trees              |
| GS       | landforms   |        | motal working   | RT                  | conifers                                      |
|          | . Death Valley (CA) valleys                         | decay  |   |                     | Earth resources                               |
|          | . Death Valley (CA)                                 | DEF    |   |                     | foliage                                       |
| RT       | arid lands  |        | se of nuclear emission of alpha or beta es, positrons, or gamma rays.       |                     | forests                                       |
|          | California  | GS     |   |                     | leaves timber identification                  |
|          | desertification                                     |        | . particle decay  |                     | timber identification                         |
|          | deserts<br>river basins                             |        | neutron decay   | decima              | I to binary converters                        |
|          | Tiver pasiris                                       |        | . plasma decay  | GS                  | data converters                               |
| Debona   | ir aircraft   |        | . radioactive decay   | DT                  | . decimal to binary converters                |
| USE      | C-33 aircraft                                       |        | alpha decay neutron emission  | RT                  | binary data<br>binary to decimal converters   |
|          |   |        | . spacecraft glow   |                     | computer components                           |
|          | ing (materials)                                     |        | weak energy interactions  |                     | data processing                               |
| SN       | ed July 1992)<br>(LIMITED TO THE SEPARATION OF      | DT     | weak interactions (field theory)  |                     |   |
| 011      | BONDED MATERIALS; NOT TO BE USED                    | RT     |   | <b>decima</b><br>RT |   |
|          | FOR THE BREAKUP OF<br>ATOMIC/MOLECULAR BONDS)       |        | biodegradability<br>biodegradation  | IXI                 | digits<br>number theory                       |
| RT       | anodic stripping                                    |        | damage  | ۰                   | ∘ numbers                                     |
|          | bonding   |        | degradation   |                     |   |
|          | delaminating fiber composites                       |        | deterioration   |                     | ter waves                                     |
|          | fiber pushout                                       |        | disintegration emission   | GS                  | electromagnetic radiation . radio waves       |
|          | laminates   |        | gamma rays  |                     | short wave radiation                          |
|          | matrix materials                                    |        | half life   |                     | microwaves                                    |
|          | peeling   |        | hot atoms   |                     | decimeter waves                               |
| ~        | reinforcing fibers<br>separation                    |        | nuclear fission   | RT                  | millimeter waves                              |
|          | Coparation  |        | radiative lifetime  |                     | planetary radiation solar radio emission      |
| debris   |   | decay  | rates   |                     | ultrahigh frequencies                         |
| GS       | debris  | GŚ     | rates (per time)  |                     |   |
| DT       | . space debris                                      |        | decay rates   | decisior            |   |
| RT       | ejecta<br>environment effects                       |        | electron decay rate   |                     | ed October 1997) decision support systems     |
|          | fragments   | Decca  | navigation  | USL                 | decision support systems                      |
|          | glacial drift                                       |        | A long range, ambiguous, two dimen-   | decision            | n elements                                    |
|          | pollution   |        | navigation system using continuous wave                                     | USE                 | logical elements                              |
| ~        | radioactive debris                                  |        | ission to provide hyperbolic lines of posi-                                 |                     |   |
|          | scrap<br>wastes                                     |        | ough the radio frequency phase compari-<br>chniques from four transmitters. | RT                  | n making cognition                            |
|          |   | GS     |   | 111                 | command and control                           |
| debuggi  |   |        | . radio navigation  |                     | contract management                           |
| USE      | checkout  |        | hyperbolic navigation   |                     | contract negotiation                          |
| Dobyes ! | ongth   | DT     | Decca navigation  |                     | decision support systems                      |
| Debye I  | A theoretical length which describes                | RT     | distance measuring equipment<br>loran                                       |                     | decisions<br>economy                          |
|          | imum separation at which a given elec-              |        | loran C   |                     | judgments                                     |
|          | be influenced by the electric field of a            |        | loran D   |                     | management                                    |
|          | ositive ion.  |        | navigation aids   |                     | management methods                            |
| GS       | distance<br>Debye longth                            |        | Shoran  |                     | management planning                           |
|          | . Debye length                                      |        | solar compasses   |                     | problem solving                               |

Starsite program demodulation RT antihistaminics systems engineering dictionaries tradeoffs decontamination ∞ interpretation translating decontamination decision support systems . spacecraft sterilization Viterbi decoders (added October 1997) air purification decision aids antiseptics decommissioning information systems carbon dioxide concentration Disposal or deactivation of equipment decision support systems carbon dioxide removal or sites whose usefulness has diminished to a support systems cleaning point where it is no longer required for its original decision support systems contaminants purpose. artificial intelligence contamination RT radioactive wastes computer techniques dewaxing underground storage decision making disposal expert systems dissipation decommutators knowledge based systems DEF Equipment for separation, demodula-tion, or demultiplexing commutated signals. GS commutators elimination pilot support systems environmental cleanup problem solving ethylene oxide situational awareness exhausting decommutators extensions data links decision theory ∞ food demodulators decision theory planetary protection GS differential pulse code modulation . statistical decision theory pollution electric motors dynamic programming purging purification αenerators expectation pulse code modulation game theory purity telemetry information theory ∞ reduction martingales ∞ separation mathematical models decomposition spacecraft contamination GS decomposition operations research sterilization probability theory . ammonolysis sterilization effects . cracking (chemical engineering) recommendations washing . . hydrocracking risk . pyrolysis scheduling decoupling glycolysis statistical analysis GS decoupling . hydrogenolysis . spin decoupling coupling stochastic processes . . hydrocracking strategy nitrolysis ∞ synthesis disconnect devices . photodecomposition systems engineering gravitinos photodissociation ∞ theories releasing photolysis . propellant decomposition decisions decoys radiolysis  $RT \, \infty \, commands$ GS decoys . thermal decomposition ballistic missile decoys contract management decision making . . pyrolysis . Blue Goose missile ablation . quail missile judgments biodegradability logic circuits reentry decoys biodegradation management countermeasures charring procurement policy dummies damage project planning degradation selection decrementing deterioration USE reduction disintegration decks (floors) dissociation deduction USE floors electrolysis derivation RT laterites inference overvoltage Angular distance north or south of the storage stability deep drawing bulging thermal dissociation cold drawing cold working decompression explosive forming USE pressure reduction magnetic forming mapping

## declination

celestial equator; the arc of an hour circle between the celestial equator and a point on the celestial sphere, measured northward or southward from the celestial equator through 90 degrees, and labeled N or S to indicate the direction of measurement.

RT navigation

### decoders

Devices for translating electrical signals into predetermined functions. In computer operations, networks or devices in which one of two or more possible outputs results from a prescribed combination of inputs.

decoders GS Viterbi decoders BCH codes coders data converters decoding demodulators Reed-Solomon codes ∞ translators

## decoding

coding GS decoding BCH codes concatenated codes cryptography data compression decoders

## decompression sickness

DEF A disorder experienced by deep sea divers and aviators caused by reduced atmospheric pressure and evolved gas bubbles in the body, marked by pain in the extremities, pain in the chest (chokes), occasionally leading to severe central nervous system symptoms and neurocirculatory collapse. Used for bends (physiology).

bends (physiology) GS sicknesses decompression sickness RT aeroembolism altitude sickness barotrauma diving (underwater)

## deconditioning

GS

RT

ÚF

behavior deconditioning learning reflexes

## decongestants

GS drugs

. decongestants

metal working stretching

### **Deep Impact Mission**

(added July 2005)

Flyby mission designed to observe the collision of a solid impactor with comet Tempel 1. The mission consists of a flyby spacecraft, which releases a guided impactor. The flyby spacecraft is equipped with two telescopes, the High Resolution Instrument, and the Medium Resolution Instrument, for imaging and spectroscopy of the collision and its effects.

space missions . flyby missions . Deep Impact Mission cometary collisions comets hypervelocity impact hypervelocity projectiles projectile cratering space probes Tempel 1 comet

## deep scattering layers

RT acoustic scattering echo soundina

∞ layers RT waste disposal . . Fleet Satellite Communication oceanography System organisms deep-sea hydrothermal vents RT communication satellites scattering (added April 2005) ∞ defense USE submarine hydrothermal vents sound waves radio relay systems underwater acoustics space communication deepwater terminals ∞ svstems RT artificial harbors deep space cargo ships defense communications system (DCS) GS environments marine technology GS networks . aerospace environments marine transportation . defense communications system .. deep space oceanography (DCS) ... interplanetary space offshore docking telecommunication . . . interstellar space offshore energy sources . defense communications system extraterrestrial environments offshore platforms (DCS) . . deep space RT communication networks ∞ ports ... interplanetary space ship terminals ∞ defense . . interstellar space tanker ships military technology RT cislunar space tanker terminals ∞ systems frictionless environments ∞ tankers long duration space flight terminal facilities defense industry ∞ space transportation GS industries . defense industry Deep Space 1 Mission deer . weapons industry (added October 1998) GS animals RT antimissile defense DEF First of several technology demonstra-. vertebrates ∞ defense tion missions supporting the NASA New Millen-. . mammals military technology nium Program. Advanced technologies include . . . deer missile defense an ion propulsion system, solar concentrator . . . . caribous arrays, autonomous navigation and control sysgrazing Defense Meteorological Satellite Program tems, an integrated camera and imaging speclivestock USE DMSP satellites trometer, and several telecommunications and microelectronics devices. The mission plan includes a flyby of Asteroid 1992 KD.

UF DS1 (space mission) defects defense program flaws GS programs imperfections defense program space missions
. Deep Space 1 Mission GS defects air defense . auditory defects antimissile defense asteroid missions . crystal defects armed forces (United States) autonomous navigation . . crystal dislocations civil defense flyby missions . . . édge dislocations ∞ defense interplanetary spacecraft . screw dislocations DMSP satellites ion propulsion . . point defects military technology NASA space programs . . . vacancies (crystal defects) missile defense solar electric propulsion . . . . Frenkel defects space transportation system antisite defects weapons delivery hyperopiainclusions **Deep Space Instrumentation Facility** DSIF (instrumentation facility) definition . speech defects . surface defects castings GS stations RT accuracy . ground stations delineation Deep Space Instrumentation descriptions cavities Facility dictionaries . tracking stations
. Deep Space Instrumentation cracks ∞ measurement cumulative damage nomenclatures damage Facility precision inhomogeneity data acquisition resolution irregularities data transmission leakage radio control deflagration pinholes A sudden or rapid burning, as opposed porosity to a detonation or explosion. Deep Space Network scoring combustion A communications network managed vignetting deflagration by the Jet Propulsion Laboratory for command backfire and control of all planetary flights. x ray analysis fires DSN (space network) flashback GS networks Defender project . communication networks GS programs deflating . Deep Space Network . projects USE inflatable structures . tracking networks . Defender project pressure reduction . Deep Space Network RT spacecraft tracking ∞ defense deflection (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN bending deep water bending diagrams GS water air defense camber deep water antimissile defense deformation ocean bottom civil defense diffraction oceanography Defense Communications Satellite dispersing oceans displacement System defense communications system distortion submarine hydrothermal vents (DCS) elastic deformation defense industry flexing Maxwell-Mohr method deep well injection (wastes) defense program DEF Storage of liquid wastes, particularly DMSP satellites reflection chlorohydrocarbons, by injection into subsurmissile defense refraction face geologic strata for long term isolation from physiological defenses scattering the environment. structural strain GS injection **Defense Communications Satellite System** temperature inversions telecommunication . fluid injection torsion . Defense Communications Satellite . . liquid injection variations

System

wave dispersion

... deep well injection (wastes)

|             | yokes                                    |        | distortion   |        | rotating matter                             |
|-------------|--|--------|--|--------|---|
| -1 - 61 6 - |  |        | elongation   |        | stellar cores                               |
| deflecto    | Plates, baffles, or the like that divert |        | failure<br>flexing   |        | stellar evolution<br>stellar mass           |
|             | ng in its movement or flow.              |        | fractures (materials)  |        | supermassive stars                          |
|             | deflectors                               |        | indentation  |        | white dwarf stars                           |
|             | . blast deflectors                       |        | kinking  |        |   |
|             | . flame deflectors                       |        | mechanical properties  | degene |   |
| RT          | attenuators                              |        | Portevin-le Chatelier effect   | RT     | atrophy                                     |
|             | baffles<br>diffusers                     |        | set  |        | deterioration<br>negative feedback          |
|             | diverters                                |        | skewness<br>stiffness  |        | negative reeuback                           |
|             | flow deflection                          |        | strain distribution  | degene | rative feedback                             |
|             | gust alleviators                         |        | structural failure   | ŬŠE    | negative feedback                           |
|             | reflectors                               |        | structural strain  |        |   |
|             | safety devices                           |        | temperature inversions   | degrad |   |
|             | shielding                                |        | topology   | DEF    | Gradual deterioration in performance.       |
|             | spoilers                                 |        | torsion  | GS     | degradation . biodegradation                |
| defluori    | nation                                   |        | twisting volumetric strain   |        | . thermal degradation                       |
|             | chemical reactions                       |        | warpage  |        | . wave degradation                          |
|             | defluorination                           |        | wrinkling  | RT     | chemical attack                             |
| RT          | fluorination                             |        |  |        | corrosion                                   |
|             | halogenation                             | deforn |  |        | cumulative damage                           |
|             | •  | GS     | measuring instruments  |        | curing                                      |
| defocus     | •  |        | deformeters  |        | damage                                      |
| GS          | focusing                                 | RT     | deformation  |        | decay                                       |
| DT.         | . defocusing                             |        | dimensional measurement  |        | decomposition                               |
| KI «        | optics                                   |        | extensometers  |        | depolymerization deterioration              |
| defoliar    | nts                                      |        | mechanical measurement   |        | discoloration                               |
| RT          | defoliation                              |        | strain gages<br>stress measurement   |        | durability                                  |
|             | foliage                                  |        | tensometers  |        | embrittlement                               |
|             | forests                                  |        | toricomotoro   |        | erosion                                     |
|             | herbicides                               | defros | ting   |        | hot corrosion                               |
|             | leaves                                   | RT     | deicing  |        | oxidation                                   |
|             | plants (botany)                          |        | heating  |        | pitting                                     |
|             | trees (plants)                           |        | ice prevention   |        | preserving                                  |
|             | •  |        | melting  |        | rusting                                     |
| defoliat    |  |        | refrigerating  |        | scale (corrosion)                           |
| RT          | brush (botany)                           |        | refrigerators  |        | sterilization effects                       |
|             | defoliants<br>deforestation              | degas  | sina   |        | thermal dissociation                        |
|             | forests                                  | DEF    |  |        | weathering                                  |
|             | grasses                                  |        | al, usually by application of heat under   | dearee | s of freedom                                |
|             | leaves                                   |        | acuum. Used for bakeout.   |        | A mode of motion, either angular or         |
|             | plants (botany)                          | UF     |  |        | with respect to a coordinate system,        |
|             | trees (plants)                           | GS     | degassing  |        | ident of any other mode. A body in          |
|             | ,  |        | . deoxygenation  |        | has six possible degrees of freedom,        |
| defores     |  | RT     | absorbers (equipment)  |        | near and three angular.                     |
| RT          | biological diversity                     |        | aeration   | RT     | equipartition theorem                       |
|             | biomass burning                          |        | baking   |        | experiment design                           |
|             | clearings (openings)                     |        | castings   |        | factor analysis                             |
|             | conservation defoliation                 |        | deoxidizing  |        | null hypothesis                             |
|             | environment effects                      |        | desorption gas evolution   |        | phase rule                                  |
|             | forests                                  |        |  |        | quality control                             |
|             | 1010313                                  |        | occlusion offgassing   |        | significance<br>three dimensional motion    |
| deforma     | able mirrors                             |        | outgassing   |        | torquers                                    |
| (adde       | ed May 1998)                             |        | purging  | c      | ∞ variance                                  |
|             | mirrors                                  |        | scavenging   |        |   |
|             | . deformable mirrors                     |        | ∞ separation   | DEHP   |   |
| RT          | adaptive optics                          |        |  | USE    | diethyl hydrogen phosphite (DEHP)           |
|             | light modulation                         |        | erate matter   |        |   |
|             | phase modulation                         |        | A state of matter found in white dwarf   |        | idification                                 |
|             | segmented mirrors                        |        | and other ultrahigh-density objects in   | DEF    | The reduction, by any process, of the       |
| deforma     | ation                                    |        | he electrons follow Fermi-Dirac statistics, e matter reaches a density high enough | GS     | of water vapor within a given space. drying |
| DEF         | A change in the shape or size of a solid |        | the pressure increases more and more   | GS     | . dehumidification                          |
| body.       | A change in the shape of size of a solid |        | to the point where it becomes indepen-   | RT     | condensing                                  |
| GS          | deformation                              |        | the temperature and is a function of the   | IXI    | cooling systems                             |
|             | . axial strain                           |        | only, thereby departing from the classi-   |        | dehydration                                 |
|             | . elastic deformation                    |        | s of physics.  |        | diffusion                                   |
|             | elastic bending                          | GS     |  |        | humidity                                    |
|             | elastic buckling                         |        | . degenerate matter  |        | refrigerating                               |
|             | . nuclear deformation                    | RT     | antimatter   | c      | ∞ separation                                |
|             | . plastic deformation                    |        | astrophysics   |        | silica gel                                  |
|             | . static deformation                     |        | black holes (astronomy)  |        |   |
|             | . tensile deformation                    |        | cosmic gases   | -      | ated food                                   |
| D.T.        | . wave front deformation                 |        | critical pressure  | RT     | consumables (spacecrew supplies)            |
| RT          | bending                                  |        | density (mass/volume)  |        | dehydration                                 |
|             | buckling                                 |        | extraterrestrial matter  |        | drying apparatus<br>∞ food                  |
|             | camber collapse                          |        | Fermi-Dirac statistics high pressure   | c      | ∞ lood<br>food processing                   |
|             | corrugating                              |        | massive stars  |        | freeze drying                               |
|             | creep properties                         |        | naked singularities  |        | preserving                                  |
|             | damage                                   |        | neutron stars  |        | space flight feeding                        |
|             | deflection                               |        | nuclear fusion   |        | -,g   |
|             | deformeters                              |        | ∞ physics  | dehydr | ation                                       |
|             | displacement                             |        | pulsars  | -      | drying                                      |
|             |  |        |  |        |   |

| . dehydration   | softening   | Delft camera   |
|---|---|--|
| RT columns (process engineering) dehumidification                                       | dekatrons   | delineation  |
| dehydrated food   | USE counters  | RT boundaries  |
| dewatering  |   | definition   |
| evaporation   | delaminating  | ∞ profiles   |
| freeze drying   | RT anodic stripping debonding (materials)   | delivery   |
| hydration<br>plasmolysis  | interlaminar stress   | delivery<br>GS delivery  |
| ∞ separation  | peeling   | . payload delivery (STS)   |
| silica gel  | ∞ separation  | . weapons delivery   |
| thermogravimetry  | Dolowara  | RT air drop operations   |
| water loss  | Delaware GS nations   | airdrops   |
|   | . United States   | cargo<br>circulation   |
| dehydrogenases  | . Delaware  | hauling  |
| (added June 2004)   | RT Delaware River Basin (US)  | materials handling   |
| DEF Class of oxidoreductase enzymes that catalyze the transfer of hydrogen atoms from a | Delmarva Peninsula (DE-MD-VA)   | output   |
| substrate to an acceptor other than oxygen.   | Delaware Bay (US)   | ∞ receiving  |
| GS biopolymers  | GS bays (topographic features)  | transportation<br>trucks   |
| . proteins  | . Delaware Bay (US)   | liucks   |
| enzymes   | RT Atlantic Ocean   | Delmarva Peninsula (DE-MD-VA)  |
| dehydrogenases  | gulfs   | GS landforms   |
| organic compounds<br>. proteins   | inlets (topography)<br>New Jersey   | . peninsulas   |
| enzymes   | Pennsylvania  | <b>Delmarva Peninsula (DE-MD-VA)</b><br>RT Delaware                                  |
| dehydrogenases  | •   | Maryland   |
| RT oxidase  | Delaware River Basin (US)   | Virginia   |
|   | GS landforms  | -  |
| dehydrogenation   | . structural basins river basins  | Delphi method (forecasting)  |
| GS chemical reactions   | Delaware River Basin (US)   | GS management methods  |
| . dehydrogenation   | RT Delaware   | . Delphi method (forecasting) predictions  |
| RT columns (process engineering) hydroforming   | New Jersey  | . forecasting  |
| hydrogenation   | New York  | technological forecasting  |
| hydrogenolysis  | Pennsylvania<br>rivers  | Delphi method (forecasting)  |
| oxidation   | streams   | RT estimating  |
| reduction (chemistry)   | valleys   | ∞ methodology<br>operations research   |
|   |   | pattern method (forecasting)   |
| deicers   | delay<br>RT dwell   | planning   |
| UF deicing systems  | ∞ holding   | probe method (forecasting)   |
| RT aircraft icing airfoils  | lateness  | profile method (forecasting)   |
| antiicing additives   | stopping  | technology assessment  |
| deicing   | time lag  | Delrin (trademark)   |
| ∞ heaters   | ∞ time response   | GS plastics  |
| heating equipment   | transmission rate (communications)  | . Delrin (trademark)   |
| ice prevention  | delay circuits  | RT resins  |
| 1.4.4   | GS circuits   | Delta 3 launch vehicle   |
| deicing  RT aircraft icing  | . delay circuits  | (added October 1998)   |
| RT aircraft icing airfoils  | phantastrons RT acoustic delay lines  | GS launch vehicles   |
| antiicing additives   | RT acoustic delay lines circulators (phase shift circuits)                        | . Delta launch vehicle   |
| defrosting  | comparator circuits   | Delta 3 launch vehicle   |
| deicers   | phase shift circuits  | Delta 4 Heavy launch vehicle   |
| ∞ heaters   | dolay lines   | (added September 2005)   |
| heating equipment ice prevention  | delay lines<br>GS delay lines   | DEF Member of the Boeing Delta 4 family of   |
| melting   | . acoustic delay lines  | launch vehicles designed to launch heavy pay-  |
| •   | . delay lines (computer storage)  | loads (~28,124 pounds) into geosynchronous   |
| deicing systems   | RT ∞ lines  | transfer orbit (GTO) using three common booster cores (CBCs). The first stage CBC is |
| USE deicers   | time lag  | powered by the RS-68 engine; the two second  |
|   | delay lines (computer storage)  | stages are powered by the RL10B-2 engine with  |
| Deimos  | DEF In electronic computers, devices for  | two sizes of expanded fuel and oxidizer tanks.                                       |
| DEF A satellite of Mars orbiting at a mean  | producing a time delay of a signal.   | GS launch vehicles . Delta launch vehicle  |
| distance of 23,500 kilometers.  | GS computer components  | Delta 4 Heavy launch vehicle   |
| GS celestial bodies   | <ul><li>computer storage devices</li><li>delay lines (computer storage)</li></ul> | . heavy lift launch vehicles   |
| . natural satellites<br>Mars satellites   | delay lines (computer storage)  | Delta 4 Heavy launch vehicle   |
| Deimos  | . delay lines (computer storage)  | RT booster rocket engines  |
| RT Charon   | RT shift registers  | Delta 4 launch vehicle   |
| Mars (planet)   | deletion  | liquid propellant rocket engines<br>rocket launching                                 |
| Nozomi Mars Orbiter   | GS elimination  | spacecraft launching   |
| Phobos  | . deletion  | -,   |
|   | RT disposal   | Delta 4 launch vehicle   |
| deionization  | removal   | (added October 1998)   |
| DEF The removal of ions from a solution by ion exchange.                                | Dolfin aircraft   | GS launch vehicles . Delta launch vehicle  |
| GS chemical reactions   | Delfin aircraft USE L-29 jet trainer  | . Delta 4 launch vehicle   |
| . deionization  | jet danier  | RT Delta 4 Heavy launch vehicle  |
| RT atomic recombination   | Delft camera  | •  |
| demineralizing  | GS optical equipment  | delta antennas   |
| exchanging ion recombination  | . cameras<br><b>Delft camera</b>  | GS antennas<br>. delta antennas  |
| radiative recombination   | photographic equipment  | RT antenna design  |
| ∞ separation  | . cameras   | resonators   |
|   |   |  |

|          | transmission lines                           |         | . signal encoding   |          | softening  |
|----------|--|---------|---|----------|--|
|          |  |         | pulse modulation  |          | water treatment  |
| Delta C  |  |         | pulse code modulation   | -        | " D  |
|          | ed September 1994)                           |         | delta modulation  |          | ratic Peoples Republic of Korea  |
| GS       | launch vehicles                              |         | modulation  | USE      | North Korea  |
|          | . reusable launch vehicles                   |         | . pulse modulation  | Damas    | ratia Banublia of Canaa  |
|          | single stage to orbit vehicles               |         | pulse code modulation   |          | ratic Republic of Congo<br>(REPLACED THE TERM "ZAIRE" IN 1997;                 |
|          | Delta Clipper                                | рт      | delta modulation  | SN       | ALL OLDER RECORDS HAVE BEEN  |
|          | reentry vehicles                             | RT      | pulse communication   |          | UPDATED WITH THE NEW FORM OF THE   |
|          | . recoverable spacecraft reusable spacecraft | delta w | inge  | UF       | TERM)  |
|          | single stage to orbit vehicles               |         | Triangularly shaped wings of aircraft.  | UF       | Belgian Congo  |
|          | Delta Clipper                                |         | r triangular wings.   |          | Congo (Kinshasa)<br>Zaire  |
| RT       | aerospace planes                             | UF      | triangular wings.<br>triangular wings   | GS       | nations  |
|          | liquid propellant rocket engines             | GS      | airfoils  | 00       | . Democratic Republic of Congo   |
|          | space transportation                         |         | . wings   | RT       | Africa   |
|          | .,   |         | low aspect ratio wings  |          | 7 11100  |
| Delta D  | agger aircraft                               |         | delta wings   | demod    | ulation  |
| USE      | F-102 aircraft                               |         | swept wings   | RT       | amplitude modulation   |
|          |  |         | sweptback wings   |          | decoding   |
|          | art aircraft                                 |         | delta wings   |          | demodulators   |
| USE      | F-106 aircraft                               |         | planforms   | c        | detectors  |
|          |  |         | . wing planforms  |          | frequency modulation   |
| delta fu |  |         | sweptback wings   |          | heterodyning   |
| GS       | analysis (mathematics)                       |         | delta wings   |          | intermodulation  |
|          | . real variables                             | RT      | arrow wings   |          | modulation   |
|          | delta function                               |         | AVRO 707 aircraft   |          | phase modulation   |
|          | functions (mathematics)  delta function      |         | caret wings   |          | pulse modulation   |
|          | . della function                             |         | FD 2 aircraft   |          | remodulation   |
| Dolta Ia | unch vehicle                                 |         | GA-5 aircraft   |          | telecommunication  |
| GS       | launch vehicles                              |         | variable sweep wings  | da 1     | ulatora  |
| 00       | . Delta launch vehicle                       |         | VATOL aircraft  | demod    |  |
|          | Delta 3 launch vehicle                       |         | waveriders  |          | Electronic devices which operate on<br>t of a modulated carrier to recover the |
|          | Delta 4 Heavy launch vehicle                 |         | wing rock   |          |  |
|          | . Delta 4 launch vehicle                     | deltas  |   |          | ting wave as an output.  |
| RT       | Anik 1                                       | GS      | landforms   | GS       | demodulators . frequency compression   |
|          | Anik 2                                       | 63      | . deltas  |          | demodulators   |
|          | Anik satellites                              |         | Mississippi Delta (LA)  |          | . modems   |
|          | Beacon Explorer A                            |         | Rhone Delta (France)  |          | . phase demodulators   |
|          | ESSA 1 satellite                             | RT      | alluvium  |          | . phase lock demodulators  |
|          | ESSA 2 satellite                             | 131     | fans (landforms)  | RT       | amplitude modulation   |
|          | ESSA 3 satellite                             |         | rivers  | 111      | decoders   |
|          | ESSA 4 satellite                             |         | sands   |          | decommutators  |
|          | ESSA 5 satellite                             |         | soils   |          | demodulation   |
|          | ESSA 6 satellite                             |         | 00.10   |          | frequency modulation   |
|          | ESSA 7 satellite                             | demagr  | netization  |          | matched filters  |
|          | ESSA 8 satellite                             | -       | The reduction of residual magnetism to  |          | modulation   |
|          | ESSA 9 satellite                             |         | ptable level.   |          | modulators   |
|          | Explorer 10 satellite                        | RT      | magnetic fields   |          | phase modulation   |
|          | Explorer 12 satellite                        | 0       | o reduction   |          | pulse modulation   |
|          | Explorer 14 satellite                        |         |   |          |  |
|          | Explorer 15 satellite                        | demand  | d (economics)   | demog    | raphy  |
|          | Explorer 17 satellite                        | GS      | economics   | DEF      | Statistical study of human populations,  |
|          | Explorer 18 satellite                        |         | demand (economics)  |          | Ily with reference to size, density, distri-                                   |
|          | Explorer 21 satellite                        | RT      | consumption   | ,        | and vital data.  |
|          | Explorer 26 satellite                        |         | supplying   | RT       | adults   |
|          | Explorer 28 satellite                        |         |   |          | census   |
|          | Explorer 29 satellite                        |         | d assignment multiple access  |          | communities  |
|          | Explorer 32 satellite Explorer 33 satellite  |         | A technique of assigning communica-<br>ources on an "as needed basis" such as |          | ∘ density  |
|          | •  |         | ite communications. Used for DAMA.  | c        | odistribution  |
|          | Explorer 38 satellite Explorer 43 satellite  | UF      | DAMA  |          | human beings   |
|          | Explorer 49 satellite                        | GS      | telecommunication   |          | inhabitants<br>megalopolises   |
|          | Explorer 55 satellite                        | 00      | . multiple access   |          |  |
|          | International Magnetospheric Explorer        |         | demand assignment multiple  |          | nations<br>sociology   |
|          | OSO-1  |         | access  |          | ∘ statistics   |
|          | OSO-2  |         | transmission  | Ŭ        | ~ statistics   |
|          | OSO-4  |         | . signal transmission   | demons   | stration   |
|          | OSO-C  |         | data transmission   |          | proving  |
|          | outer planets explorers                      |         | multiple access   |          |  |
|          | Pioneer 6 space probe                        |         | demand assignment multiple  | demult   | iplexing   |
|          | Pioneer 7 space probe                        |         | access  |          | Separation of two or more signals that   |
|          | RCA Satcom satellites                        | RT      | channel capacity  | were pr  | eviously combined by a compatible mul-   |
|          | Space Shuttle upper stage D                  |         | communication networks  | tiplexer | and transmitted over a single channel.   |
|          | SYNCOM 1 satellite                           |         | communication satellites  | GS       | transmission   |
|          | SYNCOM 2 satellite                           |         | satellite networks  |          | . demultiplexing   |
|          | SYNCOM 3 satellite                           |         |   | RT       | code division multiplexing   |
|          | TIROS 2 satellite                            | demine  |   |          | frequency division multiplexing  |
|          | TIROS 3 satellite                            | GS      | demineralizing  |          | multiplexing   |
|          | TIROS 4 satellite                            | D.T.    | . bone demineralization   |          | time division multiplexing   |
|          | TIROS 5 satellite                            | RT      | crystallization   |          | wavelength division multiplexing   |
|          | TIROS 6 satellite                            |         | deionization  | do:+     | ration (higher transport   |
|          | TIROS 7 satellite                            |         | desalinization<br>distillation  |          | ation (biopolymers) biopolymer denaturation                                    |
|          | TIROS 8 satellite TIROS 9 satellite          |         | ion exchanging  | USE      | Diopolymer denaturation  |
|          | TIROS 9 satellite TIROS 10 satellite         |         | osmosis   | dendrir  | ners   |
|          | TINOS TO SALEIIILE                           |         | purification  |          | ed October 2000)   |
| delta m  | odulation                                    |         | reverse osmosis   |          | A class of polymeric macromolecules  |
| GS       | coding                                       | ~       | separation  |          | erized by a regular highly-branched mo-  |
|          | · · · · <del>·</del> <del>·</del>            |         | 1   | J        | ,  |

lecular architecture resembling a spherical starburst, and a synthesis process that permits nearly complete control over critical molecular design parameters, such as size, shape, surface/interior chemistry, flexibility, and topology. Because of these characteristics, dendrimers are seen as important elements in the manufacture of nanoscale materials and devices.

dendritic polymers hyperbranched polymers

molecules

. macromolecules

. dendrimers

conducting polymers dendritic crystals

nanostructure (characteristics)

organometallic polymers

∞ polvmers synthetic metals

#### dendrites

(added August 2004)

DEF Extensions of the nerve cell body. They are short and branched and receive stimuli from other neurons.

cells (biology) GS

. neurons

. dendrites

nerves RT

nervous system

#### dendritic crystals

GS crystals

dendritic crystals

dendrimers isotropy needles

whiskers (crystals)

dendritic drainage

USE drainage patterns

dendritic polymers (added October 2000) USE dendrimers

### dendrochronology

DEF The use of annual growth rings in plant tissue to determine the age of the plant or tree.

Used for tree ring dating.

UF tree ring dating climatology RT geochronology periodic variations timberline trees (plants)

## denitrogenation

chemical reactions GS

denitrogenation

RT nitration

## Denmark

GS nations

## Denmark

RT Danish space program

Europe Greenland Scandinavia

## dense plasmas

GS particles

. charged particles

. . energetic particles

... plasmas (physics)

. . . dense plasmas

. . . . . plasma focus .... strongly coupled plasmas

. corpuscular radiation

. . energetic particles

. . . plasmas (physics)

.... dense plasmas

. . . . plasma focus

. . . . strongly coupled plasmas

astrophysics beta factor

electron scattering

high temperature plasmas nuclear fusion

particle collisions

plasma compression spheromaks stellar structure

## densification

GS pressure

densification

agglomeration

chemical vapor infiltration

compacting compressing consolidation Ludox (trademark)

pressurizing

#### densimeters

Instruments for measuring the density or specific gravity of liquids, gases, or solids.

measuring instruments

. densimeters

. ultrasonic densimeters density (mass/volume)

density measurement ∞ instruments

∞ measurement

#### densitometers

Instruments for the measurement of optical density (photographic transmission, photographic reflection, visual transmission, etc.) of a material, generally of a photographic image.

measuring instruments

. densitometers

. . microdensitometers

gamma ray absorptiometry

gravimeters optical equipment

optical measurement

optical measuring instruments

photometers

photon absorptiometry

transmissometers

#### ∞ density

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

atmospheric density RT atom concentration

biomass

demography density (mass/volume)

density (number/volume) flux density

optical density porosity

Rankine-Hugoniot relation

## density (mass/volume)

DEF The mass per unit volume of a material at a specified temperature.

UF specific gravity

#### GS density (mass/volume)

atmospheric density

gas density space density

RT absorptance

absorptivity

bulk modulus

buoyancy

compressibility

degenerate matter

densimeters

density measurement

hydrometers internal friction isopycnic processes

Lewis numbers opacity permeability

physical properties porosity

pycnometers stopping power transmissivity transmittance

transparence ultrasonic densimeters

viscosity

void ratio

weight measurement

## density (number/volume)

GS density (number/volume)

. meteoroid concentration

. packing density . particle density (concentration)

.. electron density (concentration)

... carrier density (solid state)

. . . electron density profiles

ionospheric electron density

. . . magnetospheric electron density

. . electron distribution

... electron density profiles

... ion density (concentration) ... ionospheric ion density

... magnetospheric ion density

. . . . magnetospheric proton density

. . . proton density (concentration)

.... magnetospheric proton density

. . plasma density

space density RT atmospheric density

density

density (rate/area) USE flux density

# density distribution

baroclinic waves Fokker-Planck equation

Maxwell-Boltzmann density function

shock discontinuity Taylor instability

## density functional theory

(added February 2007)

DEF A quantum mechanical method used in physics and chemistry to investigate the electronic structure of many-body systems, in particular molecules and the condensed phases.

atomic structure

electron density (concentration) electron distribution electron states

electronic structure

ground state Hartree approximation

many body problem quantum mechanics

 ∞ theories wave functions

density measurement GS

density measurement . gamma ray absorptiometry

. photon absorptiometry

x ray density measurement chemical analysis

densimeters density (mass/volume)

hydrometers ∞ measurement

mechanical measurement ultrasonic densimeters wind tunnel tests

# density wave model

GS models

. astronomical models

. . density wave model galactic structure mass distribution spiral galaxies

wave equations

# dental calculi

dentistry

GS deposits

. calculi

. dental calculi lithiasis teeth

tooth diseases

medical science GS . dentistry

medical equipment oral hygiene

|             |   |         |   |              | at the state of th |
|-------------|---|---------|---|--------------|--|
|             | teeth   | c       | • automation                                |              | thermophoresis   |
|             | tooth diseases  |         | cybernetics                                 |              |  |
| المادميناما | I=I==   |         | detachment                                  | deposi       | ts   |
| deoxidi     | •   |         | disorders                                   | SN           | (EXCLUDES BANK MINERAL AND   |
| GS          |   |         | man machine systems                         |              | GEOLOGICAL DEPOSITS)   |
|             | . reduction (chemistry)                                   |         | mechanization                               | GS           | deposits   |
|             | . deoxidizing   |         | personality                                 |              | . calculi  |
| RT          | degassing   |         | personnel                                   |              | dental calculi   |
| 0           | deoxification   |         |   |              | . cryodeposits   |
|             | deoxygenation   | depleti | on  | RT           | 0  |
|             | scavenging  | GS      | depletion                                   |              | corrosion  |
|             |   |         | . ozone depletion                           |              | crude oil  |
| deoxifi     |   | RT      | consumption                                 |              | deposition   |
| SN          | (USE OF A MORE SPECIFIC TERM IS                           |         | depreciation                                |              | plating  |
|             | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                |         | dissipation                                 |              | sediments  |
| RT          | deoxidizing   |         | elimination                                 |              | sludge   |
|             | deoxygenation   |         | energy policy                               |              | -  |
|             | sterilization effects                                     |         | exhaustion                                  | deprec       | iation   |
|             | otoriii Editori oriooto                                   |         | exploitation                                | RT           | depletion  |
| deoxyd      | enation   |         | life (durability)                           | 17.1         | deterioration  |
|             | degassing   |         | losses                                      |              |  |
|             | . deoxygenation   | c       | • reduction                                 |              | investments  |
| RT          | deoxidizing   |         | removal                                     |              | life (durability)  |
|             | deoxification   |         | resources                                   |              | wear   |
|             | ∘ decomination<br>∞ reduction                             |         | utilization                                 |              |  |
|             |   |         | dilization                                  | depres       | sants  |
| 0           | ∞ separation  | donlow  | mont  | GS           | depressants  |
| deovyr      | ibonucleic acid   | deploy  |   |              | . central nervous system depressants   |
|             | The molecule that encodes genetic                         | RT      | game theory                                 | RT           | anesthesiology   |
|             | tiion - a double-stranded moleculeeld                     |         | logistics                                   |              | 0,   |
|             |   |         | military operations                         |              | -1   |
|             | r by weak bonds betweeen base pairs of                    |         | military technology                         | ∞ depres     |  |
|             | ides. Used for DNA.                                       | c       | operations                                  | SN           | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   |
| UF          | DNA   |         | personnel                                   |              | LISTED BELOW)  |
|             | recombinant DNA   |         | strategy                                    | RT           | detachment   |
| GS          | acids   |         | tactics                                     |              | disorders  |
|             | . nucleic acids   |         |   |              | emotions   |
|             | deoxyribonucleic acid                                     | depolar | rization                                    | c            | ∞ hollow   |
|             | complementary DNA   | SN      | (EXCLUDES CONSIDERATION OF                  |              | introversion   |
|             | biopolymers   |         | OPTICAL DEPOLARIZATION AND                  |              | lethargy   |
|             | . nucleic acids   | חרר     | PARTICLE SPIN DISALIGNMENT)                 |              | low pressure   |
|             | deoxyribonucleic acid                                     |         | A decrease in the polarization of an        |              | neurotic depression  |
|             | complementary DNA   |         | le at a specified current density. Used for |              | psychotic depression   |
|             | organic compounds   | depolar |   |              | recession  |
|             | . nucleic acids   | UF      | depolarizers                                |              |  |
|             | deoxyribonucleic acid                                     | RT      | electrolytic polarization                   |              | schizophrenia  |
|             | complementary DNA   |         | electrophysiology                           |              | tectonics  |
| RT          | adenosine monophosphate                                   |         | polarization (charge separation)            |              | topography   |
|             | apoptosis   | c       | ∘ reduction                                 |              |  |
|             | chromatin   |         | spike potentials                            | depress      | sions (topography)   |
|             | cloning (biology)   |         |   |              | structural basins  |
|             |   | depolar | izers                                       |              |  |
|             | gene expression   | ÚSE     | depolarization                              | donuos       | o visation   |
|             | gene therapy  |         |   |              | surization   |
|             | genes   | denolvi | merization                                  | USE          | pressure reduction   |
|             | genome  | GS GS   | chemical reactions                          |              |  |
|             | mutagenesis   | 00      | . depolymerization                          | depriva      | ation  |
|             | plasmids  | PT      | degradation                                 | GS           | deprivation  |
|             | polymerase chain reaction                                 | 13.1    | deterioration                               |              | . sensory deprivation  |
|             | thymidine   |         | polymerization                              |              | sleep deprivation  |
|             | thymine   |         | polymenzation                               |              | . water deprivation  |
|             | transcription (genetics)                                  | donos!  | i.a.m                                       | RT           | confining  |
|             |   | deposit |   |              | isolation  |
| depend      |   | UF      | accretion                                   |              | stress (biology)   |
| UF          |   | GS      | deposition                                  |              | stress (physiology)  |
| GS          | dependence  |         | . anodizing                                 |              | 3,7  |
|             | . spatial dependencies                                    |         | electrodeposition                           | ما 4 مد ما ا |  |
|             | . temperature dependence                                  |         | electroplating                              | depth        | dimensions   |
|             | . time dependence   |         | electroless deposition                      | GS           | dimensions   |
| RT          | group dynamics  |         | . laser deposition                          |              | depth  |
|             | sociology   |         | pulsed laser deposition                     | RT           | distance   |
|             |   |         | . vapor deposition                          |              | height   |
| depend      | lency   |         | metalorganic chemical vapor                 |              | thickness  |
| ÜSE         | dependence  |         | deposition                                  |              |  |
|             | -   |         | vacuum deposition                           | depth r      | measurement  |
| depend      | lent variables  | RT      | accumulations                               | RT           |  |
| DEF         | Variables considered as a function of                     |         | coagulation                                 |              | core sampling  |
| other va    | ariables, the latter being called indepen-                |         | coating                                     |              | distance measuring equipment   |
| dent.       |   |         | coatings                                    |              | echo sounding  |
| GS          | analysis (mathematics)                                    |         | deposits                                    | c            | ∞ measurement  |
|             | dependent variables                                       |         | electroforming                              |              | mechanical measurement   |
| RT          | complex variables   |         | electron bombardment                        |              | sounding   |
|             | independent variables                                     |         | forming techniques                          |              | coanding   |
|             | observability (systems)                                   |         | fouling                                     |              |  |
|             | parameterization  |         | magnetron sputtering                        |              | perception   |
|             | real variables  |         | metal coatings                              | USE          | space perception   |
| ^           | variables<br>∞ variable                                   |         | plating                                     |              |  |
| 0           | - variable  |         | precipitation (chemistry)                   | derivat      | ion  |
| donors      | onalization   |         | sediments                                   | RT           | deduction  |
|             |   |         |   |              | ∞ induction  |
| KI          | artificial intelligence                                   |         |   |              |  |
|             | artificial intelligence                                   | c       | o separation                                |              |  |
|             | artificial intelligence automata theory automatic control | c       | separation<br>settling<br>sputtering        |              | ∞ origins parameterization   |

 $\infty$  sources representations . . desiccators derivation calculus descriptive geometry ∞ design USE differential calculus aeometry (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . Euclidean geometry LISTED BELOW) . descriptive geometry dermatitis tailoring diseases analytic geometry GS aerodynamic configurations infectious diseases engineering drawings aircraft design ... dermatitis layouts amplifier design ∞ projection . . contact dermatitis antenna design bacterial diseases projective geometry computer aided design dermatology toruses computer design fungal diseases computer systems design itching desensitizing construction corrosion prevention radiation hazards control systems design radiation sickness protective coatings design analysis skin (anatomy) rusting design optimization design to cost dimensions desert adaptation dermatology GS medical science GS adaptation drafting machines . dermatology desert adaptation engine design engineering drawings contact dermatitis survival dermatitis equipment specifications skin (anatomy) desertification estimating The formation of a desert or the experiment design gradual expansion of a desertline into previously desalinization factorial design demineralizing usable land, due to man-made or natural RT functional design specifications distillation causes. helicopter design RT arid lands osmosis **IPAD** purification barren land layouts reverse osmosis Death Valley (CA) lens design desertline salinity logic design vaporizing deserts missile design water treatment drought nozzle design Earth environment optimization desaturation Gobi desert planning land RT drying plant design ∞ saturation land use pressure vessel design man environment interactions product development descaling RT chemical cleaning Mojave Desert (CA) reactor design oases reliability remote sensing research Sahara Desert (Africa) metal finishing research and development steppes pickling (metallurgy) rocket engine design scale (corrosion) wadis satellite design ∞ separation shape optimization desertline shot peening spacecraft design arid lands structural design climatology descent structural design criteria desertification GS descent ∞ svnthesis . parachute descent land systems engineering RT topography approach ascent design analysis flight paths deserts RT ∞ analyzing GS land alidina control systems design . deserts ∞ design uncontrolled reentry (spacecraft) Gobi desert design optimization logic design Libyan desert descent propulsion systems Mojave Desert (CA) maintainability Sahara Desert (Africa) GS propulsion multidisciplinary design optimization arid lands descent propulsion systems optimization barren land propulsion system configurations reliability descent propulsion systems climatology reliability analysis Coachella Valley (CA) RT spacecraft propulsion reverse engineering ∞ systems Death Valley (CA) safety factors desertification sensitivity analysis dunes descent trajectories shape optimization Earth resources GS trajectories Taguchi methods Imperial Valley (CA) descent trajectories value engineering Kalahari Basin (Africa) . reentry trajectories oases ascent trajectories Palo Verde Valley (CA) design of experiments atmospheric entry playas USE experiment design ballistic trajectories remote regions coasting flight Salton Sea (CA) falling design optimization topography flight mechanics (added February 2001) wilderness manned reentry GS optimization midcourse trajectories . design optimization missile trajectories desiccants . shape optimization Chemicals used to absorb moisture. parabolic flight DFF RT aircraft design RT absorbents computer aided design reentry guidance adsorbents ∞ design spacecraft trajectories design analysis terminal guidance desiccation evolvable hardware USE drying genetic algorithms sensitivity analysis descriptions structural analysis characterization desiccators RT

GS

separators

. drying apparatus

structural design

structural design criteria

definition

nomenclatures

systems engineering wear tests targets tracking (position) desulfurizing warning design to cost chemical reactions DEF A process whereby cost factors are determined and calculated for the life cycle of a GS warning systems desulfurizing flue gases product as an integral part of its design. ∞ detectors refining RT concurrent engineering (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN roasting cost analysis costs desynchronization (biology) DEF Sensors or instruments employing a ∞ design The loss of synchronization between life cycle costs sensor. two or more rhythms so that they show indepenproduction costs RT aircraft detection dent periods. analyzers biological effects GS anticoincidence detectors desorption desynchronization (biology) DEF The process of removing sorbed gas. RT ∞ absorption autodynes DEF disorientation character recognition desynchronization (biology) adsorption degassing correlation detection psychological effects demodulation desynchronization (biology) detection evolution (liberation) display devices mischmetal physiological responses FLIR detectors outgassing rhythm (biology) forest fire detection permeating zeitgebers gas detectors ∞ separation hazards sublimation desynchronized sleep helmet mounted displays USE rapid eye movement state indicating instruments despinning
USE spin reduction infrared detectors detachment instrument receivers DEF A particular state of isolation in which laser target designators destabilization man is separated or detached from his accuslife detectors spin reduction tomed behavioral environment by inordinate RT measuring instruments tumbling motion physical and psychological distances. This conmine detectors dition may compromise his performance. monitors anxiety **Destiny Laboratory Module** multispectral linear arrays boredom (added February 2001) phase detectors depersonalization DEF Component of the International Space radiation detectors ∞ depression Station providing equipment and support sysradiation measuring instruments disorders tems for research and technology development. readers disorientation Also provides support and control for the US receivers emotional factors segment of the Space Station. remote sensors human behavior US Laboratory Module (ISS) safety ∞ inhibition GS laboratories signal detection introversion . space laboratories signal detectors lethargy . . manned orbital laboratories squid (detectors) psychology . . Destiny Laboratory Module telecommunication psychoses manned spacecraft transducers . manned orbital laboratories ultrasonic flaw detection detection . . Destiny Laboratory Module ultraviolet detectors sensing modules Venturi tubes detection . space station modules warning . aircraft detection Destiny Laboratory Module warning systems change detection International Space Station . edge detection spaceborne experiments fault detection detergents forest fire detection ethylenediaminetetraacetic acids Destroyer aircraft haze detection lubricating oils USE B-66 aircraft high altitude nuclear detection soaps missile detection surfactants destruction . radar detection RT aborted missions . remote sensing . signal detection accidents deterioration breaking . correlation detection RT atrophy cracking (fracturing) asteroid detection biodegradability damage chemical detection biodegradation destructive tests planet detection corrosion failure target recognition damage fatigue (materials) decay decomposition . ultrasonic flaw detection flight hazards . explosives detection flight safety acquisition degeneration lethality data acquisition degradation spacecraft breakup depolymerization depreciation detectors stresses early warning systems disintegration durability examination destructive tests exploration destructive tests gas detectors erosion burst tests identifying erosive burning bend tests inspection failure compression tests marking hot corrosion corrosion tests ∞ measurement rusting destruction missile signatures soil erosion observation drop tests system failures position (location) fatigue tests wear radar signatures fiber pushout wear resistance impact tests signature analysis weathering load tests signatures ∞ materials tests sound localization sound ranging space observations (from Earth) nondestructive tests determinants tensile tests algebra GS

surveillance target acquisition

∞ tests

vibration tests

determinants

linear equations

RT

| m         | natrices (mathematics)                 |           | hydrogen isotopes                    |            | protons  |
|-----------|--|-----------|--------------------------------------|------------|--|
| datarmina | tion                                   |           | deuterium                            | dayalan    | ava (nhatagyanhu)  |
| determina | neasurement                            |           | gases                                |            | ers (photography) photographic developers                    |
| USL II    | leasurement                            |           | . hydrogen hydrogen isotopes         | USL        | photographic developers                                      |
| detonable | gas mixtures                           |           | deuterium                            | develor    | oing nations   |
|           | ases                                   | RT        | heavy water                          | RT         | _  |
|           | gas mixtures                           |           | hydrogen fuels                       |            | economic development   |
|           | . detonable gas mixtures               |           | hydrogen plasma                      |            | economic factors   |
| n         | nixtures                               |           | nuclear fuels                        |            | nations  |
|           | solutions                              |           |                                      |            | United Nations   |
|           | . gas mixtures                         | deuteri   | um compounds                         |            |  |
|           | . detonable gas mixtures               | GS        | hydrogen compounds                   | ∞ develo   |  |
|           | hemical explosions                     |           | . deuterium compounds                | SN         | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|           | ring (igniting)                        |           | deuterides                           |            | LISTED BELOW)  |
|           | ammability                             |           | deuterium fluorides                  | RT         | angiogenesis   |
|           | ammable gases<br>as explosions         | 5.7       | . heavy water                        |            | energy policy  |
|           | as-gas interactions                    | RT «      | ∘ chemical compounds                 |            | evolution (development)                                      |
|           | xyacetylene                            |           |                                      |            | exploitation   |
|           | eacting flow                           |           | ım fluoride lasers                   |            | growth   |
|           | g                                      | USE       | DF lasers                            |            | land use   |
| detonatio | n                                      |           |                                      |            | management planning missile design                           |
| DEF A     | rapid chemical reaction which propa-   |           | um fluorides                         |            | personnel development  |
|           | a supersonic velocity. Used for        | DEF       | Fluorides of deuterium, a heavy iso- |            | photographic developers                                      |
|           | Jouget flame.                          |           | hydrogen. Used for DF.               |            | product development  |
|           | Chapman-Jouget flame                   | UF        | DF                                   |            | rural land use   |
|           | hemical explosions                     | GS        | halogen compounds                    |            | Starsite program   |
|           | ombustion                              |           | . fluorine compounds                 |            | training analysis  |
|           | ischarge                               |           | deuterium fluorides                  |            | urban development  |
|           | xplosions                              |           | . halides                            |            | •  |
|           | ring (igniting)                        |           | fluorides                            | deviation  | on   |
|           | ame propagation                        |           | deuterium fluorides                  | DEF        | The variation from a specified dimen-                        |
|           | itiation<br>ercussion                  |           | hydrogen compounds                   |            | design requirement, usually defining                         |
|           | rimers (explosives)                    |           | . deuterium compounds                |            | nd lower limits.   |
|           | ropellant explosions                   |           | . deuterium fluorides                | RT         | aberration   |
|           | ulse detonation engines                | RT        | DF lasers                            |            | abnormalities  |
|           | ulsejet engines                        |           |                                      |            | asymmetry  |
|           | ocket firing                           | deuterii  | ım oxides                            | ~          | dispersion   |
|           | hock waves                             | USE       | heavy water                          |            | distortion   |
|           |  |           | ,                                    |            | divergence   |
| detonatio | n waves                                | deuteri   | um plasma                            | ~          | odrift<br>eccentricity                                       |
|           | Shock waves that accompany detona-     | GS        | particles                            |            | heterogeneity  |
|           | ave a shock front followed by a region |           | . charged particles                  |            | irregularities   |
|           | sing pressure in which the reaction    |           | energetic particles                  |            | nonsynchronization   |
| occurs.   |  |           | plasmas (physics)                    |            | variations   |
|           | lastic waves                           |           | hydrogen plasma                      |            | randiono   |
|           | shock waves                            |           | deuterium plasma                     | ∞ devices  | 5  |
|           | . detonation waves                     |           | corpuscular radiation                | SN         | (USE OF A MORE SPECIFIC TERM IS                              |
|           | ombustible flow                        |           | . energetic particles                |            | RECOMMENDEDCONSULT THE TERMS                                 |
|           | ame propagation<br>as explosions       |           | plasmas (physics)                    | RT         | LISTED BELOW) air bag restraint devices                      |
|           | am accelerators                        |           | hydrogen plasma                      | 101        | alpha plasma devices   |
|           | eismic waves                           |           | deuterium plasma                     |            | antiskid devices   |
|           | ound waves                             | RT        | deuterons                            |            | bulk acoustic wave devices                                   |
|           | raves                                  |           | hydrogen                             |            | chips (memory devices)                                       |
|           | 4.00                                   |           |                                      |            | cyclotron resonance devices                                  |
| detonator | s                                      |           | on irradiation                       |            | error correcting devices                                     |
| GS e      | xplosive devices                       | GS        | irradiation                          |            | explosive devices  |
|           | initiators (explosives)                |           | ion irradiation                      |            | lift devices   |
|           | . detonators                           | БТ        | . deuteron irradiation               |            | lifting bodies   |
|           | niters                                 | RT        | alpha particles                      |            | mechanical devices   |
|           | initiators (explosives)                |           | charged particles nuclear fusion     |            | nanostructures (devices)                                     |
|           | detonators                             |           | particles                            |            | NDM semiconductor devices                                    |
|           | aps (explosives)                       |           | plasmas (physics)                    |            | nuclear devices  |
|           | xploding wires                         |           | proton irradiation                   |            | photoelectrochemical devices                                 |
|           | xplosives                              |           | proton inadiation                    |            | plasma display devices                                       |
|           | ılminates                              |           |                                      |            | positioning devices (machinery)                              |
|           | ises (ordnance)                        | deutero   |                                      |            | safety devices<br>self erecting devices                      |
|           | rimers (explosives)                    | DEF<br>GS | The nuclei of deuterium atoms.       |            | self repairing devices                                       |
| S         | odium azides                           | GS        | . deuterons                          |            | solid state devices  |
| deuteride | 8                                      |           | particles                            |            | surface acoustic wave devices                                |
|           | ydrogen compounds                      |           | . charged particles                  |            | training devices   |
|           | deuterium compounds                    |           | . energetic particles                |            | TRAPATT devices  |
|           | . deuterides                           |           | nuclei (nuclear physics)             |            |  |
|           | ydrides                                |           | deuterons                            | devitrific | eation   |
|           | ,                                      |           | . corpuscular radiation              | USE        |  |
| deuterium | 1                                      |           | energetic particles                  |            | -  |
|           | heavy isotope of hydrogen having       |           | nuclei (nuclear physics)             | dew        |  |
| one proto | n and one neutron in the nucleus.      |           | deuterons                            | RT         | acid rain  |
|           | ydrogen 2.                             |           | . elementary particles               |            | frost  |
|           | ydrogen 2                              |           | deuterons                            |            | hydrometeors   |
|           | hemical elements                       | RT        | alpha particles                      |            | precipitation (meteorology)                                  |
|           | hydrogen                               |           | cosmic rays                          |            | water vapor  |
|           | hydrogen isotopes                      |           | deuterium plasma                     |            | • . •  |
|           | deuterium                              |           | photomagnetic effects                | dew po     |  |
|           | nuclides                               |           | plasmas (physics)                    | DEF        | Temperature at which water vapor be-                         |
| -         | . isotopes                             |           | Pomeranchuk theorem                  | gins to d  | condense.  |

| RT        | atmospheric moisture condensing            |        | Hawker Siddeley aircraft . DH 121 aircraft     | RT o      | ∞ aircraft  |
|-----------|--|--------|--|-----------|---|
|           | hygrometers                                |        | jet aircraft                                   | DHC B     | eaver aircraft                                      |
|           | saturation (chemistry)                     |        | . turbofan aircraft                            |           | DHC 2 aircraft                                      |
|           | ,    |        | DH 121 aircraft                                | 002       | 2.10 2 40.4.1                                       |
|           | systems                                    |        | monoplanes                                     | diabete   | es mellitus   |
| USE       | cryogenic equipment                        |        | DH 121 aircraft                                | GS        | diseases  |
| dewate    | rina                                       |        | passenger aircraft . DH 121 aircraft           |           | diabetes mellitus                                   |
| DEF       | Removal of water by draining, pump-        |        | transport aircraft                             | RT        | carbohydrate metabolism                             |
| ing, or c | other means.                               |        | . DH 121 aircraft                              |           | enzyme activity insulin                             |
| RT        | dehydration                                | RT <   | ∞ aircraft                                     |           | pancreas  |
|           | drying pollution control                   |        |  |           | urinalysis  |
|           | waste disposal                             | DH 125 | aircraft                                       |           |   |
|           | water reclamation                          | UF     |  |           | ne satellites                                       |
|           |  |        | HS-125 aircraft                                | GS        | artificial satellites                               |
| dewaxii   | •  |        | Jet Dragon aircraft                            |           | . Diademe satellites                                |
| RT        | decontamination refining                   | GS     | de Havilland aircraft . DH 125 aircraft        | diagno    | sis   |
|           | reming                                     |        | general aviation aircraft                      |           | ∞ analyzing   |
| dewettir  | ng   |        | . DH 125 aircraft                              |           | anesthesiology                                      |
| USE       | drying                                     |        | Hawker Siddeley aircraft                       |           | behavior  |
| dextran   | ie.  |        | DH 125 aircraft                                |           | biomarkers  |
| GS        | biopolymers                                |        | jet aircraft                                   |           | clinical medicine<br>diseases                       |
| 00        | . polysaccharides                          |        | . DH 125 aircraft light aircraft               |           | examination   |
|           | dextrans                                   |        | . DH 125 aircraft                              |           | injuries  |
|           | organic compounds                          |        | monoplanes                                     |           | medical equipment                                   |
|           | . carbohydrates                            |        | DH 125 aircraft                                |           | medical science                                     |
|           | polysaccharides<br>dextrans                |        | passenger aircraft                             |           | pathology   |
|           | sugars                                     |        | . DH 125 aircraft                              |           | prognosis   |
|           | dextrans                                   |        | transport aircraft . DH 125 aircraft           |           | psychology<br>psychometrics                         |
|           |  | RT «   | ∞ aircraft                                     |           | telemedicine  |
| DF        |  | 101    | - anoran                                       |           | veterinary medicine                                 |
| USE       | deuterium fluorides                        | DUG 0  | -1   |           | ·   |
| DF lase   | ers  | DHC 2  | aircraft De Havilland Canada STOL utility air- | diagran   |   |
| DEF       | Gas lasers in which the active material    |        | sed for DHC Beaver aircraft.                   | GS        | diagrams  |
| is deute  | erium fluoride. Used for deuterium fluo-   | UF     | DHC Beaver aircraft                            |           | . bending diagrams . block diagrams                 |
| ride lase |  | GS     | de Havilland aircraft                          |           | . circuit diagrams                                  |
| UF        | deuterium fluoride lasers                  |        | DHC 2 aircraft                                 |           | . color-color diagram                               |
| GS        | stimulated emission devices                |        | general aviation aircraft                      |           | . color-magnitude diagram                           |
|           | . lasers gas lasers                        |        | . DHC 2 aircraft                               |           | . creep diagrams                                    |
|           | DF lasers                                  |        | jet aircraft<br>. DHC 2 aircraft               |           | . Feynman diagrams                                  |
| RT        | deuterium fluorides                        |        | monoplanes                                     |           | . Hertzsprung-Russell diagram                       |
|           |  |        | DHC 2 aircraft                                 |           | . Mollier diagram<br>. Nyquist diagram              |
|           | aircraft                                   |        | transport aircraft                             |           | . phase diagrams                                    |
| USE       | Comet 4 aircraft                           |        | . DHC 2 aircraft                               |           | . S-N diagrams                                      |
| DH 112    | aircraft                                   | KI (   | ∞ aircraft                                     |           | . stress-strain diagrams                            |
| UF        | de Havilland DH 112 aircraft               |        |  |           | . tephigrams  |
|           | de Havilland Venom aircraft                | DHC 4  | aircraft                                       |           | . Venn diagrams                                     |
| 00        | Venom aircraft                             | UF     | AC-1 aircraft                                  | RT        | . Voronoi diagrams charts                           |
| GS        | attack aircraft . fighter aircraft         |        | Caribou aircraft CV-2 aircraft                 | IXI       | drawings  |
|           | DH 112 aircraft                            |        | de Havilland DHC 4 aircraft                    |           | geometry  |
|           | de Havilland aircraft                      | GS     | de Havilland aircraft                          |           | graphic arts  |
|           | . DH 112 aircraft                          |        | DHC 4 aircraft                                 |           | visual aids   |
|           | Hawker Siddeley aircraft                   |        | monoplanes                                     |           |   |
|           | . DH 112 aircraft                          |        | DHC 4 aircraft                                 | DIAL (li  |   |
|           | jet aircraft . DH 112 aircraft             |        | transport aircraft . DHC 4 aircraft            | USE       | differential absorption lidar                       |
|           | monoplanes                                 |        | utility aircraft                               | DIAL sa   | atallita  |
|           | . DH 112 aircraft                          |        | . DHC 4 aircraft                               | GS        | artificial satellites                               |
| RT ∘      | ∘ aircraft                                 |        | V/STOL aircraft                                |           | . scientific satellites                             |
| DII 445   | -1   |        | . short takeoff aircraft                       |           | DIAL satellite                                      |
| UF 115    | aircraft de Havilland DH 115 aircraft      | DT     | . DHC 4 aircraft                               | RT        |   |
| Oi        | Vampire aircraft                           | KI     | ∞ aircraft                                     |           | astronomical photometry                             |
| GS        | attack aircraft                            |        |  |           | European space programs satellite-borne instruments |
|           | . DH 115 aircraft                          |        | aircraft                                       |           | satellite-borne instruments                         |
|           | de Havilland aircraft                      | UF     | Buffalo aircraft                               | diallyl ( | compounds   |
|           | . DH 115 aircraft                          |        | CV-7 aircraft<br>de Havilland DHC 5 aircraft   |           | allyl compounds                                     |
|           | Hawker Siddeley aircraft . DH 115 aircraft | GS     | de Havilland aircraft                          |           | ∞ chemical compounds                                |
|           | jet aircraft                               | 00     | . DHC 5 aircraft                               |           |   |
|           | . DH 115 aircraft                          |        | jet aircraft                                   | dials     |   |
|           | monoplanes                                 |        | . turboprop aircraft                           | UF        | pointers  |
|           | DH 115 aircraft                            |        | DHC 5 aircraft                                 | RT        | display devices                                     |
| RT ∘      | ∘ aircraft                                 |        | monoplanes                                     |           | indicating instruments                              |
| DH 121    | aircraft                                   |        | . DHC 5 aircraft transport aircraft            | dialysis  |   |
| UF        | de Havilland DH 121 aircraft               |        | . DHC 5 aircraft                               |           | dialysis  |
| ٠.        | Trident aircraft                           |        | utility aircraft                               |           | . electrodialysis                                   |
| GS        | commercial aircraft                        |        | . DHC 5 aircraft                               | RT        | diaphragms (mechanics)                              |
|           | . DH 121 aircraft                          |        | V/STOL aircraft                                |           | diffusion   |
|           | de Havilland aircraft                      |        | . short takeoff aircraft                       |           | extraction  |
|           | . DH 121 aircraft                          |        | DHC 5 aircraft                                 |           | permeating  |

∞ separation thorax ... dibromides dibutyl compounds diamagnetism ∞ diaphragms (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) alkyl compounds . dibutyl compounds Meissner effect GS magnetic properties RT ∞ chemical compounds diamagnetism diaphragm (anatomy) tetrabutvls Curie temperature diaphragms (mechanics) cyclotron resonance electrolytic cells electrical properties dicarboxylic acids membranes ferromagnetism GS acids paramagnetism . carboxylic acids diaphragms (mechanics) . dicarboxylic acids (NON-ANATOMICAL) bladders (mechanics) organic compounds . carboxylic acids Diamant launch vehicle launch vehicles GS diaphragms (mechanics) . . dicarboxylic acids terephthalate Diamant launch vehicle . expulsion bladders rocket vehicles catholytes . multistage rocket vehicles dialysis . Diamant launch vehicle dichlorides ∞ diaphragms liquid propellant rocket engines GS halogen compounds electrolytic cells solid propellant rocket engines . chlorine compounds membrane structures . . chlorides membranes optical filters ... dichlorides diameters osmosis . halides Lengths of the longest straight lines thin plates . . chlorides through the centers of the largest cross sec-... dichlorides thin walls webs (sheets) dimensions diameters webs (supports) dichlorodiphenyltrichloroethane RT circumferences USE DDT geometry diastole radii GS heart function dichotomies thickness diastole GS classifications blood circulation . hierarchies blood flow . . dichotomies diamines blood pressure GS organic compounds cardiovascular system . amines dichroism diastolic pressure electromagnetic properties . optical properties . . diamines GS heart . . . ethylenediamine heart rate . . . guánidines dichroism . . . . guanethidine systole color ... triaminoguanidinium azide isochromatics diastolic pressure light (visible radiation) GS pressure photoelasticity diamond films . blood pressure (added November 1991) diastolic pressure thin films dichromates cardiac ventricles diamond films USE chromates diastole amorphous silicon coatings Dicke radiometers diatomic gases diamonds Dicke type radiometers metal films measuring instruments semiconducting films . molecular gases . radiation measuring instruments . . polyatomic gases space processing . . actinometers ... diatomic gases . . radiometers vacuum deposition vapor deposition . . . Dicke radiometers diatomic molecules RT bolometers GS molecules diamond pyramid hardness thermopiles . polyatomic molecules (added October 2001) . diatomic molecules USE Vickers hardness Dicke type radiometers low molecular weights USE Dicke radiometers methylidyne diamond wings Morse potential USE low aspect ratio wings dictionaries triatomic molecules swept wings glossaries GS documents diatoms (unicellular plants) . dictionaries diamonds USE algae abbreviations (A) An isometric mineral, representing coding a naturally occurring crystalline form of carbon DIR decoding dimorphous with graphiteand being the hardest (added February 1997) definition natural substance known. (B) Artificially prodiffuse interstellar bands nomenclatures duced crystallized carbon similar to the native space glossaries form. (C) A crystalline mineral that resembles terminology dibasic compounds diamonds in brilliance. RT ∞ chemical compounds GS diamonds . meteoritic diamonds monomers abrasives DEF A mixture of rare earth elements that is freed from cerium. It was once regarded as an carbon diborane diamond films boron compounds element but contains chiefly neodymium and praseodymium and is usually associated with single crystals diborane lanthanum. It is used in coloring glass for optical hydrogen compounds . hydrides filters diaphragm (anatomy) ... diborane lanthanum DEF Musculomembranous partition sepaneodymium rating the abdominal and thoracic cavities. optical filters anatomy dibromides

halogen compounds

. dibromides

. . bromides

. . bromides

. halides

. bromine compounds

praseodymium

. . insecticides

poisons . pesticides

dieldrin

. musculoskeletal system

respiratory system
...diaphragm (anatomy)

. . diaphragm (anatomy)

. . muscles

RT ∞ diaphragms

| dieldrin  | RT           | organic chemistry                     |           | nutrition   |
|---|--------------|---------------------------------------|-----------|---|
| dielectric constant   | diencep      | halon                                 |           | space flight feeding                              |
| USE permittivity  |              | anatomy                               | differen  | ce equations                                      |
|   |              | . nervous system                      | GS        | analysis (mathematics)                            |
| dielectric loss   |              | central nervous system                |           | . numerical analysis                              |
| (added April 2000) DEF The electric energy that is converted      |              | brain<br>diencephalon                 | рT        | difference equations approximation                |
| into heat in a dielectric material subjected to a                 |              | hypothalamus                          | KI        | differences                                       |
| changing electric field.  |              | pineal gland                          |           | differential equations                            |
| GS electrical properties  |              | thalamus                              | ~         | o equations                                       |
| . dielectric properties   | RT           | embryology                            |           | finite difference theory                          |
| . dielectric loss   |              |                                       |           | linear evolution equations                        |
| losses<br>. dielectric loss                                       | dienes<br>GS | organic compounds                     |           | nonlinear evolution equations numerical stability |
| RT dielectrics  | 00           | . hydrocarbons                        |           | numerical stability                               |
| energy dissipation  |              | aliphatic hydrocarbons                | differen  | ices  |
| permittivity  |              | dienes                                | RT        | difference equations                              |
| dialantain wastariala   |              | butadiene                             |           | divergence  |
| dielectric materials USE dielectrics                              |              | heptadiene hexadiene                  |           | finite difference theory gradients                |
| diciodatios   |              | polybutadiene                         |           | variations  |
| dielectric permeability   |              | polybatadiono                         |           | vana.iono   |
| GS permeability   | dies         |                                       |           | itial absorption lidar                            |
| dielectric permeability   | RT           | casting                               |           | ed September 1992)                                |
| RT magnetic permeability  |              | coining                               |           | DIAL (lidar)                                      |
| dielectric polarization   |              | cutters<br>extruding                  | GS        | radar<br>. optical radar                          |
| GS polarization (charge separation)                               |              | injection molding                     |           | differential absorption lidar                     |
| dielectric polarization   |              | machine tools                         | RT        | absorption spectra                                |
| RT dielectrics  |              | molds                                 |           | atmospheric sounding                              |
| electrets   |              | pultrusion                            |           | backscattering                                    |
| electric fields   |              | punches rheocasting                   |           | radar measurement                                 |
| dielectric properties   |              | rneocasting<br>stamping               |           | remote sensing                                    |
| GS electrical properties  |              | yey                                   | different | tial algebra                                      |
| dielectric properties   | diesel e     | •                                     |           | differential calculus                             |
| dielectric loss   | GS           | engines                               |           | matrices (mathematics)                            |
| permittivity RT antiferroelectricity                              |              | . internal combustion engines         | differen  | ntial amplifiers                                  |
| capacitance   |              | diesel engines<br>. piston engines    |           | amplifiers  |
| ferroelectricity  |              | diesel engines                        | 00        | . differential amplifiers                         |
| ∞ properties  | RT           | locomotives                           | RT        |   |
| Sommerfeld waves  |              |                                       |           | error signals                                     |
| dialactric  | diesel f     |                                       |           | operational amplifiers                            |
| dielectric waveguides<br>(added February 1998)                    | GS           | fuels . chemical fuels                |           | transistor amplifiers                             |
| GS waveguides   |              | hydrocarbon fuels                     | differen  | ntial analyzers                                   |
| . dielectric waveguides   |              | diesel fuels                          | DEF       | -   |
| RT dielectrics  |              | liquid fuels                          |           | y for solving differential equations.             |
| microwave transmission  |              | diesel fuels                          | RT        | algorithms  |
| optical waveguides<br>waveguide antennas                          |              | products                              |           | analog computers computerized simulation          |
| waveguide anterinas<br>waveguide filters                          |              | . petroleum products diesel fuels     |           | differential equations                            |
| waveguide inters  | RT           | automobile fuels                      |           | digital computers                                 |
| dielectrics   |              | gasoline                              |           | digital integrators                               |
| DEF Substances that contain few or no free                        |              | internal combustion engines           |           |   |
| charges and which can support electrostatic                       |              | kerosene                              |           | itial calculus                                    |
| stresses. Used for dielectric materials.  UF dielectric materials | diathyl      | compounds                             | UF        |   |
| GS dielectrics  |              | ed July 1992)                         | GS        | differential algebra analysis (mathematics)       |
| . lossless materials  |              | organic compounds                     | 00        | . calculus  |
| . radome materials  |              | diethyl compounds                     |           | differential calculus                             |
| RT barium titanates   |              | . diethyl ether                       | RT ∝      | o differentiation                                 |
| capacitive fuel gages   | DT           | diethyl hydrogen phosphite (DEHP)     |           | differentiators                                   |
| capacitive fuel gages<br>capacitors                               | KI           | ethyl compounds<br>triethyl compounds |           | integral calculus<br>limits (mathematics)         |
| capacitors  |              | alouty) compounds                     |           | minima  |
| dielectric loss   | diethyl      | ether                                 |           | numerical differentiation                         |
| dielectric polarization   |              | ethers                                |           | optimization                                      |
| dielectric waveguides   |              | diethyl ether                         |           | real variables                                    |
| electrets   |              | organic compounds                     |           | tial agretions                                    |
| electric conductors electrical insulation                         |              | . diethyl compounds diethyl ether     |           | itial equations<br>differential operators         |
| electromagnetic surface waves                                     |              | diedilyi etilei                       | OI.       | integrodifferential equations                     |
| field mode theory   | diethyl      | hydrogen phosphite (DEHP)             | GS        | analysis (mathematics)                            |
| ∞ insulated structures  | UF           | DEHP                                  |           | . real variables                                  |
| insulators  | GS           | organic compounds                     |           | differential equations                            |
| magnetoelectric media   |              | . diethyl compounds                   |           | Blasius equation                                  |
| screen effect<br>spark gaps                                       |              | . diethyl hydrogen phosphite (DEHP)   |           | Chandrasekhar equation cosine series              |
| spark gaps<br>sulfur hexafluoride                                 |              | phosphorus compounds                  |           | Duffing differential equation                     |
|   |              | . diethyl hydrogen phosphite          |           | Falkner-Skan equation                             |
| dielectronic satellite lines                                      |              | (DEHP)                                |           | hyperbolic differential equations                 |
| USE resonance lines   | RT           | ethyl compounds                       |           | Lame wave equations                               |
| Diole-Alder reactions   | diata        |                                       |           | partial differential equations                    |
| Diels-Alder reactions GS chemical reactions                       | diets<br>RT  | caloric requirements                  |           | biharmonic equations Burger equation              |
| . cycloaddition   | 171          | fasting                               |           | Cauchy-Riemann equations                          |
| . Diels-Alder reactions   | ~            | ofood                                 |           | elliptic differential equations                   |
|   |              |                                       |           |   |

. . . . . Monge-Ampere equation . differential geometry RT circuits Euler-Cauchy equations . . lie groups differential calculus . . . . Ffowcs Williams-Hawkings . . . spinor groups integrators equation . . Riemann manifold Fokker-Planck equation . . tensor analysis diffraction Gauss equation analytic geometry The process by which the direction of .... Helmholtz vorticity equation ∞ analyzing radiation is changed so that it spreads into the . . . Liouville equations curvature geometric shadow region of an opaque or re-.... parabolic differential equations curves (geometry) fractive object that lies in a radiation field. Used . . . . Poisson equation invariant imbeddings for interference monochromatization . . . . vlasov equations Kirchhoff-Huygens principle. lofting . . . Riccati equation relativity interference monochromatization ... vorticity equations Kirchhoff-Huygens principle . Helmholtz vorticity equation differential interferometry diffraction . electron diffraction Airy function interferometry alternating direction implicit methods differential interferometry . Fresnel diffraction flow visualization asymptotic properties . neutron diffraction backward differencing holography . pulse diffraction Schlieren photography . wave diffraction Bessel functions Bethe-Salpeter equation bond graphs . x ray diffraction differential operators RT atmospheric scattering differential equations attenuation boundary layer equations boundary value problems operators (mathematics) Bragg angle caustics (optics) crystal optics calculus differential pressure calculus of variations pressure GS Debye-Scherrer method Cauchy problem differential pressure deflection diffractometers Crank-Nicholson method pressure distribution difference equations pressure gradients echelette gratings differential analyzers pressure measurement echelle gratings Dirichlet problem electromagnetic radiation geometrical theory of diffraction distributed parameter systems differential pulse code modulation equations An efficient signal encoding method of Huygens principle Floquet theorem reducing the transmission rate of digital signals. Fourier analysis isochromatics The basic principle of DPCM is to quantize code Laue method Fourier-Bessel transformations and transmit the difference between the actual functional integration Moire effects sample and prediction value. Used for DPCM Green's functions mosaics (modulation). half planes optical properties DPCM (modulation) UF Hankel functions ray tracing GS coding Hill determinant refraction . signal encoding . . pulse modulation ill-conditioned problems transmission (mathematics) wave dispersion ... pulse code modulation
... differential pulse code ill-posed problems (mathematics) wave propagation integral equations modulation diffraction gratings integrals modulation USE gratings (spectra) Lagrange multipliers . pulse modulation Lame functions . . pulse code modulation diffraction limited cameras Laplace transformation differential pulse code Liapunov functions GS optical equipment modulation . cameras linear equations RT biternary code . diffraction limited cameras linearity decommutators Lipschitz condition photographic equipment linear prediction Mathieu function . cameras P.A.C.M. telemetry diffraction limited cameras maximum principle PCM telemetry Milne method astronomical photography pulse communication spaceborne photography Neumann problem pulse frequency modulation spaceborne telescopes nonlinear equations telemetry nonlinearity unified S band diffraction optics numerical analysis USE diffractive optics numerical differentiation differential thermal analysis numerical integration USE thermal analysis diffraction paths numerical stability Bragg angle operational calculus electron trajectories Pfaff equation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT TERMS LISTED BELOW) holographic optical elements potential theory multipath transmission predictor-corrector methods anatomy optical paths Riemann waves cytogenesis paths Riesz theorem differential calculus spherical waves Schauder fixpoint theorem differentiation (biology) Schmidt method diffraction patterns discrimination spectral methods fringe patterns stability derivatives differentiation (biology) distribution (property) Sturm-Liouville theory . radiation distribution GS cytogenesis vector analysis differentiation (biology) . . diffraction patterns Whittaker functions anatomy . . . Kossel pattern biological diversity . . rainbows differential games RT diffractometers ∞ biology (added October 1998) ∞ differentiation Fresnel integrals ĠS games embryology interleukins Fresnel region differential games fringe multiplication minimax technique geometrical theory of diffraction morphology optimal control holographic interferometry physiology pursuit-evasion games interferometry stochastic processes differentiators Moire fringes zero sum games DEF In computer operations, devices Moire interferometry whose output is proportional to the derivative of an input signal. In electronics, a transducer whose output waveform is the time derivative of null zones

its input waveform.

∞ optics

∞ patterns

phase contrast

GS

differential geometry

aeometry

nonEuclidian geometry

Pomeranchuk theorem signal fading speckle holography speckle interferometry speckle patterns underwater optics very long base interferometry

## diffraction propagation

Wave propagation around objects, or over the horizon, by diffraction.

GS transmission

. wave propagation

diffraction propagation

diffraction radiation geometrical optics

∞ optics

∞ propagation spherical waves underwater optics

#### diffraction radiation

DEF Electromagnetic radiation excited by an electron flux passing near a diffractive, periodic structure, such as a wiggler magnet in a free electron laser.

electromagnetic radiation diffraction radiation

bremsstrahlung

cyclotron resonance devices

diffraction propagation electron beams electron diffraction

free electron lasers gratings (spectra) laser outputs

light emission maser outputs masers

microwave emission microwave oscillators

microwave tubes microwaves

nonuniform magnetic fields

particle motion

relativistic electron beams stimulated emission devices

transferred electron devices

tunable lasers wave diffraction

wave excitation wiggler magnets

## diffraction telescopes

USE spectroscopic telescopes

## diffractive optics

(added July 1995)

DEF Optical elements that add up scattered light from a multiple of disturbances in amplitude or phase to generate a transformed wavefront.

diffraction optics RT display devices holography ∞ optics photopolymers

## diffractometers

measuring instruments

. optical measuring instruments

. diffractometers optical equipment

. optical measuring instruments

diffractometers

chemical analysis diffraction diffraction patterns

etalons goniometers interferometers

Mach-Zehnder interferometers

optical measurement photogoniometers spectrometers

wave front reconstruction

## diffuse interstellar bands

(added February 1997) ÙF DIB

GS spectra . spectral bands

## diffuse interstellar bands

interstellar chemistry interstellar extinction interstellar matter molecular clouds polycyclic aromatic hydrocarbons

## diffuse radiation

Radiant energy propagating in many different directions through a given small volume of space; to be contrasted with parallel radiation. Used for lunar scattering.

UF lunar scattering heat transfer light scattering RT point sources ∞ radiation specular reflection

#### ∞ diffusers

SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED-CONSULT THE TERMS
LISTED BELOW)
DEF Specially designed ducts, chambers,
or sections, sometimes equipped with guide vanes, that decrease the velocity of a fluid, as air, and increases its pressure, as in jet engines, wind tunnels, etc. Used for shock diffusers.

shock diffusers RT air conditioning

air conditioning equipment

attenuators baffles

boundary layer separation

ceilings (architecture)

chokes conical flow deflectors diffusion diverters engine inlets exhaust diffusers hypersonic inlets

 illumination inlet flow inlet nozzles louvers mixers mufflers ∞ nozzles

porous walls pressure recovery separators sprayers

supersonic diffusers vaneless diffusers

## diffusion

DEF In an atmosphere, or in any gaseous system, the exchange of fluid parcels between regions, in apparently random motions of a scale too small to be treated by the equations of motion. In materials, the movement of atoms of one material into the crystal lattice of an adjoining material, e.g., penetration of the atoms in a ceramic coating into the lattice of the protected metal. In ion engines, the migration of neutral atoms through a porous structure incident to ionization at the emitting surface. Used for diffusion effect and perfusion.

UF diffusion effect perfusion

#### GS diffusion

ambipolar diffusion

atmospheric diffusion

. gaseous diffusion

. gaseous self-diffusion magnetic diffusion

. molecular diffusion

. particle diffusion

. . electron diffusion

. . ionic diffusion

plasma diffusion . self diffusion (solid state)

self propagation

species diffusion surface diffusion

thermal diffusion

. turbulent diffusion

RT ∞ absorption adsorption air pollution

atmospheric scattering

chemical engineering

circulation

convection-diffusion equation

dehumidification dialysis ∞ diffusers diffusion length

diffusivity dilution dispersing ∞ dispersion

dissipation dissolving distillation drying

∞ effects Einstein equations

∞ equilibrium evaporation extraction Ficks equation gas-metal interactions

kinetic theory mixing nonpoint sources osmosis penetration percolation permeability permeating ∞ propagation radial flow

reflection scattering self absorption separation sound propagation sound waves spraying spreading sublimation surface properties thermophoresis transport properties

## diffusion bonding

USE diffusion welding

## diffusion coefficient

DEF The absolute value of the ratio of the molecular flux per unit area to the concentration gradient of a gas diffusing through a gas or a porous medium where the molecular flux is evaluated across a surface perpendicular to the direction of the concentration gradient.

coefficients

## . diffusion coefficient

. Soret coefficient transport properties diffusion coefficient

. Soret coefficient attenuation coefficients

convection-diffusion equation ∞ equilibrium Ficks equation gaseous diffusion Lewis numbers

mass flow rate molecular diffusion particle diffusion

reaction-diffusion equations

diffusion effect USE diffusion

## diffusion electrodes

electrodes GS

diffusion electrodes electrolytic cells semiconductor devices

## diffusion flames

flames GS

diffusion flames

boundary layer combustion

# diffusion length

| combustion  | difluoro compounds   | CDC 6700 computer  |
|---|--|--|
| Damkohler number  | perfluoroalkane  | CDC 7000 series computers  |
|   | polytetrafluoroethylene  | CDC 7600 computer  |
| diffusion length  | teflon (trademark)   | CDC 8090 computer  |
| GS dimensions   | RT ∞ chemical compounds  | CDC Cyber 170 series computers   |
| . length  |  | CDC Cyber 175 computer   |
| diffusion length  | difluorourea   | CDC Cyber 74 computer  |
| distance  | GS nitrogen compounds  | ,  |
| . diffusion length  | . amides   | CDC Cyber 174 computer   |
| RT carrier transport (solid state)  | ureas  | CDC Cyber 203 computer   |
| diffusion   | difluorourea   | CDC Cyber 205 computer   |
| electron diffusion  | organic compounds  | CDC Star 100 computer  |
| minority carriers   | . amines   | EAI 680 computer   |
| particle diffusion  | difluorourea   | EAI 8400 computer  |
| semiconductor devices   | dilidolodiea   | EAI 8900 computer  |
|   | digesting  | EMR 6050 computer  |
| solar cells   |  | Ferranti Mercury computer  |
| -1166   | RT eating  | GE computers   |
| diffusion pumps   | enzymology   | GE 625 computer  |
| GS pumps  | ∞ food   | GE 635 computer  |
| . diffusion pumps   | lysine   | Hewlett-Packard computers  |
| RT vacuum apparatus   | mastication  |  |
| vacuum pumps  | physiology   | Honeywell computers  |
|   | softening  | DDP 516 computer   |
| diffusion theory  |  | Honeywell 600/6000 computer  |
| RT Einstein equations   | digestive system   | Honeywell ADEPT computer   |
| Fokker-Planck equation  | GS anatomy   | Honeywell DDP 116 computer   |
| Jacobi integral   | . digestive system   | IBM 360 computer   |
| kinetic theory  | esophagus  | IBM 370 computer   |
| Kirkendall effect   | gastrointestinal system  | IBM 650 computer   |
| Monte Carlo method  | appendix (anatomy)   | IBM 704 computer   |
| ∞ theories  | intestines   | IBM 709 computer   |
|   |  | IBM 1130 computer  |
| transport theory  | rectum   | IBM 1401 computer  |
| diffusion waves   | stomach  | IBM 1410 computer  |
| diffusion waves   | mouth  |  |
| RT elastic waves  | lips (anatomy)   | IBM 1620 computer  |
| electron diffusion  | pancreas   | IBM 2250 computer  |
| electrostatic waves   | salivary glands  | IBM 7030 computer  |
| ionic diffusion   | teeth  | IBM 7040 computer  |
| kinetic theory  | tongue   | IBM 7044 computer  |
| molecular diffusion   | RT abdomen   | IBM 7070 computer  |
| plasma diffusion  | enzyme activity  | IBM 7074 computer  |
| plasma waves  | enzymology   | IBM 7090 computer  |
| <b>,</b>  | gall   | IBM 7094 computer  |
| diffusion welding   | organs   | ICL computers  |
| UF diffusion bonding  | saliva   | Illiac computers   |
| GS welding  |  | Illiac 3 computer  |
| . pressure welding  | ∞ systems  | Illiac 4 computer  |
| diffusion welding   | digital compres  | microcomputers   |
|   | digital cameras  | personal computers   |
| •   | (added July 1998)  |  |
| burners   | GS optical equipment   | IBM personal computers   |
| Kirkendall effect   | . cameras  | Macintosh personal computers   |
| metal bonding   | digital cameras  | minicomputers  |
| metal-metal bonding   | photographic equipment   | Nova computers   |
|   | . cameras  | Modcomp II computer  |
|   |  | Modcomp IV computer  |
| diffusion-convection equation   | digital cameras  |  |
| diffusion-convection equation USE convection-diffusion equation   |  | parallel computers   |
| ,   | RT CCD cameras   | parallel computers massively parallel processors   |
| USE convection-diffusion equation   | RT CCD cameras<br>digital systems  | massively parallel processors  |
| USE convection-diffusion equation diffusivity   | RT CCD cameras<br>digital systems<br>digital techniques  |  |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a   | RT CCD cameras digital systems digital techniques photogrammetry   | massively parallel processors Connection Machine MIMD (computers)  |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coeffi-   | RT CCD cameras digital systems digital techniques photogrammetry television cameras  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers)   |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  | RT CCD cameras digital systems digital techniques photogrammetry   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer   |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computers   |
| diffusivity DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K. RT diffusion fluid mechanics   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computers PDP 7 computer  |
| diffusivity DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K. RT diffusion fluid mechanics impedance   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer  |
| diffusivity DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K. RT diffusion fluid mechanics impedance Kirkendall effect   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer PDP 9 computer   |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer   |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer   |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11/20 computer  |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/20 computer PDP 11/40 computer  |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion  fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties  ∞ resistance  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/45 computer   |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability  ∞ physical properties ∞ resistance solubility   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems  RT numerical control remote control servocontrol ∞ systems   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/20 computer PDP 11/40 computer PDP 11/45 computer PDP 11/50 computer  |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion  fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties  ∞ resistance  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/45 computer PDP 11/45 computer PDP 11/50 computer PDP 11/50 computer PDP 11/70 computer  |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties  ∞ resistance solubility  thermodynamic properties   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems  RT numerical control remote control servocontrol ∞ systems   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/45 computer PDP 11/50 computer PDP 11/50 computer PDP 11/70 computer PDP 11/70 computer PDP 11/70 computer PDP 11/70 computer PDP 12 computer  |
| USE convection-diffusion equation  diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability  ∞ physical properties ∞ resistance solubility   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/45 computer PDP 11/45 computer PDP 11/50 computer PDP 11/50 computer PDP 11/70 computer  |
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| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability  ∞ physical properties ∞ resistance solubility thermodynamic properties  difluorides  GS halogen compounds  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  digital computers DEF Computers which operate with infor-  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11/20 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/45 computer PDP 11/50 computer PDP 11/70 computer PDP 11/70 computer PDP 11/70 computer PDP 12 computer PDP 12 computer PDP 12 computer PDP 12 computer PAP 12 computer Raytheon computers RCA spectra 70 computer  |
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| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion  fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties  ∞ resistance solubility  thermodynamic properties  difluorides  GS halogen compounds  fluorine compounds  difluorides  . diffuorides  . diffuorides  . diffuorides  calcium fluorides  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form. GS data processing equipment  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 20 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/40 computer PDP 11/50 computer PDP 11/60 computer PDP 11/70 computer PDP 11/70 computer PDP 12 computer PDP 12 computer PDP 15 computer PDP 15 computer PDP 16 computer PDP 17 computer PDP 17 computer PDP 17 computer PDP 18 computer PDP 19 computer SDS 900 series computer SDS 930 computer SDS 9300 computer  |
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| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion  fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties  ∞ resistance solubility  thermodynamic properties  difluorides  GS halogen compounds  fluorine compounds  fluorides  ∴ diffuorides  ∴ calcium fluorides  ∴ fluorides  ∴ fluorides  ∴ fluorides  ∴ calcium fluorides  ∴ diffuorides  ∴ diffuorides  ∴ diffuorides  ∴ diffuorides  ∴ calcium fluorides  ∴ diffuorides  ∴ diffuorides  ∴ calcium fluorides  ∴ calcium fluorides | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form.  GS data processing equipment . computers . digital computers . digital computers . CDC 160-A computer CDC 3100 computer  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 25 computer PDP 2 computer PDP 3 computer PDP 10 computer PDP 10 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/45 computer PDP 11/50 computer PDP 11/70 computer PDP 11/70 computer PDP 11/70 computer PDP 15 computer SDS 930 computer SDS 930 computer SDS 930 computer SEL computers SIGMA 5 computer SIGMA 5 computer   |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion  fluid mechanics impedance  Kirkendall effect mobility  NDM semiconductor devices permeability  ∞ physical properties  ∞ resistance solubility thermodynamic properties  difluorides  GS halogen compounds  . fluorine compounds  . fluorides  diffuorides  calcium fluorides  fluorspar  . halides  difluorides  difluorides  difluorides  fluorides  fluorides  fluorides  fluorides  fluorides  fluorides  | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form. GS data processing equipment . computers . digital computers . digital computer . CDC 160-A computer . CDC 1604 computer . CDC 3100 computer . CDC 3200 computer  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 15 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/45 computer PDP 11/70 computer PDP 11/70 computer PDP 12 computer PDR 12 computer PDR 12 computer PDR 14/40 computer SDS 900 series computers SDS 930 computer SDS 9300 computer SDS 9300 computer SEL computers SEL computers SEGMA 5 computer SIGMA 5 computer SIGMA 5 computer  |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability  physical properties  resistance solubility thermodynamic properties  difluorides GS halogen compounds fluorine compounds fluorides . difluorides difluorides calcium fluorides fluorides fluorides fluorides difluorides fluorspar halides calcium fluorides calcium fluorides calcium fluorides   | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form. GS data processing equipment . computers . digital computers . digital computers . CDC 160-A computer . CDC 3100 computer . CDC 3200 computer . CDC 3600 computer . CDC 3600 computer   | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 25 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11/20 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/40 computer PDP 11/40 computer PDP 11/50 computer PDP 11/60 computer PDP 11/70 computer PDP 12 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 16 computer PDP 17 computer PDP 17 computer PDP 17 computer PDP 18 computer PDP 19 computer SDD 18 computer SDD 2000 computer SDD 3000 computer   |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability ∞ physical properties ∞ resistance solubility thermodynamic properties  difluorides GS halogen compounds . fluorine compounds . fluorides diffuorides fluoriges fluorides difluorides fluorspar  difluoro compounds | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form.  GS data processing equipment . computers . digital computers  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 20 computer PDP 6 computer PDP 8 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/40 computer PDP 11/60 computer PDP 11/70 computer PDP 11/70 computer PDP 11/70 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 16 computer PDP 17 computer PDP 17 computer PDP 17 computer PDP 18 computer SDS 930 computer  |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability ∞ physical properties ∞ resistance solubility thermodynamic properties  difluorides  GS halogen compounds . fluorine compounds . difluorides diffluorides fluorispar . halides diffluorides diffluorides diffluorides difluorides fluorspar . halides diffluorides difluorides difluorides difluorides difluorides fluorspar difluoro compounds GS halogen compounds                                    | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol  ⇒ systems  digital communication USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form.  GS data processing equipment . computers . digital computers . CDC 160-A computer . CDC 3100 computer . CDC 3200 computer . CDC 3600 computer . CDC 3800 computer . CDC 3000 series computers | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 15 computer PDP 7 computer PDP 8 computer PDP 9 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/40 computer PDP 11/70 computer PDP 11/70 computer PDP 12 computer PDP 12 computer PDP 12 computer PDS 930 computer SDS 930 series computer SDS 930 computer SDS 930 computer SDS 930 computer SIGMA 5 computer SIGMA 5 computer SIGMA 9 computer SIGMA 9 computer Solomon computers SIGMA 9 computer Univac 1100 series computer Univac 1105 computer  |
| diffusivity  DEF A measure of the rate of diffusion of a substance, expressed as the diffusivity coefficient K.  RT diffusion fluid mechanics impedance Kirkendall effect mobility NDM semiconductor devices permeability ∞ physical properties ∞ resistance solubility thermodynamic properties  difluorides GS halogen compounds . fluorine compounds . fluorides diffuorides fluoriges fluorides difluorides fluorspar  difluoro compounds | RT CCD cameras digital systems digital techniques photogrammetry television cameras video equipment  digital circuits USE digital electronics  digital command systems RT numerical control remote control servocontrol ∞ systems  digital communication USE pulse communication  USE pulse communication  digital computers DEF Computers which operate with information, numerical or otherwise, represented in a digital form.  GS data processing equipment . computers . digital computers  | massively parallel processors Connection Machine MIMD (computers) SIMD (computers) PDP 15 computer PDP 20 computer PDP 6 computer PDP 8 computer PDP 10 computer PDP 11 computer PDP 11 computer PDP 11 computer PDP 11/20 computer PDP 11/40 computer PDP 11/40 computer PDP 11/40 computer PDP 11/60 computer PDP 11/70 computer PDP 11/70 computer PDP 11/70 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 15 computer PDP 16 computer PDP 17 computer PDP 17 computer PDP 17 computer PDP 18 computer SDS 930 computer  |

. . . . Univac 1110 computer differential analyzers terminal area energy management . Univac 80 computer functional integration vector quantization ... Univac 418 computer numerical integration Univac 490 computer digital television ... Univac 494 computer digital navigation DEF Television in which picture redundancy is reduced or eliminated by transmitting only the data needed to define motion in the picture, as Univac 1230 computer digital systems . digital navigation . . . Univac Larc computer represented by changes in the areas of continuous white or black. ... VAX computers navigation .... VAX-11 series computers . digital navigation . . VAX-11/780 computer air navigation television systems
. digital television GS dead reckoning analog computers analog to digital converters inertial navigation . . digital spacecraft television RT high definition television associative processing (computers) polar navigation space navigation CDC computers pulse communication computer compatible tapes surface navigation television transmission computer program integrity computer programs video compression digital radar systems computer systems programs data processing digital systems digital to analog converters . digital radar systems data converters DDP computers
differential analyzers airborne radar . digital to analog converters antiradiation missiles RT analog to digital converters data processing equipment hybrid computers IBM computers o converters radar detection digital electronics radar equipment logic circuits peripheral equipment (computers) radar receivers Turing machines plotters radar scanning Univac computers signal encoding radar targets x-y plotters radar tracking digital data digital data radar transmission GS digital to voice translators
UF DIVOT (voice translators) . digital elevation models signal analysis analog data surveillance radar computers binary data tracking radar ∞ translators ∞ data vocoders data converters digital simulation voice data processing GS models data processing . mathematical models video compression digital transducers . digital simulation video data transducers GS simulation . digital transducers interdigital transducers . computerized simulation digital electronics . . digital simulation analog simulation RT DEF The use of circuits in which there are usually only two states possible at any point. The two states can represent any of a variety of biological models (mathematics) computer systems simulation digitalis binary digits (bits) of information. Used for digital GS drugs . digitalis circuits. war games UF digital circuits digital spacecraft television
GS communication equipment
. spacecraft television analog to digital converters digitizers RT USE analog to digital converters binary digits circuits . digital spacecraft television computer components digits digital systems telecommunication (EXCLUDES FINGERS AND TOES) digital techniques . pulse communication GS symbols digital spacecraft television . alphanumeric characters digital to analog converters spacecraft television ∞ electronics .. digits . digital spacecraft television logical elements . . binary digits television systems  $RT \, \infty \, codes$ digital elevation models . digital television decimals (added September 2002) . digital spacecraft television integers DEF Digital data files consisting of terrain . spacecraft television number theory elevations for ground positions at regularly digital spacecraft television ∞ numbers spaced horizontal intervals. wireless communication digital data dihedral angle GS geometry
. Euclidean geometry . digital elevation models digital systems binary systems (digital) digital elevation models ternary systems (digital) . . angles (geometry) elevation GS digital systems dihedral angle radar maps . digital navigation RT lateral stability relief maps . digital radar systems satellite altimetry RT analog to digital converters dihedral effect binary codes terrain USE lateral stability binary digits terrain analysis biternary code topography dihydrazine data systems hydrazines digital cameras digital filters dihydrazine Computational means of attenuating digital electronics undesired frequencies in sets of time-dependent ∞ systems dihydrides systems integration data hydrogen compounds GS electromagnetic wave filters telecommunication . hydrides . electric filters . . dihydrides .. digital filters digital techniques . . . FIR filters BCH codes dihydroxyphenylalanine .. IIR filters bistable circuits USE dopa coding RT ∞ filters microwave filters computer programming digital cameras diisocyanates digital integrators digital electronics esters GS circuits error correcting codes . isocyanates digital integrators error detection codes . diisocyanates ∞ methodology
 numerical control nitrogen compounds . cyano compounds integrators digital integrators

shift registers

RT binary integration

. . isocyanates

|            | diisocyanates                            |              | . static stability                   |                     | trimers   |
|------------|--|--------------|--------------------------------------|---------------------|---|
| dikes (g   | eology)                                  |              | dimensional stability                | dimethy             | /I compounds  |
|            | rock intrusions                          |              | structural stability shell stability |                     | ed July 1992)   |
|            |  | RT           | aspect ratio                         | ,                   | organic compounds   |
| dilatation |  |              | creep properties                     |                     | dimethyl compounds  |
| USE        | stretching                               |              | curl (materials)                     |                     | dimethylhydrazines  |
| dilatatio  | onal waves                               |              | dynamic stability                    | RT                  | methyl compounds  |
| GS         | elastic waves                            |              | Roche limit                          |                     | trimethyl compounds   |
| 00         | . dilatational waves                     |              | thermal stability                    | dimath              | Ilhydrazinas  |
| RT         | longitudinal waves                       |              | tolerances (mechanics)               |                     | ylhydrazines<br>hydrazines  |
|            | P waves                                  | dimens       | ionless numbers                      | 00                  | . dimethylhydrazines  |
|            | S waves                                  | GS           | dimensionless numbers                |                     | organic compounds   |
|            | seismic waves                            |              | . Biot number                        |                     | . amines  |
| 000        | shear                                    |              | . Froude number                      |                     | dimethylhydrazines  |
|            | stretching                               |              | . Grashof number                     |                     | . dimethyl compounds  |
| 00         | waves                                    |              | . Hartmann number                    |                     | dimethylhydrazines  |
| dilatome   | aters                                    |              | . Laval number                       | RT                  | aerozine  |
| USE        | extensometers                            |              | . Lewis numbers                      |                     | methylhydrazine   |
|            |  |              | . Mach number<br>. mixing ratios     |                     | monomethylhydrazines  |
| dilatom    | etry                                     |              | . Nusselt number                     | diminuti            | 'on   |
| RT         | extensometers                            |              | . Peclet number                      | USE                 | reduction   |
| 00         | measurement                              |              | . Prandtl number                     |                     |   |
|            | thermal expansion                        |              | . Rayleigh number                    | dimmin              | g   |
| diluents   |  |              | . Reynolds number                    | RT                  | brightness  |
| RT         | additives                                |              | high Reynolds number                 |                     | light emission  |
|            | agents                                   |              | . low Reynolds number                | ×                   | oreduction  |
|            | combustion products                      |              | . Bond number                        | dimplin             | <b>a</b>  |
|            | contaminants                             |              | . Brinkman number                    | RT                  | <b>y</b><br>bulging   |
|            | dispersions                              |              | Richardson number     Schmidt number | 1(1                 | metal working   |
|            | exhaust gases                            |              | . similarity numbers                 |                     | stamping  |
|            | solvents                                 |              | Stanton number                       |                     | 1 3   |
| dilution   |  |              | . Strouhal number                    | Dining              | Philosophers Problem  |
| GS         | dilution                                 | RT           | dimensional analysis                 | RT                  | distributed processing  |
| 00         | . geometric dilution of precision        |              | fluid flow                           |                     | interprocessor communication  |
| RT         | attenuation                              |              | heat transfer                        |                     | problem solving   |
|            | concentration (composition)              | c            | ∘ numbers                            |                     | synchronism   |
|            | diffusion                                |              | scaling laws                         | dinitrate           | 98  |
|            | dispersing                               | dimens       | iona                                 | GS                  | nitrogen compounds  |
|            | disposal                                 | GS           | dimensions                           |                     | . nitrates  |
|            | dissipation                              | 00           | . depth                              |                     | dinitrates  |
|            | dissolving                               |              | . diameters                          |                     |   |
|            | low concentrations mixing                |              | . film thickness                     | diodes              |   |
|            | purity                                   |              | . fractals                           | UF                  | p-i-n diodes  |
| 000        | reduction                                |              | . height                             | GS                  | electronic equipment  |
|            | waste disposal                           |              | scale height                         |                     | diodes  |
|            | •  |              | . length                             |                     | crystal rectifiers  |
|            | ydrinate                                 |              | diffusion length                     |                     | plasma diodes semiconductor diodes  |
| GS         | drugs                                    |              | . radii<br>Larmor radius             |                     | avalanche diodes  |
|            | . antihistaminics                        |              | . target thickness                   |                     | cryosar   |
|            | dimenhydrinate                           |              | . width                              |                     | Barritt diodes  |
|            | organic compounds<br>. amines            | RT           | amplitudes                           |                     | germanium diodes  |
|            | dimenhydrinate                           |              | ∘ design                             |                     | Gunn diodes   |
|            | . cyclic compounds                       |              | dimensional analysis                 |                     | transferred electron devices  |
|            | heterocyclic compounds                   |              | distance                             |                     | junction diodes   |
|            | dimenhydrinate                           |              | drawings                             |                     | MIM diodes  |
|            |  |              | engineering drawings                 |                     | step recovery diodes light emitting diodes                                    |
|            | onal analysis                            |              | fineness ratio                       |                     | parametric diodes   |
| KI ∞       | applications of mathematics aspect ratio |              | geometry<br>magnitude                |                     | photodiodes   |
|            | dimensionless numbers                    |              | particle size distribution           |                     | Schottky diodes   |
|            | dimensions                               |              | relativistic effects                 |                     | tunnel diodes   |
|            | fibers (mathematics)                     | c            | ∘ span                               |                     | varactor diodes   |
|            | fineness ratio                           |              | thickness                            |                     | thermionic diodes   |
|            | fluid flow                               |              | topology                             |                     | cesium diodes   |
|            | parameterization                         |              | units of measurement                 | RT                  | electron tubes  |
|            | scaling laws                             |              | volume                               |                     | ion implantation  |
|            | similarity numbers                       | -11          |                                      |                     | p-i-n junctions<br>rectifiers   |
|            | thickness ratio                          | dimerc       | aproi<br>sulfur compounds            |                     | semiconductor devices   |
|            | units of measurement                     | 93           | . thiols                             |                     | solions   |
| dimensi    | onal measurement                         |              | dimercaprol                          |                     | TRAPATT devices   |
| RT         | deformeters                              |              |                                      |                     | triodes   |
|            | distance measuring equipment             | dimeriz      | ation                                |                     | varactor diode circuits   |
|            | ellipsometry                             | GS           | synthesis (chemistry)                |                     |   |
| ∞          | measurement                              |              | polymerization                       |                     | ransistor-Logic integ circuits  |
|            | micrometers                              |              | . dimerization                       | USE                 | DTL integrated circuits   |
|            | size determination                       | RT           | copolymerization                     | D:                  |   |
| dimone:    | onal stability                           | dimers       |                                      | <b>Dione</b><br>DEF | One of the natural satellites of Seture                                       |
| GS         | onal stability<br>mechanical properties  | almers<br>GS | oligomers                            |                     | One of the natural satellites of Saturn at a mean distance of 378,000 kilome- |
| 93         | . dimensional stability                  | GS           | . dimers                             | ters.               | at a mean distance of 5/0,000 Kilome-   |
|            | structural stability                     |              | prepolymers                          | GS                  | celestial bodies  |
|            | shell stability                          |              | . dimers                             |                     | . natural satellites  |
|            | stability                                | RT           | monomers                             |                     | icy satellites  |
|            |  |              |                                      |                     |   |

| Dione   | the plane normal to its axis. The length specified   | homopolar generators                              |
|---|--|---|
|   |  |   |
| Saturn satellites   | is the overall length. SN (single dipole antennas)   | inverted converters (DC to AC)                    |
| Dione   | GS antennas  | voltage converters (DC to DC)                     |
| RT Saturn (planet)  | . directional antennas                               | direct current concreters                         |
| Part and a second and   | dipole antennas                                      | direct current generators                         |
| diophantine equation  | RT antenna arrays                                    | USE DC generators                                 |
| GS number theory  | antenna design                                       |   |
| . diophantine equation  | backfire antennas                                    | direct lift controls                              |
| RT ∞ equations  | ∞ dipoles  | RT ∞ control                                      |
| 1   | directors (antenna elements)                         | lift devices                                      |
| diorite   |  |   |
| GS rocks  | lens antennas  | direct numerical simulation                       |
| . igneous rocks   | linear arrays  | (added October 1997)                              |
|   | log periodic antennas                                |   |
| diorite   | log spiral antennas                                  | DEF A computationally intensive numerical         |
| RT minerals   | monopole antennas                                    | approach used in computational fluid dynamics,    |
| soils   | omnidirectional antennas                             | which leads to the nearly exact solution of a     |
|   | parasitic elements (antennas)                        | system of nonlinear, unsteady, time-dependent,    |
| dioxides  | radar antennas                                       | three-dimensional equations. Applications in-     |
| GS chalcogenides  | turnstile antennas                                   | clude aerodynamics, turbulent combustion, en-     |
| . oxides  |  | ergy transfer theory and non-Newtonian effects.   |
| dioxides  | Yagi antennas  | UF DNS (numerical analysis)                       |
| carbon dioxide  | Parts and the  | GS analysis (mathematics)                         |
|   | dipole moments                                       | , ,   |
| flint   | GS moments   | . numerical analysis                              |
| hydrogen peroxide   | . dipole moments                                     | direct numerical simulation                       |
| silicon dioxide   | electric moments                                     | simulation  |
| quartz  | magnetic moments                                     | . direct numerical simulation                     |
| coesite   | RT domains   | RT computational fluid dynamics                   |
| stishovite  |  | low Reynolds number                               |
| sulfur dioxides   | electrical properties                                | Navier-Stokes equation                            |
| RT Karl Fischer reagent   | magnetic domains                                     | reacting flow                                     |
| S S   | magnetic properties                                  | 9   |
| peroxides   | Van der Waals forces                                 | turbulent flow                                    |
| sulfur oxides   |  |   |
| thorium oxides  |  | direct power generators                           |
| titanium oxides   | SN (USE OF A MORE SPECIFIC TERM IS                   | UF energy converters                              |
|   | RECOMMENDEDCONSULT THE TERMS                         | GS electric generators                            |
| diphenyl compounds  | LISTED BELOW)  | . direct power generators                         |
| GS organic compounds  | DEF Systems composed of two, separated,              | DC generators                                     |
| . hydrocarbons  | equal electric or magnetic charges of opposite       |   |
|   | sign.  | homopolar generators                              |
| diphenyl compounds  | RT dipole antennas                                   | electrostatic generators                          |
| diphenyl hydantoin  | electric charge                                      | fuel cells  |
| RT ∞ chemical compounds   |  | biochemical fuel cells                            |
|   | electric dipoles                                     | hydrogen oxygen fuel cells                        |
| diphenyl hydantoin  | magnetic dipoles                                     | molten carbonate fuel cells                       |
| GS drugs  | magnetic poles                                       | phosphoric acid fuel cells                        |
| . antihistaminics   | monopoles  | regenerative fuel cells                           |
| diphenyl hydantoin  | orbiting dipoles                                     | •   |
|   | polarity   | solid oxide fuel cells                            |
| organic compounds   | ∞ poles  | magnetohydrodynamic generators                    |
| . amines  |  | photoelectric generators                          |
| diphenyl hydantoin  | quadrupoles  | photovoltaic cells                                |
| . hydrocarbons  | zwitterions  | solar cells                                       |
| diphenyl compounds  |  | vertical junction solar cells                     |
| diphenyl hydantoin  | dipping  | primary batteries                                 |
| · · · · · · · · · · · · · · · · · · ·   | RT baths   |   |
| diphosphates  | coatings   | alkaline batteries                                |
| GS phosphorus compounds   | quenching (cooling)                                  | dry cells   |
| ·   | submerging   | magnesium cells                                   |
| . phosphates  | 0 0  | nickel zinc batteries                             |
| diphosphates  | wetting  | metal air batteries                               |
| adenosine diphosphate   | Dinas amortian                                       | zinc-oxygen batteries                             |
|   | Dirac equation                                       | sodium sulfur batteries                           |
| diphtheria  | GS wave equations                                    |   |
| GS diseases   | . Dirac equation                                     | thermal batteries                                 |
| . infectious diseases   | RT ∞ equations                                       | radioisotope batteries                            |
| bacterial diseases  | field theory (physics)                               | SNAP 7  |
|   | Klein-Gordon equation                                | SNAP 9A   |
| diphtheria  | Lorentz transformations                              | SNAP 11   |
| RT toxic diseases   | quantum theory                                       | SNAP 13   |
|   | quantum theory                                       | SNAP 15   |
| diplexers   | direct breedenct actallites                          | SNAP 17   |
| GS antenna components   | direct broadcast satellites                          |   |
| . antenna couplers  | DEF Domestic satellites used for direct TV           | SNAP 19   |
| diplexers   | transmission to home receivers. Used for DBS         | SNAP 21   |
| circuits  | (satellites).  | SNAP 23   |
|   | UF DBS (satellites)                                  | SNAP 27   |
| . diplexers   | GS artificial satellites                             | SNAP 29   |
| communication equipment   | . communication satellites                           | thermionic converters                             |
| diplexers   |  | SNAP 13   |
| couplers  | direct broadcast satellites                          |   |
| . antenna couplers  | RT broadcasting                                      | solar blankets                                    |
| diplexers   | domestic satellite communications                    | thermoelectric generators                         |
| RT couples  | systems  | SNAP 3  |
| radar antennas  | satellite television                                 | SNAP 7  |
|   | satellite transmission                               | SNAP 9A   |
| radar equipment   | space commercialization                              | SNAP 10A  |
| television equipment  | ·  | SNAP 11   |
| transformers  | space law  |   |
|   | telecommunication                                    | SNAP 15   |
| dipolar ions  | television transmission                              | SNAP 17   |
| (added October 2001)  |  | SNAP 19   |
| USE zwitterions   | direct current                                       | SNAP 21   |
| COL EMILLOHOIS  | UF DC (current)                                      | SNAP 23   |
| dipole antennas   | GS electric current                                  | SNAP 27   |
|   | . direct current                                     | SNAP 29   |
| SN (SINGLE DIPOLE ANTENNAS) DEF A straight radiator, usually fed in the                     |  |   |
|   |  |   |
| DEF A straight radiator, usually fed in the center, and producing a maximum of radiation in | RT alternating current current converters (AC to DC) | solar sea power plants RT auxiliary power sources |

 $\infty \, converters$ ∞ reaction control manuals electric batteries rocket engine control directors (antenna elements) satellite attitude control ∞ electric cells electric energy storage satellite control GS antenna components parasitic elements (antennas) energy absorption films energy conversion . directors (antenna elements) energy conversion efficiency directional couplers antennas . parasitic elements (antennas) generators GS antenna components heat generation . antenna couplers directors (antenna elements) photoelectric cells . directional couplers dipole antennas couplers radio receivers solar generators . antenna couplers reflectometers solar total energy systems spacecraft power supplies . directional couplers reflectors coupling rods couplings Yagi antennas ∞ direction (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.-CONSULT THE TERMS LISTED BELOW) impedance matching SN Dirichlet problem microstrip transmission lines boundary value problems microwave coupling GS autonomy transmission lines Dirichlet problem azimuth differential equations vokes bearing (direction) hyperbolic differential equations directivity directional solidification (crystals) ∞ problems line of sight DEF Controlled solidification management growth) of molten metal in a casting so as to dirigibles reversing USE airships provide feed metal to the solidifying front of the casting. direction finders (radio) dirt crystallization USE radio direction finders soils directional solidification (crystals) GS dirt growth direction finding RT contaminants . crystal growth DEF A procedure or process for locating or . . directional solidification dust localizing the origin of radar, acoustical, or optiimpurities (crystals) cal emissions. particles solidification RT bearing (direction) rocks directional solidification (crystals) radio direction finders containerless melts signal processing eutectic composites (added December 1996) phase transformations directional antennas distributed interactive simulation Antennas that radiate or receive radio directional stability DEF The property of an aircraft, rocket, etc., enabling it to restore itself from a yawing or disabilities signals more efficiently in some directions than handicaps UF in others. Used for tracking antennas. auditory defects UF tracking antennas RT sideslipping condition. blindness GS antennas GS dynamic characteristics . dynamic stability frustration . directional antennas . . dipole antennas ∞ inhibition . . helical antennas . . . attitude stability paralysis .. horn antennas wheelchairs .... directional stability . . lens antennas . . . gyroscopic stability . . log periodic antennas disarmament stability . . loop antennas RT armed forces (foreign) . dynamic stability armed forces (United States) . . radar antennas . . motion stability international cooperation . . . radant . . . attitude stability weapons . . reflector antennas ... directional stability . . . parabolic antennas . . . . gyroscopic stability . . . two reflector antennas disasters aerodynamic stability DEF Large-scale drought, glacier move-. . rhombic antennas aircraft stability ment, floods, fires, storms, etc. . . slot antennas controllability accidents . . steerable antennas flow stability casualties . . . inertialess steerable antennas horizontal orientation emergencies . Yagi antennas hovering stability first aid RT antenna arrays lateral oscillation sabotage antenna gain lateral stability antenna radiation patterns longitudinal stability backlobes rotary stability (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) boresight error spacecraft stability boresights endfire arrays stability augmentation vertical orientation detonation microwave antennas dispersing vaw microwave coupling disposal directivity
DEF The ability of an antenna to radiate or missile antennas drainage monopulse antennas effluents omnidirectional antennas receive more energy in some directions. ejection parasitic elements (antennas) alignment electric discharges radio antennas electrodeless discharges anisotropy Sommerfeld approximation collimation elimination crystallography emission directional control ∞ direction exhausting vector control field strength expellants GS attitude control instrument orientation explosions . directional control isotropy outlets . thrust vector control look angles (electronics) releasing aircraft control relieving ∞ orientation ring discharge automatic control ∞ control directories unloading DEF Alphabetical, geographical, or classified listings by field of persons, organizations, helicopter control ventina jet control programs and/or objects such as instruments, devices, and products. Use of this term excludes discharge coefficient lateral control

directories in computers.

RT handbooks

coefficients

. flow coefficients

. . discharge coefficient

GS

longitudinal control

manual control

missile control

RT axial flow ... Discovery (Orbiter) temporal logic flow velocity reentry vehicles influence coefficient . recoverable spacecraft discriminant functions discriminant analysis (statistics) mass flow factors .. reusable spacecraft USE nozzle flow . . . space shuttles .... Space Shuttle orbiters discrimination nozzle geometry nozzle thrust coefficients . . . . Discovery (Orbiter) GS discrimination wall flow manned space flight . sensory discrimination Space Shuttle mission 41-D ... brightness discrimination discharge tubes Space Shuttle mission 51-A . . tactile discrimination USE gas discharge tubes Space Shuttle mission 51-C . . visual discrimination Space Shuttle mission 51-D spectral mixture analysis dischargers RT acuity Space Shuttle mission 51-G dischargers GS comparator circuits Space Shuttle mission 51-I static dischargers differentiation ∞ spacecraft RT dissipation selectivity neutralizers signal detection discrete address beacon system signal detectors DEF Radar beacon system with discretely disciplining target recognition addressable transponders and a ground-airliabilities RT ground data link for automated air traffic control morale discriminators (FAA). penalties DEF In general, a circuit in which output GS landing aids depends upon the difference between an input . airport beacons discoloration signal and a reference signal. color . discrete address beacon system RT GS circuits navigation aids damage . discriminators . beacons degradation . . Fraunhofer line discriminators . . airport beacons fading . frequency discriminators staining ... discrete address beacon RT analog computers system anticoincidence detectors disconnect devices . . radar beacons comparators disconnectors ... discrete address beacon error signals RT circuit breakers system intermodulation connectors radar equipment RC circuits decoupling . radar beacons . discrete address beacon system dumping ∞ discussion air traffic control ejection (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN electric connectors data links electric fuses ground-air-ground communication electric relays secondary radar conferences evaluation ∞ relay ∞ systems releasing examination reports discrete cosine transform reviewing disconnectors (added March 1994) USE disconnect devices DCT (mathematics) diseased vegetation GS transformations (mathematics) discontinuity USE plant diseases discrete cosine transform DEF A break in sequence or continuity of data compression anything. diseases discrete functions (RESTRICTED TO DISEASES IN ANIMALS INCLUDING MAN-FOR DISEASES IN PLANTS SEE PLANT DISEASES) diseases GS discontinuity image processing shock discontinuity signal processing analysis (mathematics) video compression catastrophe theory . albinism Gibbs phenomenon . anemias discrete functions incoherence . arteriosclerosis GS functions (mathematics) vortex streets arthritis discrete functions Discos (satellite attitude control)
DEF A satellite orbit "DIsturbance COmpendiscrete cosine transform . ataxia discretization (mathematics) distribution functions atelectasis . bone demineralization sation System" designed to maintain an object . colic (proof object) in correct orbit by detecting forces histograms . cyanosis normal density functions and compensating for them by using thrusters. diabetes mellitus attitude stability Poisson density functions encephalitis probability density functions Nova satellites epilepsy probability distribution functions satellite perturbation . eye diseases spacecraft stability statistical analysis . . asthenopia Transit satellites . . astigmatism discretization (mathematics) . . cataracts Discoverer recovery capsules (added June 1997) . . conjunctivitis UF DRC (capsule) analysis (mathematics) . . glaucoma space capsules GS . numerical analysis keratitis Discoverer recovery capsules . . approximation . . phoria recovery parachutes . discretization (mathematics) . fat embolisms spacecraft recovery RT discrete functions . fibrosis . cystic fibrosis Discoverer satellites GS artificial satellites discriminant analysis (statistics) headache DEF A linear combination of a set of N . heart diseases Discoverer satellites variables that will classify (into two different Agena A rocket vehicle . . angina pectoris classes) the events or items for which the mea-. . coronary artery disease Agena B rocket vehicle surements of the N variables are available, with . . infarction Agena rocket vehicles the smallest proportion of misclassifications. . . . myocardial infarction Thor Agena launch vehicle Used for discriminant functions. . infectious diseases discriminant functions discovering . . airborne infection USE exploration functions (mathematics) . . bacterial diseases discriminant analysis (statistics) . . . cholera Discovery (Orbiter) statistical analysis . . . diphtheria Space Shuttle Orbiter 103 discriminant analysis (statistics) . . . keratitis GS manned spacecraft RT ∞ classifying multivariate statistical analysis . . . syphilis

populations

. space shuttles . . Space Shuttle orbiters . . . tuberculosis

. . . typhoid

|           | typhus                         | damage                               | depersonalization                  |
|-----------|--------------------------------|--------------------------------------|------------------------------------|
|           | conjunctivitis                 | decay                                | ∞ depression                       |
|           | dermatitis                     | decomposition                        | detachment                         |
|           | contact dermatitis             | deterioration                        | diseases                           |
|           | fungal diseases                | flaking                              | ∞ disturbances                     |
|           | hepatitis                      | grinding (comminution)               | dithers                            |
|           | meningitis                     | ionization                           | emotional factors                  |
|           | parasitic diseases             | lysogenesis                          | human behavior                     |
|           | viral diseases                 |                                      | jet lag                            |
|           | acquired immunodeficiency      | disk galaxies                        | psychology                         |
|           | syndrome                       | DEF Galaxies consisting of a         |                                    |
|           | influenza                      | of a spheroidal aggregation of       |                                    |
|           | poliomyelitis                  | surrounding disk of stars fanning    |                                    |
|           | smallpox                       | thin layer.                          | disorientation                     |
|           | •                              | GS celestial bodies                  | SN (EXCLUDES PHYSICAL OR           |
|           | . kidney diseases              | . galaxies                           | MATHEMATICAL MISALIGNMENT)         |
|           | kidney stones                  | 9                                    | GS disorientation                  |
|           | . nephritis                    | disk galaxies                        | . desynchronization (biology)      |
|           | . lithiasis                    | RT astrophysics                      | . disorders                        |
|           | . metabolic diseases           | barred galaxies                      | . jet lag                          |
|           | . narcolepsy                   | blazars                              |                                    |
|           | . neurasthenia                 | elliptical galaxies                  |                                    |
|           | . neuritis                     | galactic clusters                    | Coriolis effect                    |
|           | . occupational diseases        | galactic evolution                   | detachment                         |
|           | . osteoporosis                 | galactic halos                       | dithers                            |
|           | . paralysis                    | galactic nuclei                      | dizziness                          |
|           | . Parkinson disease            | galactic rotation                    | irrationality                      |
|           |                                | galactic structure                   | misalignment                       |
|           | . pulmonary lesions            | local group (astronomy)              | psychological effects              |
|           | . radiation sickness           | 0 1 \ 77                             | psychology                         |
|           | . respiratory diseases         | radio galaxies                       | staggering                         |
|           | aerosinusitis                  | spiral galaxies                      | weightlessness                     |
|           | asthma                         | star clusters                        | พษายูกแบวอกเบวอ                    |
|           | emphysema                      | Virgo galactic cluster               | dianatahing                        |
|           | influenza                      |                                      | dispatching                        |
|           | pneumonia                      | disk operating system (DOS)          | USE distributing                   |
|           | tuberculosis                   | (added October 1988)                 |                                    |
|           | . rheumatic diseases           | DEF A program with which the         | ne computer dispensers             |
|           | . tachycardia                  | performs such mundane but use        |                                    |
|           |                                | storing, locating, and retrieving fi |                                    |
|           | . thrombopenia                 | reading the keyboard, and issuing    |                                    |
|           | . thrombosis                   | print information.                   | materials handling                 |
|           | . tooth diseases               |                                      | rollers                            |
|           | . toxic diseases               | GS computer programs                 | oprovoro                           |
|           | benzene poisoning              | . computer systems progr             | unio                               |
|           | beryllium poisoning            | operating systems (cor               |                                    |
|           | carbon monoxide poisoning      | disk operating syste                 | SN (OF MATERIALS OR PARTICLES)     |
|           | carbon tetrachloride poisoning | RT assembler routines                | RT agitation                       |
|           | hydrocarbon poisoning          | compilers                            | assimilation                       |
|           | lead poisoning                 | computer information sec             | Irity                              |
|           | . tumors                       | computer systems design              | chemical release modules           |
|           |                                | ∞ disks                              | circulation                        |
|           | neoplasms                      | graphical user interface             | cloud dispersal                    |
|           | cancer                         | input/output routines                | colloiding                         |
|           | leukemias                      |                                      | deflection                         |
|           | . ulcers                       | magnetic disks                       | diffusion                          |
|           | . urolithiasis                 | ∞ routines                           | dilution                           |
| RT        | chronic conditions             | ∞ systems                            | ∞ discharge                        |
|           | creatinine                     |                                      | ∞ dispersion                       |
|           | cures                          | ∞ disks                              | dispersions                        |
|           | diagnosis                      | SN (USE OF A MORE SPECIFIC           | TERIVITO " · ,                     |
|           | disorders                      | RECOMMENDEDCONSULT                   |                                    |
|           | etiology                       | LISTED BELOW) RT actuator disks      | dissipation                        |
|           | medical science                |                                      | distributing                       |
|           |                                | disk operating system (DO            | , alottibution                     |
|           | necrosis                       | disks (shapes)                       | entrainment                        |
|           | pathogenesis                   | intervertebral disks                 | exhausting                         |
|           | pathological effects           | magnetic disks                       | fog dispersal                      |
|           | plant diseases                 |                                      | homogenizing                       |
|           | pneumothorax                   | disks (shapes)                       | Langevin formula                   |
|           | prophylaxis                    | GS disks (shapes)                    | permeating                         |
|           | signs and symptoms             | . actuator disks                     | pollution transport                |
|           | symptomology                   | . intervertebral disks               | ∞ reduction                        |
|           | therapy                        | . rotating disks                     |                                    |
|           | vaccines                       | RT accretion disks                   | releasing                          |
|           | veterinary medicine            | aerodynamic configuration            | scattering                         |
|           | veterinary medicine            | bodies of revolution                 | ∞ separation                       |
| dishes    |                                | circular plates                      | shaking                            |
| USE       | parabolic reflectors           | ∞ disks                              | spraying                           |
| USL       | parabolic reflectors           |                                      | spreading                          |
| diciliais | loo                            | ∞ plates                             | stirring                           |
| disilicio |                                | video disks                          | suspending (mixing)                |
| GS        | silicon compounds              | dialogations (materials)             | swirling                           |
|           | . silicides                    | dislocations (materials)             | · ·                                |
|           | disilicides                    | GS dislocations (materials)          |                                    |
| RT        | silanes                        | . crystal dislocations               | SN (USE OF A MORE SPECIFIC TERM IS |
|           | silicates                      | edge dislocations                    | RECOMMENDEDCONSULT THE TERMS       |
|           |                                | screw dislocations                   | LISTED BELOW)                      |
| disinfec  | tants                          | RT displacement                      | RT deviation                       |
|           | antiseptics                    | flow theory                          | diffusion                          |
|           | p                              | ∞ materials                          | dispersing                         |
| disinte   | gration                        | materials                            | dispersions                        |
| RT        | atomizing                      | disorders                            | dust                               |
| 13.1      | comminution                    | GS disorientation                    | Kramers-Kronig formula             |
|           |                                |                                      |                                    |
|           | crushers                       | . disorders                          | magnetic dispersion                |
|           | crushing                       | RT chronic conditions                | mixers                             |

random errors shearography target simulators statistical analysis **TERCOM** variability video data display devices wave dispersion video equipment data readout systems viewing display systems dispersion precipitation hardening visual aids visual displays USE precipitation hardening visual control display devices warning systems approach indicators dispersion strengthening flat panel displays (added February 1994) display systems flow direction indicators GS dispersion strengthening USE display devices . . wind vanes . oxide dispersion strengthening gyro horizons disposal alloys head-up displays GS disposal hardening (materials) helmet mounted displays heat resistant alloys . waste disposal kinoform . . composting ∞ metallurgy microvision landing aid ∞ strenath . . hazardous material disposal (in . plasma display devices space) . position indicators RT agitation dispersions . plan position indicators DEF A two-phase system consisting of finely devided particles dispersed in a solid, ∞ containers . . radio direction finders decontamination . . spacecraft position indicators deletion liquid, or gas. . radarscopes dilution GS mixtures . . plan position indicators . speed indicators . dispersions ∞ discharge dispersing . tachometers . . . aerosols dissipation airborne surveillance radar aircraft equipment distributing . . . . fog ∞ distribution . . . colloidal propellants aircraft instruments dumping . . emulsions audio visual equipment ejection . . . photographic emulsions automatic typewriters elimination . nuclear emulsions blinking emptying exhausting expulsion . . liquid-gas mixtures cancellation circuits . . . aerosols cathode ray tubes . . . . fog charts isolation . . plastisols cockpit weather information systems jettisoning . . smoke computer graphics materials handling RT Brownian movements consoles colloidal generators materials recovery control boards crop dusting removal crew procedures (inflight) diluents sinks crew procedures (preflight) dispersing spreading data recorders dispersion ∞ storage detectors unloading dust dials ferrofluids diffractive optics disrupting fog dispersal electrochromism RT ∞ interference fumes flight control rupturing mist flight instruments particles flying spot scanners particulates dissection graphical user interface RT autopsies slurries human-computer interface pathology slurry propellants image reconstruction suspending (mixing) image tubes dissipation ∞ suspensions imagery images dissipators UĖ dissipation GS displacement indicating instruments instrument landing systems . energy dissipation . ohmic dissipation DEF A vector quantity that specifies the change of position of a body the change of position of a body or particle usually measured from the mean position or position of rest. instrument receivers atmospheric turbulence attenuation light emitting diodes damping GS displacement decontamination lists crack opening displacement man machine systems depletion amplitudes map matching guidance diffusion bending monitors dilution bias navigation aids dischargers boresight error perceptual errors dispersing deflection photographs disposal deformation photopolymers exhausting dislocations (materials) picture tubes pollution distortion planetariums purification divergence plots ∞ reduction engines plotters removal flexible spacecraft plotting waste disposal heaving printers (data processing) kinking promotion dissipators level (quantity) radar USE dissipation magnitude radar resolution ∞ motion rapid ballistics identification dissociation nutation raster scanning DEF The separation of a complex molecule positioning into constituents by collision with a second body, reading skewness readout or by absoption of a photon. The product of temperature inversions dissociation of a molecule is two ions, one real time operation variations positively charged and one negatively charged. receivers vibration Used for molecular dissociation. remote consoles scientific visualization molecular dissociation displacement measurement ∞ screens GS dissociation (MEASUREMENT IN CHANGE OF SN . autoionization situational awareness POSITION)
mechanical measurement . biodegradability GS solar compasses

∞ strip

∞ systems

displacement measurement

boresight error

. gas dissociation

. photodissociation

## dissolved gases

|                        | and the bracks                      |                      | (t)  |           |   |
|------------------------|-------------------------------------|----------------------|--|-----------|---|
|                        | . radiolysis . thermal dissociation |                      | range (extremes) takeoff runs                |           | astigmatism   |
| RT                     | atomic recombination                |                      | • travel                                     |           | asymmetry<br>bending                                |
| 111                    | chemical equilibrium                | Ŭ                    | Tully-Fisher relation                        |           | buckling  |
|                        | Debye-Huckel theory                 |                      | runy i forfor rotation                       |           | camber  |
|                        | decomposition                       | distanc              | e measuring equipment                        |           | deflection  |
|                        | electrodissolution                  |                      | A radio aid to navigation which pro-         |           | deformation   |
|                        | heat of dissociation                |                      | istance information by measuring total       |           | deviation   |
|                        | ionization                          |                      | ip time of transmission from an integrator   |           | displacement  |
|                        | molecular diffusion                 |                      | nsponder and return.                         |           | expansion   |
|                        | molecular interactions              | GS                   | measuring instruments                        |           | failure   |
| مان می داد ده          | lan                                 |                      | . distance measuring equipment altimeters    |           | flexing   |
| dissoluti<br>USE       | dissolving                          |                      | laser altimeters                             |           | folding   |
| USL                    | uissolvilig                         |                      | radio altimeters                             |           | frequency pulling geometric accuracy                |
| dissolv                | ed gases                            |                      | geodimeters                                  |           | ghosts  |
| DEF                    | Gases in solution.                  |                      | range finders                                |           | heaving   |
| GS                     | gases                               |                      | optical range finders                        |           | refraction  |
|                        | dissolved gases                     |                      | laser range finders                          |           | skewness  |
| RT                     | aeration                            |                      | stadimeters                                  |           | stretching  |
|                        | dissolving                          |                      | tellurometers                                |           | swelling  |
|                        | mixtures                            | RT                   | automatic flight control                     |           | temperature inversions                              |
|                        | oxygenation                         |                      | automatic landing control                    |           | twisting  |
|                        | solubility                          |                      | Decca navigation                             |           | variations  |
|                        | solutions                           |                      | depth measurement                            |           | warpage   |
| dieeoly                | ed organic matter                   |                      | dimensional measurement                      |           | wrinkling   |
|                        | ed October 1997)                    |                      | LORAC navigation system<br>loran             | dictribu  | stad amplifiara                                     |
| UF                     | gelbstoff                           |                      | lunar rangefinding                           |           | ited amplifiers                                     |
|                        | chlorophylls                        |                      | micrometers                                  | GS        | amplifiers . distributed amplifiers                 |
|                        | organic solids                      |                      | navigation                                   | RT        | frequency response                                  |
|                        | phytoplankton                       |                      | navigation aids                              | 131       | transmission lines                                  |
|                        | sea water                           |                      | omnidirectional radio ranges                 |           | transmission into                                   |
|                        | sediments                           |                      | position indicators                          | distribut | ed Bragg reflector lasers                           |
|                        | solutes                             |                      | radar  | USE       | DBR lasers  |
|                        | water color                         |                      | radar equipment                              |           |   |
|                        | water pollution                     |                      | radar measurement                            | distribu  | ited feedback lasers                                |
| -11:                   |                                     |                      | radar navigation                             | DEF       | Lasers containing a periodic medium                 |
| <b>dissolv</b> i<br>UF | •                                   |                      | radio navigation                             |           | rovides the necessary feedback for laser            |
| GS                     | dissolution<br>mixing               |                      | range errors                                 | action.   |   |
| 00                     | . dissolving                        |                      | Shoran                                       | GS        | stimulated emission devices                         |
| RT                     | aeration                            |                      | solar compasses<br>sonar                     |           | . lasers  |
|                        | chemical attack                     |                      | sound ranging                                | RT        | distributed feedback lasers DBR lasers              |
|                        | chemical cleaning                   |                      | Souria ranging                               | KI        | feedback amplifiers                                 |
|                        | cleaning                            | distance             | e perception                                 |           | feedback control                                    |
|                        | compounding                         |                      | space perception                             |           | heterojunction devices                              |
|                        | corrosion                           |                      |  |           | laser outputs                                       |
|                        | diffusion                           | distillat            | ion  |           | lasing  |
|                        | dilution                            | GS                   | distillation                                 |           | semiconductor lasers                                |
|                        | dissolved gases                     |                      | . stripping (distillation)                   |           | solid state lasers                                  |
|                        | extraction                          | RT                   | chemical fractionation                       |           |   |
|                        | homogenizing                        |                      | concentrating                                | distribu  | ted interactive simulation                          |
|                        | leaching precipitation (chemistry)  |                      | condensing                                   |           | ed December 1996)                                   |
| ~                      | separation                          |                      | demineralizing desalinization                | SN        | ((Multiple simultaneous use of simulation in        |
| ~                      | softening                           |                      | diffusion                                    | UF        | networks))<br>DIS                                   |
|                        | solubility                          |                      | evaporation                                  | GS        | simulation  |
|                        | solutes                             |                      | flashing (vaporizing)                        |           | . computerized simulation                           |
| ~                      | solution                            |                      | materials recovery                           |           | distributed interactive simulation                  |
|                        | solvent retention                   |                      | purging                                      | RT        | computer networks                                   |
|                        | solvents                            |                      | purification                                 |           | distributed processing                              |
|                        | washing                             |                      | rectification                                |           |   |
|                        |                                     |                      | refining                                     |           | ited memory   |
| dissymn                |                                     | ۰                    | o separation                                 |           | ed April 1997)                                      |
| USE                    | asymmetry                           |                      | tar sands                                    | GS        | memory (computers)                                  |
| dictoro                | •                                   |                      | vaporizing                                   | DT        | . distributed memory                                |
| distanc<br>GS          | e<br>distance                       |                      | washing                                      | RT        | architecture (computers)                            |
| 63                     | . Debye length                      | dictillat            | ion equipment                                |           | distributed processing interprocessor communication |
|                        | . diffusion length                  | RT                   | columns (process engineering)                |           | multiprocessing (computers)                         |
|                        | . miss distance                     | 101                  | condensers (liquefiers)                      |           | parallel processing (computers)                     |
|                        | . optical slant range               | ۰                    | equipment                                    |           | paramer processing (comparers)                      |
|                        | . radar range                       |                      | stills                                       | distribu  | ited parameter systems                              |
|                        | . radio range                       |                      |  |           | control theory                                      |
|                        | . range and range rate tracking     | distorti             | on   |           | differential equations                              |
|                        | . reentry range                     | DEF                  | An undesired change in waveform. In a        |           | independent variables                               |
| RT                     | aircraft performance                |                      | used for transmission or reproduction of     |           | integral equations                                  |
|                        | aircraft specifications             |                      | a failure by the system to transmit or       |           | linear circuits                                     |
|                        | altitude                            |                      | ce a received waveform with exactness.       |           | linear systems                                      |
|                        | depth                               |                      | lesired change in the dimensions or          |           | network analysis                                    |
|                        | dimensions                          |                      | of a structure as, distortion of a fuel tank |           | nonlinear systems                                   |
|                        | focusing                            | due to a<br>ture gra | abnormal stresses or extreme tempera-        | ~         | o systems   |
|                        | geometry<br>height                  | GS                   | distortion                                   | dietribu  | ited processing                                     |
|                        | length                              | 63                   | . flow distortion                            |           | Processing with multiple small comput-              |
|                        | position (location)                 |                      | . signal distortion                          |           | are capable of operating independently              |
|                        | proximity                           |                      | . surface distortion                         |           | communicate over a network with each                |
|                        | radar navigation                    | RT                   | aberration                                   |           | nd/or a central computer.                           |
| ~                      | range                               |                      | abnormalities                                |           | data processing                                     |
| _                      |                                     |                      |  |           | <del>-</del>  |

|            | . distributed processing               |              | Kossel pattern                            |            | storms                          |
|------------|--|--------------|---|------------|---------------------------------|
|            | . grid computing (computer             |              | rainbows                                  |            | sudden ionospheric disturbances |
|            | networks)                              |              | spatial distribution                      |            | vortices                        |
| RT         | architecture (computers)               |              | . horizontal distribution                 |            |                                 |
|            | client server systems                  |              | vertical distribution                     |            | ing functions                   |
|            | computer networks                      |              | star distribution                         | GS         | functions (mathematics)         |
|            | computer systems design                |              | geographic distribution                   |            | disturbing functions            |
|            | Dining Philosophers Problem            |              | . strain distribution                     | RT         | perturbation theory             |
|            | distributed interactive simulation     |              | . stress distribution                     |            |                                 |
|            | distributed memory                     |              | stress concentration                      | disulfid   |                                 |
|            | microprocessors                        |              | . temperature distribution                | GS         | chalcogenides                   |
|            | service oriented architecture          | DT           | . velocity distribution                   |            | . sulfides                      |
|            | transputers<br>VSAT (network)          |              | chemical composition cross sections       |            | disulfides                      |
|            | wide area networks                     |              | odistribution                             |            | carbon disulfide                |
|            | wide area rietworks                    |              | dynamic characteristics                   |            | sulfur compounds                |
| distribu   | tina                                   |              | field theory (physics)                    |            | . sulfides<br>disulfides        |
| UF         | dispatching                            |              | gradients                                 |            | carbon disulfide                |
| RT         | allocations                            |              | jet lift                                  |            | Carborr disdiffue               |
| 101        | assimilation                           |              | lift                                      | ditches    |                                 |
|            | commercial energy                      | ۰            | patterns                                  | RT         | canals                          |
|            | dispersing                             |              | profiles                                  | 111        | irrigation                      |
|            | disposal                               |              | rotor lift                                |            | landforms                       |
| ۰          | odistribution                          |              | statistical distributions                 |            | troughs                         |
|            | domestic energy                        |              | synthetic arrays                          |            | nougho                          |
| ۰          | o food                                 |              | zero lift                                 | ∞ ditchin  | q                               |
|            | industrial energy                      |              |   | SN         | (USE OF A MORE SPECIFIC TERM IS |
|            | inventory controls                     | distribu     | ition functions                           | OIV        | RECOMMENDEDCONSULT THE TERMS    |
|            | materials handling                     | DEF          | The density functions or number of        |            | LISTED BELOW)                   |
|            | positioning                            | particles    | s per unit volume of phase space. The     | RT         | ditching (landing)              |
|            | proportion                             | distribut    | ion functions are a function of the three |            | excavation                      |
|            | resource allocation                    | space o      | coordinates and the three velocity coor-  |            |                                 |
|            | transportation                         | dinates.     |   |            | (excavation)                    |
|            | transportation energy                  | GS           | functions (mathematics)                   | USE        | excavation                      |
|            |  |              | . distribution functions                  |            |                                 |
| ∞ distribu | ıtion                                  |              | probability distribution functions        |            | g (landing)                     |
| SN         | (USE OF A MORE SPECIFIC TERM IS        | RT           | Chapman-Enskog theory                     | GS         | crashes                         |
|            | RECOMMENDEDCONSULT THE TERMS           |              | discrete functions                        |            | . crash landing                 |
| RT         | LISTED BELOW)<br>allocations           |              | maximum entropy method                    |            | . ditching (landing)            |
| 101        | assimilation                           | ۰            | o nets                                    |            | landing                         |
|            | brightness distribution                |              | probability theory                        |            | ditching (landing)              |
|            | circulation distribution               |              | statistical distributions                 | RT         | aircraft accidents              |
|            | demography                             | ali atrila i | tion moments                              | 00         | oditching                       |
|            | dispersing                             | UF           | ition moments<br>statistical moments      |            | glide landings                  |
|            | disposal                               | GS           | moments                                   |            | water landing                   |
|            | distributing                           | GS           |   |            |                                 |
|            | distribution (property)                |              | . distribution moments                    | dithers    |                                 |
|            | geographic distribution                |              | mean orthogonality                        | GS         | shaking                         |
|            | kurtosis                               |              | standard deviation                        |            | . dithers                       |
|            | load distribution (forces)             | RT           |   |            | shivering                       |
|            | mass distribution                      | IXI          | average median (statistics)               |            | dithers                         |
|            | materials handling                     |              | method of moments                         | RT         | disorders                       |
|            | positioning                            |              | mode (statistics)                         |            | disorientation                  |
|            | pressure distribution                  |              | skewness                                  |            | emotional factors               |
|            | spectral energy distribution           |              | statistical distributions                 |            | human behavior                  |
|            | statistical distributions              |              | variance (statistics)                     | ~          | o inhibition                    |
|            | thrust distribution                    |              | variance (statistics)                     |            | irrationality                   |
|            | transportation                         | distribu     | itors                                     |            | vacillation                     |
|            |  | RT           | commutators                               | -1:41-:-1- |                                 |
| distribu   | tion (property)                        |              | dispensers                                | dithiols   | 4l-1-1-                         |
| UF         | pattern distribution                   |              | feeders                                   | USE        | thiols                          |
| GS         | distribution (property)                |              | ignition systems                          |            |                                 |
|            | angular distribution                   |              | internal combustion engines               | diuresis   |                                 |
|            | . Boltzmann distribution               |              | materials handling                        | RT         | body fluids<br>edema            |
|            | . brightness distribution              |              | rollers                                   |            | urination                       |
|            | . charge distribution                  |              | sprayers                                  |            | vasopressins                    |
|            | . current distribution                 |              |   |            | vasopressiris                   |
|            | . electron distribution                |              | of Columbia                               | diuretic   |                                 |
|            | electron density profiles              | GS           | nations                                   | GS         | diuretics                       |
|            | . energy distribution                  |              | . United States                           | GS         | . aminophylline                 |
|            | spectral energy distribution           | DT           | . District of Columbia                    | RT         | acetazolamide                   |
|            | . flow distribution                    | RT           | Potomac River Valley (MD-VA-WV)           | IXI        | ureas                           |
|            | . force distribution                   | disturba     | nce theory                                |            | uleas                           |
|            | . frequency distribution               | USE          | perturbation theory                       | diurnal i  | rhythma                         |
|            | kurtosis                               | OOL          | perturbation theory                       | USE        | circadian rhythms               |
|            | . hole distribution (electronics)      | ∞ disturb    | ances                                     | USL        | Circadian mythins               |
|            | . hole distribution (mechanics)        | SN           | (USE OF A MORE SPECIFIC TERM IS           | diurnal    | variations                      |
|            | . interference lift . ion distribution |              | RECOMMENDEDCONSULT THE TERMS              |            | variations                      |
|            | . load distribution (forces)           | RT           | LISTED BELOW)<br>bursts                   | GS         | periodic variations             |
|            | . mass distribution (forces)           | KI           | disorders                                 |            | . diurnal variations            |
|            | . mass distribution                    |              | electromagnetic interference              | RT         | cycles                          |
|            | . neutron distribution                 |              | ionospheric disturbances                  | KI         | darkness                        |
|            | . pressure distribution                |              | ionospheric disturbances                  |            | daytime                         |
|            | . radial distribution                  |              | magnetic disturbances                     |            | magnetic variations             |
|            | . radiation distribution               |              | perturbation                              |            | night                           |
|            | antenna radiation patterns             |              | radio auroras                             |            | nocturnal variations            |
|            | sidelobes                              |              | radio bursts                              |            | photoperiod                     |
|            |  |              |   |            |                                 |
|            | diffraction patterns                   |              | solar activity                            |            | tropopause                      |

wind variations RT barotrauma . DO-28 aircraft decompression sickness general aviation aircraft human tolerances divergence DO-28 aircraft The expansion or spreading out of a medical phenomena light aircraft vector field; also a precise measure thereof. A physiological effects . DO-28 aircraft static instability of a lifting surface or of a body underwater physiology monoplanes on a vehicle wherein the aerodynamic loads underwater tests . DO-28 aircraft tending to deform surface or body are greater passenger aircraft than the elastic restoring forces. ∞ division . DO-28 aircraft GS divergence (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS RT ∞ aircraft . magnetic charge density LISTED BELOW) catastrophe theory cell division DO-31 aircraft convergence dividing (mathematics) Dornier DO-31 aircraft deviation number theory GS Dornier aircraft differences ∞ separation DO-31 aircraft displacement subdivisions jet aircraft ∞ drift subsidiaries . turbofan aircraft Fourier analysis . . DO-31 aircraft functions (mathematics) DIVOT (voice translators) monoplanes geostrophic wind USE digital to voice translators DO-31 aircraft refraction transport aircraft series (mathematics) dizziness DO-31 aircraft series expansion (added August 2004) V/STOL aircraft variations An imprecise term which may refer to a . DO-31 aircraft vortices sense of spatial disorientation, motion of the RT ∞ aircraft environment, or lightheadedness. divergent nozzles GS signs and symptoms conical nozzles DO-328 aircraft . dizziness exhaust nozzles (added September 1994) RT acceleration stresses (physiology) nozzle geometry GS commercial aircraft disorientation nozzle walls DO-328 aircraft motion sickness Dornier aircraft . DO-328 aircraft rocket nozzles Djibouti thrust chambers iet aircraft (added February 1989) wind tunnel nozzles . turboprop aircraft nations . DO-328 aircraft Djibouti diverters passenger aircraft . DO-328 aircraft Africa diverters GS divertors (fusion reactors) DME-A satellite transport aircraft RT baffles DO-328 aircraft USE Explorer 31 satellite blast deflectors RT ∞ aircraft bypasses **DMSP** satellites deflectors Satellites of the defense meteorologidocking ∞ diffusers cal satellite program, a program sponsored by (added May 2005) dividers the United States Air Force System Command's GS maneuvers flame deflectors Space Division which provides timely global . docking separation imagery and specialized meteorological data for . . autonomous docking separators supporting a variety of Department of Defense . . offshore docking shielding operations. Used for Defense Meteorological . spacecraft docking valves Satellite Program. RT interception Defense Meteorological Satellite UF mooring divertors (fusion reactors) Program multiple docking adapters (added March 1995) artificial satellites diverters . meteorological satellites divertors (fusion reactors) . DMSP satellites document indexing limiters (fusion reactors) military spacecraft
. DMSP satellites (added April 2000) magnetic field configurations USE indexing (information science) plasma control RT air defense tokamak devices ∞ defense document markup languages defense program (added July 1995) dividers meteorology DEF Standardized nomenclatures that (EXCLUDES VOLTAGE AND FREQUENCY SN photomapping specify the organization of complex text (includ-DIVIDERS) GS separators photoreconnaissance ing technical and scientific notation, graphics, remote sensing dividers and images) and define the document type, data satellite-borne photography RT baffles elements within the document, and the relation- barriers ship between data elements for electronically DNA curtains prepared, stored, interchangd, and published USE deoxyribonucleic acid diverters documents. panels UF DSSSL DNS (numerical analysis) spacers HTML HYTIME (added October 1997) USE direct numerical simulation divides (landforms) markup languages landforms GS SGML DO-27 aircraft divides (landforms) SPDL Dornier DO-27 aircraft RT drainage patterns GS languages Dornier aircraft mountains document markup languages DO-27 aircraft watersheds documentation general aviation aircraft electronic publishing DO-27 aircraft dividing (mathematics) human-computer interface light aircraft number theory hypertext dividing (mathematics) DO-27 aircraft information transfer arithmetic monoplanes printing computation DO-27 aircraft standards passenger aircraft congruences

DO-27 aircraft

Dornier aircraft

Dornier DO-28 aircraft

RT ∞ aircraft

DO-28 aircraft

UF

GS

document storage

∞ files

data storage

documentation

reproduction (copying)

## 258

∞ division

diving (underwater)

quotients

submerged bodies

. diving (underwater)

radar equipment energy conversion ∞ storage industrial energy doghouses (electronics) documentation solar cooling RT enclosures (LIMITED TO WRITTEN MATERIAL THAT ACCOMPANIES, EXPLAINS, SPECIFIES OR DESCRIBES EQUIPMENT OR radar antennas solar houses transportation energy dogs SYSTEMS) water heating The assembling, coding, and dissemi-GS animals nating of recorded knowledge. . vertebrates domestic satellite communications systems . . mammals GŠ literature RT communication satellites . dogs direct broadcast satellites . documentation RT wolves acquisition microwave transmission RCA Satcom satellites bibliographies biography dollies satellite networks surface vehicles GS satellite transmission case histories dollies ∞ systems catalogs (publications) carriages conferences dominance data retrieval materials handling sleds GS dominance document markup languages trucks . eye dominance document storage undercarriages RT genetics documents histories dolomite (mineral) Dominica indexes (documentation) A common rock-forming rhombohedral GS landforms information material consisting of calcium, magnesium, and information dissemination carbonates. It is used for refractory products. . . West Indies information resources management GS carbon compounds . Dominica information retrieval . carbonates nations knowledge . dolomite (mineral) . Dominica libraries magnesium compounds news dolomite (mineral) **Dominican Republic** records minerals GS nations ∞ reference systems dolomite (mineral) **Dominican Republic** aggregates Caribbean region selective dissemination of information space glossaries limestone Caribbean Sea summaries sedimentary rocks Domino propellants technical writing GS propellants technology transfer dolphins . high energy propellants translating GS animals . Domino propellants . vertebrates plasticizers documents rocket oxidizers UF publications . . . marine mammals solid rocket propellants GS documents .... dolphins . abstracts Donatello Logistics Module (ISS) . bibliographies domain wall (added April 2005) . catalogs (publications) domains USE Multi-Purpose Logistics Modules . . astronomical catalogs ferroelasticity . congressional reports magnetic domains **Donnell equations** . dictionaries ∞ motion RT buckling . drawings ∞ equations . . engineering drawings domains stress analysis . blueprints GS domains . handbooks . magnetic domains donor materials .. user manuals (computer programs) dipole moments semiconductors (materials) domain wall donor materials . . installation manuals electrical properties antisite defects .. user manuals (computer programs) range (extremes) carrier density (solid state) . papers doping (materials) . periodicals ∞ domes electrons postlaunch reports (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS holes (electron deficiencies) . Presidential reports ∞ materials . proposals LISTED BELOW) modulation doping domes (geology) . records domes (structural forms) . . video disks doors . supplements UF exits (doors) . textbooks domes (geology) GS geology RT air locks texts domes (geology) apertures . theses curtains anticlines conferences egress ∞ domes copyrights geosynclines entrances documentation floors electronic publishing synclines gates (openings) format domes (structural forms) hatches hardware utilization lists ingress (spacecraft passageway) shells (structural forms) indexes (documentation) . domes (structural forms) openings information retrieval . radomes outlets libraries RT ∞ cupolas ∞ thresholds literature ∞ domes windows (apertures) reports hemispherical shells technology transfer housings pressure vessels An intermediate organic compound Dodge satellite produced by oxidation of tyrosine by tyramine; GS artificial satellites protuberances also, an intermediate product in the synthesis of . Dodge satellite domestic energy both epinephrine and melanin. Used for dihydoghouses (electronics) droxyphenylalanine. RT allocations DEF Small enclosures placed at the base of commercial energy dihydroxyphenylalanine distributing transmitting antenna towers to house antenna GS acids

economic factors

energy consumption

∞ energy

tuning equipment. GS housings

. doghouses (electronics)

. amino acids

organic compounds

. . dopa

| . amino acids   | RT air navigation  | radiation measurement                           |
|---|--|---|
| dopa  | all-weather air navigation   |   |
| RT ∞ chemical compounds   | dead reckoning   | dose  |
| dopamine  | radar navigation   | USE dosage                                      |
| melanin   | radio navigation   |   |
| oxidation<br>pigments   | satellite doppler positioning  | dosimeters                                      |
| pigmenta  | Doppler radar  | DEF Instruments for measuring the ultravio-     |
| dopamine  | DEF Radar which utilizes the Doppler effect  | let in solar and sky radiation. Devices worn by |
| (added June 1997)   | to determine the radial component of velocities  | persons working around radioactive material     |
| RT catecholamine  | of relative radar targets or to select targets   | which indicate the dose of radiation to which   |
| dopa  | having particular radial velocities.   | thay have been exposed. Used for dosimetry.     |
| drugs   | GS radar   | UF dosimetry GS measuring instruments           |
| epinephrine   | . Doppler radar  | . radiation measuring instruments               |
| neurophysiology<br>neurotransmitters  | multistatic radar  | radiation detectors                             |
| norepinephrine  | pulse Doppler radar<br>monopulse radar   | dosimeters                                      |
|   | Shuttle Imaging Radar  | threshold detectors (dosimeters)                |
| doped crystals  | RT airborne radar  | RT actinometers                                 |
| GS crystals   | coherent radar   | dosage  |
| doped crystals  | continuous wave radar  | exposure  |
| RT crystal growth   | monopulse radar  | flux (rate)<br>flux density                     |
| crystal optics<br>crystal structure   | moving target indicators   | Geiger counters                                 |
| doping (materials)  | polystation doppler tracking system  | ionization chambers                             |
| fullerides  | pulse radar<br>radar detection   | irradiation                                     |
| gadolinium-gallium garnet   | radar detection  | neutron counters                                |
| MODFETS   | radar oquipmont  | nuclear emulsions                               |
| modulation doping   | radar networks   | photographic measurement                        |
| neutron transmutation doping  | radar tracking   | proportional counters                           |
| To a constant of the constant | satellite doppler positioning  | radiant flux density                            |
| dopes RT additives  | surveillance radar   | radiation counters<br>radiation dosage          |
| fillers   | Book to Electron Work  | radiation effects                               |
| finishes  | Doppler-Fizeau effect  | radiation hazards                               |
| gels  | DEF The Doppler effect applied to a source of light. When the distance between the ob- | radiation measurement                           |
| primers (coatings)  | server and the source of light is diminishing, the                                     | radiobiology                                    |
| sealers   | lines of the spectrum are displaced towards the  |   |
|   | violet, and, when the distance is increasing, they                                     | dosimetry                                       |
| doping (additives)  | are displaced toward the red, the displacement   | USE dosimeters                                  |
| USE additives   | being proportional to the relative velocity of   |   |
| doping (materials)  | approach or recession.   | double base propellants                         |
| (added June 2003)   | GS Doppler effect  | DEF Solid rocket propellants using two un-      |
| DEF The incorporation of impurities into sili-  | . <b>Doppler-Fizeau effect</b><br>RT blue shift  | stable compounds, such as nitrocellulose and    |
| con or other semiconductor materials in order to  | ∞ effects  | nitroglycerin. The unstable compounds used in a |
| modify the conductivity or other electrical prop-   | Fizeau effect  | double based propellant do not require a sepa-  |
| erties of these materials   | frequency shift  | rate oxidizer. Used for cordite.  UF cordite    |
| GS doping (materials)   | radar navigation   | GS propellants                                  |
| . modulation doping . neutron transmutation doping  | red shift  | . double base propellants                       |
| RT additives  | stellar motions  | double base rocket propellants                  |
| crystal lattices  |  | RT cellulose nitrate                            |
| donor materials   | Dornier aircraft   | composite propellants                           |
| doped crystals  | GS <b>Dornier aircraft</b> . DO-27 aircraft  | endothermic fuels                               |
| ion implantation  | . DO-28 aircraft   | explosives                                      |
| semiconductor devices   | . DO-31 aircraft   | nitroglycerin                                   |
| semiconductors (materials)  | . DO-328 aircraft  | plastisols<br>pyrotechnics                      |
| Doppler effect  | RT ∞ aircraft  | pyrotectifics                                   |
| DEF The change in frequency with which  |  | davible base realist prepallents                |
| energy reaches a receiver when the receiver   | Dornier DO-27 aircraft   | double base rocket propellants GS gels          |
| and the energy source are in motion relative to   | USE DO-27 aircraft   | . double base rocket propellants                |
| each other. Used for DOVAP and stellar Doppler  | D ' DO 00 ' "  | propellants                                     |
| shift.  | Dornier DO-28 aircraft USE DO-28 aircraft  | . double base propellants                       |
| UF DOVAP  | USE DO-28 aircraft   | double base rocket propellants                  |
| stellar Doppler shift   | Dornier DO-31 aircraft   | . rocket propellants                            |
| GS <b>Doppler effect</b> . Doppler-Fizeau effect  | USE <b>DO-31 aircraft</b>  | solid rocket propellants                        |
| RT blue shift   |  | double base rocket propellants                  |
| ∞ effects   | Dornier paraglider rocket vehicle  | . solid propellants solid rocket propellants    |
| elastic waves   | GS rocket vehicles   | double base rocket propellants                  |
| electromagnetic radiation   | . single stage rocket vehicles   | RT cellulose nitrate                            |
| Fizeau effect   | Dornier paraglider rocket vehicle  | composite propellants                           |
| frequency shift   | . sounding rockets   | explosives                                      |
| optical heterodyning  | Dornier paraglider rocket vehicle RT liquid propellant rocket engines                  | nitroglycerin                                   |
| radial velocity<br>red shift  | N1 liquid propellant rocket engines  |   |
| satellite doppler positioning   | dorsal sections  | double cusps                                    |
| stellar motions   | RT anatomy   | UF osculations                                  |
| StonesStorio  | posterior sections   | GS geometry                                     |
| Doppler navigation  | •  | . cusps (mathematics)                           |
| DEF Dead reckoning performed automati-  | dosage   | double cusps                                    |
| cally by a device which gives a continuous  | UF dose  | RT ∞ cusps                                      |
| indication of position by integrating the speed   | GS dosage  |   |
| derived from measurement of the Doppler effect  | . radiation dosage   | double precision arithmetic                     |
| of echoes from directed beams of radiant energy transmitted from the craft.   | . sublethal dosage   | GS number theory                                |
| GS navigation   | RT biological effects dosimeters   | . arithmetic<br>double precision arithmetic     |
| . Doppler navigation  | drugs  | RT arithmetic and logic units                   |
| Pp Ilarigation  | ~. ~g~   | a   |

| ~         | o numbers                                   | GS      | storms                                     | RT         | Giacobini-Zinner comet                              |
|-----------|---|---------|--|------------|---|
| doublo    | sideband transmission                       |         | . storms (meteorology)                     |            |   |
| GS        | transmission                                |         | downbursts                                 | ∞ draft    |   |
| 03        | . electromagnetic wave transmission         |         | microbursts (meteorology)                  | SN         | (USE OF A MORE SPECIFIC TERM IS                     |
|           | . radio transmission                        | RT      | aviation meteorology                       |            | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)          |
|           |   |         | flight hazards                             | RT         | boundary layers                                     |
|           | double sideband transmission                |         | thunderstorms                              |            | downwash  |
|           | . signal transmission radio transmission    |         | vertical air currents                      |            | draft (gas flow)                                    |
|           |   |         | wind shear                                 |            | drafting (drawing)                                  |
| DT        | double sideband transmission                |         |  |            | upwash  |
| RT        | modulation                                  | down-c  | onverters                                  |            | wakes   |
|           | sidebands                                   | GS      | frequency converters                       |            | Walkes  |
|           | single sideband transmission                |         | down-converters                            | droft (a   | as flow)  |
|           | television transmission                     | RT o    | ∘ converters                               |            | <b>as flow)</b><br>∘ draft                          |
|           | wave propagation                            |         | frequency dividers                         | KI o       | ouan<br>flues                                       |
| double    | stars                                       |         |  |            | ventilation   |
|           | Stars which appear as single points of      | downlii | nking                                      |            | ventilation   |
|           | the eye but which can be resolved into      |         | The transmission of signals (data, in-     |            |   |
|           | nts by a telescope. A double star is not    |         | on, etc.) from satellites to ground termi- |            | (drawing)   |
|           | arily a binary, a two star system revolving | nals.   | , ,  |            | odraft .  |
|           | common center, but may be an optical        | RT      | carrier to noise ratios                    | ~          | odrawing  |
|           | two unconnected stars in the same line      |         | communication satellites                   |            | drawings  |
| of sight. |   |         | frequency reuse                            |            | graphic arts  |
| GS GS     | celestial bodies                            |         | ground stations                            |            |   |
| 03        | . stars                                     |         | microwave transmission                     |            | j machines  |
|           |   |         | satellite transmission                     | RT         | computer aided design                               |
|           | double stars                                |         | transmission efficiency                    | ~          | ∘ design  |
|           | binary stars                                |         | uplinking                                  | ~          | ∘ machinery   |
|           | cataclysmic variables                       |         | apilitang                                  |            |   |
|           | companion stars                             | downra  | ngo  | drag       |   |
|           | Nemesis (star)                              | downra  | The airspace extending downstream          |            | A retarding force acting upon the direc-            |
|           | eclipsing binary stars                      | DEF     |  |            | notion of the body. It is a component of            |
|           | dwarf novae                                 |         | ven rocket test range.                     |            | fluid forces acting on the body. Used for           |
|           | Lambda Tauri stars                          | RT      | ballistic ranges                           | drag eff   |   |
|           | Zeta Aurigae star                           |         | ballistic trajectories                     | UF         | drag effect   |
|           | Sigma Orionis                               |         | flight tests                               | GS         | dynamic characteristics                             |
|           | symbiotic stars                             |         | impact prediction                          | 00         | . drag  |
|           | x ray binaries                              |         | missile ranges                             |            | electrostatic drag                                  |
| RT        | astrometry                                  |         | recovery zones                             |            | friction drag                                       |
|           | stellar motions                             |         | test ranges                                |            | . •   |
|           |   |         | touchdown                                  |            | aerodynamic drag                                    |
|           | layer capacitors                            |         | trajectories                               |            | supersonic drag                                     |
|           | ed September 2003)                          |         |  |            | viscous drag  |
| USE       | electrochemical capacitors                  | Downra  | ange Antimissile Measurement               |            | induced drag  |
| doughn    | ut ahana whaala                             | Prograi | m  |            | minimum drag  |
|           | ut shape wheels<br>toroidal wheels          | ŪF      | DAMP program                               |            | pressure drag                                       |
| USE       | toroidai wheeis                             | GS      | programs                                   |            | supersonic drag                                     |
| Douglas   | s aircraft                                  |         | . Downrange Antimissile                    |            | wave drag   |
| GS        | McDonnell Douglas aircraft                  |         | Measurement Program                        |            | interference drag                                   |
| 00        | . Douglas aircraft                          | RT o    | ∞ measurement                              |            | satellite drag                                      |
|           | A-1 aircraft                                |         |  | RT         | aerodynamic configurations                          |
|           | A-3 aircraft                                | downra  | inge measurement                           |            | aerodynamics  |
|           | A-4 aircraft                                |         | ∞ measurement                              |            | boundary layers                                     |
|           | B-66 aircraft                               |         | test ranges                                | 00         | odrag coefficients                                  |
|           | C-9 aircraft                                |         | toot rangeo                                |            | drag measurement                                    |
|           | C-47 aircraft                               | downtii | me   |            | friction  |
|           |   | DEF     | A period during which equipment is not     |            | gravitation   |
|           | C-54 aircraft                               |         | 1 0 11                                     |            | ground effect (aerodynamics)                        |
|           | C-118 aircraft                              |         | ng correctly because of machine failure.   |            | lift  |
|           | C-124 aircraft                              | GS      | time                                       |            | skin friction                                       |
|           | C-133 aircraft                              | DT      | . downtime                                 |            | wakes   |
|           | D-558 aircraft                              | RT      | failure                                    |            |   |
|           | . DC 3 aircraft                             |         | inventory management                       | drag ba    | lance   |
|           | . DC 7 aircraft                             |         | logistics                                  | USE        | aerodynamic balance                                 |
|           | . DC 8 aircraft                             |         | maintenance                                | J <b>-</b> | lift drag ratio                                     |
|           | . DC 9 aircraft                             |         | malfunctions                               |            | <b>. .</b>  |
|           | DC 10 aircraft                              |         | MTBF<br>roliobility                        | drag ch    | utes  |
|           | PD-808 aircraft                             |         | reliability                                | UF         | drogue parachutes                                   |
|           | X-3 aircraft                                |         | spare parts                                | GS         | brakes (for arresting motion)                       |
| RT ∝      | ∘ aircraft                                  |         | system failures                            | GS         | . aerodynamic brakes                                |
| Douglas   | s D-558 aircraft                            |         | turnaround (STS)                           |            | drag chutes   |
|           |   |         |  |            | · ·   |
| USE       | D-558 aircraft                              | downw   | ash  |            | drag devices  |
| Doualas   | s DC-3 aircraft                             | RT      | backwash                                   |            | . aerodynamic brakes                                |
|           | DC 3 aircraft                               | o       | ∘ draft                                    |            | drag chutes   |
| OOL       | DO 3 direitait                              |         | ground effect (aerodynamics)               |            | parachutes  |
| Douglas   | s DC-7 aircraft                             |         | helicopter wakes                           |            | drag chutes   |
|           | DC 7 aircraft                               |         | lift augmentation                          | RT         | aircraft brakes                                     |
|           |   |         | peripheral jet flow                        |            | airdrops  |
|           | DC-8 aircraft                               |         | upwash                                     |            | ballutes  |
| USE       | DC 8 aircraft                               |         | wakes                                      |            | ribbon parachutes                                   |
| D- '      | DO 0 - in-m-ft                              |         |  |            | towed bodies  |
|           | DC-9 aircraft                               | DPCM    | (modulation)                               |            |   |
| USE       | DC 9 aircraft                               | USE     | differential pulse code modulation         | ∞ drag co  | pefficients   |
| Douals    | s PD-808 aircraft                           | UGL     | amoremula pulse code modulation            | SN         | (USE OF A MORE SPECIFIC TERM IS                     |
|           | PD-808 aircraft                             | D       | id metaeroide                              |            | RECOMMENDEDCONSULT THE TERMS                        |
| JUL       | . 5 300 anotait                             |         | id meteoroids                              | בר         | LISTED BELOW) The retice of drag to the products of |
| DOVAP     |   | GS      | celestial bodies                           | DEF        | The ratios of drag to the products of               |
| USE       | Doppler effect                              |         | . meteoroid showers                        |            | pressures and reference areas.                      |
|           |   |         | . Draconid meteoroids                      | RT         | aerodynamic coefficients                            |
| downbu    |   |         | . meteoroids                               |            | aerodynamic drag                                    |
| (adde     | ed March 1991)                              |         | Draconid meteoroids                        |            | drag  |

| hydrodynamic coefficients                         | DT                   | rectangular drainage                       |            | drift rate   |
|---|----------------------|--|------------|--|
| drag devices                                      | RT                   | arroyos                                    |            | flight paths   |
| UF dragulators                                    |                      | divides (landforms)<br>flood damage        |            | ionospheric drift<br>stability                               |
| GS drag devices                                   |                      | hydrology                                  |            | July 1   |
| . aerodynamic brakes                              |                      | irrigation                                 | drift (in  | strumentation)   |
| ballutes  |                      | Mississippi River (US)                     | UF         | instrument drift   |
| drag chutes                                       |                      | ∞ patterns                                 | RT         | accuracy   |
| split flaps                                       |                      | precipitation (meteorology)                | ~          | circuit reliability<br>drift                                 |
| wing flaps<br>leading edge flaps                  |                      | tributaries<br>water erosion               | ~          | drift rate   |
| leading edge slats                                |                      | water flow                                 |            | dynamic stability  |
| trailing edge flaps                               |                      | watersheds                                 |            | errors   |
| vortex flaps                                      |                      |  |            | instrument errors  |
| . spoilers  | drainin              |  |            | static stability   |
| RT abort apparatus                                | USE                  | drainage                                   |            | tolerances (mechanics)                                       |
| aircraft brakes<br>boundary layer control         |                      | a  | drift rat  | e  |
| brakes (for arresting motion)                     | SN                   | (USE OF A MORE SPECIFIC TERM IS            | DEF        | The amount of drift,in any of its severa                     |
| control surfaces                                  |                      | RECOMMENDEDCONSULT THE TERMS               |            | per unit time. Drift rate has many spe                       |
| flaps (control surfaces)                          | RT                   | LISTED BELOW)<br>bundle drawing            |            | anings in different fields. The type of drif                 |
| lift devices                                      | 131                  | cold drawing                               |            | ould always be specified.                                    |
| skin friction                                     |                      | drafting (drawing)                         | GS         | rates (per time) . drift rate                                |
| vortex alleviation                                |                      | drawings                                   | RT ∝       |  |
| drag effect                                       |                      | extruding                                  | 101 %      | drift (instrumentation)                                      |
| USE drag  |                      | layouts                                    |            | ionospheric drift  |
| 33 <u>2 4</u> g                                   |                      | metal drawing                              |            | mobility   |
| drag force anemometers                            |                      | pulling<br>records                         |            | orbit perturbation   |
| DEF Instruments for measuring both the            |                      | stretch forming                            |            | orbital mechanics  |
| static and dynamic velocity head and flow in high |                      | stretching                                 |            | rotating plasmas   |
| frequency, unsteady flow.                         |                      | tempering                                  |            | stability  |
| GS measuring instruments                          |                      |  |            | trajectory control   |
| . anemometers                                     | drawin               | gs   | drill bits | s  |
| drag force anemometers RT flow measurement        | UF                   | elevations (drawings)                      | GS         | cutters  |
| ∞ instruments                                     | GS                   | documents                                  |            | . drill bits   |
| velocity measurement                              |                      | . drawings                                 |            | tools  |
| ,,  |                      | engineering drawings                       |            | . drill bits   |
| drag measurement                                  | RT                   | blueprints charts                          | RT         | bits   |
| GS mechanical measurement                         |                      | ∞ cross sections                           |            | drilling   |
| drag measurement                                  | ·                    | diagrams                                   |            | drills   |
| RT aerodynamic drag                               |                      | dimensions                                 | drilling   |  |
| drag  |                      | drafting (drawing)                         | GS         | drilling   |
| electrostatic drag                                |                      | ∞ drawing `                                | 00         | laser drilling   |
| flow measurement<br>∞ measurement                 |                      | graphic arts                               | RT         | boreholes  |
| measuring instruments                             |                      | inks                                       |            | core sampling  |
| modeling modelments                               |                      | layouts                                    |            | cutting  |
| drag reduction                                    |                      | ∞ plans                                    |            | drill bits   |
| RT aerodynamic drag                               | •                    | ∞ projection                               |            | drills   |
| fluid flow  |                      | representations reproduction (copying)     |            | exploration  |
| friction  |                      | specifications                             |            | machining  |
| induced drag                                      |                      | ∞ tracing                                  |            | micromachining   |
| lift drag ratio                                   |                      | visual aids                                |            | natural gas exploration offshore energy sources              |
| ∞ reduction<br>riblets                            |                      |  |            | oil exploration  |
| winglets  | DRC (d               | apsule)                                    |            | oil fields   |
| Willigioto  | USE                  | Discoverer recovery capsules               |            | penetration  |
| dragulators                                       |                      |  |            | perforating  |
| USE brakes (for arresting motion)                 | dreams               |  |            | piercing   |
| drag devices                                      | RT                   | rapid eye movement state sleep             |            | tunneling (excavation)                                       |
|   |                      | sieep                                      |            | wells  |
| drainage<br>UF draining                           | dredae               | d materials                                | drills     |  |
| UF draining<br>runoffs                            |                      | Sand, mud, silt, gravel, etc., recovered   | GS         | cutters  |
| RT ∞ discharge                                    |                      | e bottoms of harbors, canals, etc., during |            | . drills   |
| evacuating (vacuum)                               |                      | g operations.                              |            | tools  |
| excavation  |                      | channel flow                               |            | . drills   |
| flood control                                     |                      | ∞ channels                                 | RT         | 3  |
| hydrology   | •                    | ∞ materials                                |            | compressed air   |
| hydrology models                                  |                      | sediments                                  |            | drill bits   |
| irrigation  | dredgii              | ng .                                       |            | drilling   |
| liquid wastes                                     |                      | Mechanical or hydraulic excavation of      |            | machine tools taps   |
| mines (excavations)                               |                      | ater material. Used in maintaining and     |            | taps   |
| permeability                                      |                      | of channels and ports as well as under-    | drinking   | a a  |
| ∞ pumping<br>seepage                              |                      | nining of sand, gravel, and minerals.      | GS         | ingestion (biology)  |
| sewers  |                      | artificial harbors                         |            | . drinking   |
| sumps   |                      | harbors                                    | RT         | beverages  |
| tunneling (excavation)                            |                      | mineral deposits                           |            | swallowing   |
| waste disposal                                    |                      | mining                                     |            |  |
| water flow  |                      | underwater resources                       | ∞ drives   | (LISE OF A MORE SPECIFIC TERM IS                             |
| water runoff                                      | ∞ drift              |  | SN         | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
| water tables                                      | ∞ <b>aritt</b><br>SN | (USE OF A MORE SPECIFIC TERM IS            |            | LISTED BELOW)  |
| 1.1   | SIN                  | RECOMMENDEDCONSULT THE TERMS               | RT         | mechanical drives  |
| drainage patterns                                 | D.T.                 | LISTED BELOW)                              |            | motivation   |
| UF dendritic drainage                             | RT                   | divergence                                 |            | propulsion   |
| interlacing drainage<br>radial drainage patterns  |                      | divergence<br>drift (instrumentation)      |            | sex<br>sleep   |
| radiai didiliago pattorilo                        |                      | a (modamondation)                          |            | 0.00p  |

|          | wind tunnel drives   | clouds (meteorology)                             |          | rawinsondes   |
|----------|--|--|----------|---|
|          |  | condensates                                      |          |   |
|          | parachutes   | condensing                                       | Drosop   |   |
| USE      | drag chutes  | fog  | GS       | animals   |
| drogues  |  | humidity   |          | . invertebrates   |
|          | towed bodies   | hydrogen clouds                                  |          | arthropods  |
| 002      | towou bouled   | nucleation particle diffusion                    |          | insects<br>Drosophila   |
| drone a  | aircraft   | particle direction                               | RT       | chironomus flies  |
| DEF      | Remotely controlled aircraft. Used for                       | ∞ precipitation                                  | 131      | Chironomas mes  |
| drone h  | elicopters.  | precipitation particle measurement               | drought  | t   |
| UF       | drone helicopters  | raindrops  | UF       | drought conditions  |
| GS       | drone vehicles   | size distribution                                | RT       | arid lands  |
|          | . drone aircraft   |  |          | conservation  |
|          | target drone aircraft Firebee 2 target drone aircraft        | drop tests                                       |          | desertification   |
|          | Jindivik target aircraft                                     | UF drop weight tests                             |          | floods  |
|          | pilotless aircraft   | RT Charpy impact test                            |          | hydrology<br>potable water  |
|          | . drone aircraft   | destructive tests<br>impact testing machines     |          | precipitation (meteorology)   |
|          | target drone aircraft  | impact tests                                     |          | water consumption   |
|          | Firebee 2 target drone aircraft                              | notch tests                                      |          | water management  |
|          | Jindivik target aircraft                                     | shock tests                                      |          | water pollution   |
| RT⋄      | ∞ aircraft   | ∞ tests  |          | water reclamation   |
|          | antisubmarine warfare aircraft                               |  |          |   |
|          | DAST program   | drop towers                                      |          | conditions  |
| ~        | light aircraft<br>∞ military aircraft                        | DEF Large devices for low gravity process-       | USE      | drought   |
| ~        | oblique wings  | ing of molten material which consist of either a | drowsin  | 229   |
|          | remotely piloted vehicles                                    | capsule which is dropped, or a drop tube where   |          | sleep   |
|          | research aircraft  | containerless low gravity studies are conducted  | 002      | 5.55p   |
|          | V/STOL aircraft  | or both. Used for drop tubes.  UF drop tubes     | drug the | erapy   |
|          |  | UF drop tubes<br>RT falling spheres              | UŠE      | chemotherapy  |
|          | pelicopters  | gravitational effects                            |          |   |
| USE      | drone aircraft   | low gravity manufacturing                        | drugs    |   |
|          | helicopters  | microgravity                                     | UF       | chemotherapeutic agents   |
| drono    | vehicles   | weightlessness                                   | GS       | drugs   |
| GS       | drone vehicles   |  |          | . adrenergics<br>. aminophylline  |
| 00       | . drone aircraft   | drop transfer                                    |          | . anesthetics   |
|          | target drone aircraft  | GS transferring                                  |          | chloroform  |
|          | Firebee 2 target drone aircraft                              | . drop transfer                                  |          | cyclopropane  |
|          | Jindivik target aircraft                                     | RT arc melting                                   |          | methyl chloride   |
| RT ∘     | ∞ military aircraft  | melting  |          | novocain  |
|          | pilotless aircraft   | plasma jets<br>refining                          |          | . antiadrenergics   |
|          | Sandpiper target missile                                     | Tellining  |          | . antibiotics   |
|          | ∞ vehicles   | drop tubes                                       |          | actinomycin   |
| 0        | winged vehicles  | USE drop towers                                  |          | penicillin  |
| Drones   | for Aerodynamic and Struct Test                              |  |          | pleurotin streptomycin  |
|          | DAST program   | drop weight tests                                |          | tetracyclines   |
|          | - P - 5  | USE drop tests                                   |          | . anticonvulsants   |
|          | d airfoils   |  |          | . antidiuretics   |
|          | A baseline airfoil with an abrupt                            | dropouts   |          | . antidotes   |
|          | in cross-section at about midspan from                       | DEF Discrete variations in signal levels dur-    |          | . antiemetics and antinauseants   |
|          | elage. The outboard portion of the wing                      | ing the reproduction of recorded data which      |          | . antihistaminics   |
|          | ross-section with a nearly flat bottom and                   | result in data reduction errors.                 |          | dimenhydrinate  |
|          | ed (downward) leading edge in relation hooard baseline wing. | RT circuit breakers electric contacts            |          | diphenyl hydantoin  |
| GS       | aerodynamic configurations                                   | electric switches                                |          | promethazine  |
|          | . drooped airfoils   | switches   |          | <ul><li>antihypertensive agents</li><li>antiinfectives and antibacterials</li></ul> |
|          | aircraft configurations                                      |  |          | . antiradiation drugs   |
|          | . drooped airfoils   | drops (liquids)                                  |          | cysteamine  |
|          | airfoils   | DEF Small bodies of liquid held together         |          | . central nervous system depressants  |
| БТ       | drooped airfoils   | primarily by surface tension. Used for liquid    |          | . cholinergics  |
| RT       | body-wing configurations                                     | drops.   |          | anticholinergics  |
|          | wing roots<br>wings  | UF <i>liquid drops</i><br>GS particles           |          | . cortisone   |
|          | wings  | . drops (liquids)                                |          | . cysteine  |
| drop     |  | raindrops  |          | . decongestants . digitalis   |
| SN       | (USE OF A MORE SPECIFIC TERM IS                              | RT air pollution                                 |          | . epinephrine   |
|          | RECOMMENDEDCONSULT THE TERMS                                 | Bond number                                      |          | . ergotamine  |
| RT       | LISTED BELOW)<br>drops (liquids)                             | condensation nuclei                              |          | . hemostatics   |
|          | gradients  | condensing                                       |          | . histamines  |
|          | 3  | ∞ drop   |          | . insulin   |
| drop ca  | alorimeters  | hydrometeors                                     |          | . methamphetamine   |
| GS       | measuring instruments  | sprayers   |          | . motion sickness drugs   |
|          | . calorimeters   | thermocapillary migration                        |          | . muscle relaxants  |
| DT       | drop calorimeters  | dropsondes                                       |          | . narcotics morphine  |
| RT       | bomb calorimeters flame calorimeters                         | DEF Radiosondes equipped with a para-            |          | . Nembutal (trademark)  |
|          | heat measurement   | chute, dropped from an aircraft to transmit mea- |          | . pentobarbital sodium  |
|          | high temperature tests                                       | surements of atmospheric conditions as it de-    |          | reserpine   |
|          | temperature measuring instruments                            | scends.  |          | . psychotropic drugs  |
|          |  | GS measuring instruments                         |          | marijuana   |
| drop si  |  | . meteorological instruments                     |          | . sedatives   |
|          | The diameter of a drop if it is approxi-                     | dropsondes                                       |          | . stimulants  |
|          | spherical; otherwise, the approximate                        | . sondes   |          | atropine  |
|          | and appropriate dimensions must be de-                       | dropsondes                                       |          | caffeine  |
| scribed. |  | RT meteorological balloons                       |          | central nervous system stimulants   |
| RT       | cloud physics  | radiosondes                                      |          | norepinephrine  |

|                 | . tranquilizers  |          | sea launching                                     | ۰             | ∘ spacecraft   |
|-----------------|--|----------|---|---------------|--|
|                 | . trimethadione  | dentara  | (a su in ma nt)                                   |               | spacecraft stability   |
|                 | . vasoconstrictor drugs hypertensin                          | USE      | (equipment) drying apparatus                      |               | spin stabilization   |
|                 | serotonin  | OOL      | arying apparatus                                  | dual th       | rust nozzles   |
|                 | . vasodilator agents   | drying   |   |               | rocket nozzles   |
| RT              | alkaloids  | UF       | desiccation                                       |               | . dual thrust nozzles  |
|                 | analgesia  | GS       | dewetting<br>drying                               | RT ∘          | ∞ nozzles  |
|                 | anesthesiology<br>bioflavonoids                              | 00       | . dehumidification                                |               | thrust   |
|                 | biotin   |          | . dehydration                                     | dual wi       | ng configurations  |
|                 | chemical defense   |          | . freeze drying                                   |               | A configuration of two wings of nearly   |
|                 | chemotherapy   | RT       | ∞ absorption                                      |               | ne planform and area, one behind the   |
|                 | cures  |          | baking concentrating                              | other.        | hinlanea   |
|                 | dopamine   |          | curing  | RT            | biplanes<br>joined wings   |
|                 | dosage ethers  |          | desaturation                                      |               | tandem wing aircraft   |
| 000             | medicine   |          | dewatering  |               | wings  |
|                 | pentobarbital  |          | diffusion   |               |  |
|                 | pharmacology   |          | enthalpy<br>evaporation                           |               | Principle  Principle that for any theorem in alec                                  |
|                 | phenobarbital  |          | firing (igniting)                                 |               | Principle that for any theorem in elec-<br>uit analysis there is a dual theorem in |
|                 | psychopharmacology quinoline                                 |          | roasting  |               | uantities are replaced with dual quanti-   |
|                 | salicylates  |          | ∞ separation                                      | ties. Ex      | amples are current and voltage or im-  |
|                 | sublethal dosage   |          | silica gel  |               | e and admittance.  |
|                 | thiophenes   |          | water loss  | RT •          | ∞ analyzing  |
|                 | vaccines   | drvina   | apparatus   |               | circuits equivalent circuits   |
|                 | vitamins   | UF       | dryers (equipment)                                |               | network analysis   |
| drumlins        | •  | GS       | separators  | ۰             | o paths  |
|                 | glacial drift  |          | drying apparatus                                  | •             | ∘ principles   |
|                 |  | RT       | desiccators absorbers (equipment)                 |               | signal flow graphs   |
| drums           |  | 17.1     | columns (process engineering)                     | duality       | theorem  |
| SN              | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |          | condensers (liquefiers)                           |               | Theorem which states that if either of   |
|                 | LISTED BELOW)  |          | dehydrated food                                   | two dua       | al linear programming problems has a   |
|                 | barrels  |          | evaporators                                       |               | , then so does the other.  |
|                 | cylinders<br>drums (containers)                              |          | furnaces  | GS            | theorems   |
|                 | magnetic drums   | DS1 (s   | pace mission)                                     | RT            | . duality theorem homology   |
|                 | magnetic storage   | (add     | led October 1998)                                 | 17.1          | isomorphism  |
|                 |  | USE      | Deep Space 1 Mission                              | 0             | ∘ mathematics  |
| •               | containers)  | DSIE (   | instrumentation facility)                         | 0             | ∘ relationships  |
| SN              | (EXCLUDE MAGNETIC COMPUTER MEMORIES)                         | USE      |   | dubniu        | m  |
| RT              | barrels (containers)   |          | Facility  |               | ed May 1998)   |
| 000             | buckets  | 5044 (   |   |               | chemical elements  |
| ~               | containers   | USE USE  | space network)  Deep Space Network                |               | . dubnium  |
|                 | cylinders  | USE      | Deep Space Network                                | RT            | rutherfordium  |
|                 | drums  | DSN h    | elicopter   |               | seaborgium   |
|                 | tanks (containers)   | USE      | QH-50 helicopter                                  | duct ge       | eometry  |
|                 | _  | DSSSL    |   |               | The shape and dimensions of ports or   |
| dry cells<br>GS | s<br>electric generators                                     | USE      | document markup languages                         |               | penings designed for passage of fluids   |
| 00              | . direct power generators                                    |          |   |               | liquids, or mixtures) in or external to  |
|                 | primary batteries  |          | nalysis)  | engines<br>GS | geometry   |
|                 | dry cells  | USE      | thermal analysis                                  | 00            | . duct geometry  |
|                 | magnesium cells  | DTL in   | tegrated circuits                                 | RT            | air flow   |
|                 | nickel zinc batteries electrochemical cells                  | UF       | Diode-Transistor-Logic integ circuits             |               | annular ducts  |
|                 | . electric batteries   | GS       | circuits  |               | circular tubes   |
|                 | primary batteries  |          | . integrated circuits                             |               | dump combustors<br>fluid flow  |
|                 | dry cells  | RT       | DTL integrated circuits                           |               | intake systems   |
|                 | magnesium cells  | KI       | electronic packaging<br>large scale integration   |               | openings   |
| RT              | nickel zinc batteries metal air batteries                    |          | microminiaturization                              |               | spatial marching   |
| 111             | nickel cadmium batteries                                     |          | molecular electronics                             | duotod        | hadiaa   |
|                 | storage batteries  |          | transistor circuits                               | ducted<br>RT  | annular ducts  |
|                 | thermal batteries  | DTMB     | 111 ground offeet machine                         | 17.1          | axisymmetric bodies  |
|                 |  |          | 1111 ground effect machine ground effect machines |               | bluff bodies   |
| dry frict       |  | 002      | ground enoor maanmoo                              |               | blunt bodies   |
| GS              | friction . dry friction                                      |          | 430 ground effect machine                         | ٥             | ∘ bodies   |
| RT              | abrasion   | USE      | ground effect machines                            |               | ducts<br>intake systems  |
|                 | kinetic friction   | Dual A   | ir Density Explorer                               |               | nacelles   |
|                 | sliding friction   | UF       |   |               | nose inlets  |
|                 | static friction  | GS       | artificial satellites                             |               | shrouds  |
| dry hea         | •  |          | . scientific satellites                           |               | slender bodies   |
|                 | heat   |          | Explorer satellites                               |               | two dimensional bodies   |
|                 | . dry heat   |          | Dual Air Density Explorer                         | ducted        | fan engines  |
| RT              | geothermal resources   | dual fre | equency radar                                     | DEF           | Aircraft engines incorporating a fan or  |
|                 | geothermal technology  |          | multispectral radar                               |               | er enclosed in a duct; especially jet en-  |
|                 | high temperature environments humidity                       | d::al :  | ada pranulajan                                    |               | which an enclosed fan or propeller is  |
|                 | ovens  |          | ode propulsion<br>hybrid propulsion               |               | ingest ambient air to augment the gases bustion in the jetstream.                  |
|                 |  | JUL      | , Jila propalaton                                 | GS            | engines  |
| drydock         |  |          | pin spacecraft                                    |               | . air breathing engines  |
| RT ∞            | ports  | RT       | OSO-7   |               | gas turbine engines  |

|           | ist angines                                      |          | ahaar proportion                         |          | iottiooning                             |
|-----------|--|----------|--|----------|---|
|           | jet engines                                      |          | shear properties                         |          | jettisoning                             |
|           | turbojet engines                                 |          | softness                                 |          | materials handling                      |
|           | ducted fan engines                               |          | stress relaxation                        |          | oil slicks                              |
|           | . internal combustion engines                    |          | stretching                               |          | releasing                               |
|           | gas turbine engines                              |          | temper (metallurgy)                      |          | spilling                                |
|           | jet engines                                      |          | tensile strength                         |          | spreading                               |
|           | turbojet engines                                 |          | toughness                                |          | unloading                               |
|           | ducted fan engines                               |          |  |          | unloading                               |
|           |  |          | Tresca flow                              |          |   |
|           | turbine engines                                  |          | weldability                              | Dunalie  | ella                                    |
|           | gas turbine engines                              |          |  | GS       | plants (botany)                         |
|           | jet engines                                      | ducts    |  |          | . algae                                 |
|           | turbojet engines                                 | DEF      | Specifically, tubes or passages that     |          | Dunaliella                              |
|           | ducted fan engines                               | confine  | and conduct fluids, as passages for the  |          |   |
| RT        | turbofan engines                                 | flow of  | air to compressors of gas turbine en-    | dunes    |   |
|           | · ·  | aines, c | or pipes leading air to superchargers.   |          |   |
| ducted    | fans   | GS       | ducts                                    | DEF      | Low mounds, ridges, banks, or hills of  |
| DEF       | Fans enclosed in ducts.                          | 00       | . acoustic ducts                         |          | windblown granular material, usually    |
| RT        | blowers  |          | . air ducts                              |          | apable of movement. Used for barchans,  |
| 111       | fan blades                                       |          |  | coastal  | dunes, and sand dunes.                  |
|           |  | DT       | . annular ducts                          | UF       | barchans                                |
| 0         | o fans   | RT       | baffles                                  |          | coastal dunes                           |
|           | lift fans  |          | cavities                                 |          | sand dunes                              |
|           | propeller fans                                   | c        | ∘ channels                               | GS       | landforms                               |
|           | ring wings                                       |          | ducted bodies                            | 00       | . dunes                                 |
|           | shrouded propellers                              |          | exhaust systems                          | RT       | beaches                                 |
|           | turbofans  |          | flues                                    | IXI      |   |
|           | ventilation fans                                 |          | intake systems                           |          | coasts                                  |
|           |  |          | nose inlets                              |          | deserts                                 |
| ducted    | flow   |          | openings                                 |          | lagoons                                 |
| GS        | fluid flow                                       |          |  |          | Sahara Desert (Africa)                  |
| 00        | . internal flow                                  |          | orifices                                 |          | sands                                   |
|           |  |          | outlets                                  |          | topography                              |
|           | . ducted flow                                    |          | pipes (tubes)                            |          | wind effects                            |
|           | Knudsen flow                                     |          | plenum chambers                          |          | Willia Gilodio                          |
| RT        | air flow   |          | ports (openings)                         | _        |   |
|           | cavity flow                                      |          | scoops                                   |          | s wind shear mechanism                  |
|           | channel flow                                     |          | throats                                  | USE      | wind shear                              |
|           | choked flow                                      |          | ∘ tubes                                  |          |   |
|           | corner flow                                      |          |  | dunite   |   |
|           | dump combustors                                  |          | ventilation                              | GS       | rocks                                   |
|           |  |          | vents                                    | 00       |   |
|           | flow geometry                                    |          | windows (apertures)                      |          | . igneous rocks                         |
|           | flow noise                                       |          |  | БТ       | dunite                                  |
|           | fuel flow  | Duffing  | differential equation                    | RT       | minerals                                |
|           | heat transmission                                | GS       | algebra                                  |          | olivine                                 |
|           | wall flow  |          | . nonlinear equations                    |          | peridotite                              |
|           |  |          | Duffing differential equation            |          | soils                                   |
| ducted    | propellers                                       |          | analysis (mathematics)                   |          |   |
| USE       | shrouded propellers                              |          | . real variables                         | duochr   | omators                                 |
|           | • •  |          | differential equations                   |          |   |
| ducted    | rocket engines                                   |          |  | RT       | electromagnetic radiation               |
| GS        | engines  |          | Duffing differential equation            | c        | ∞ generators                            |
|           | . rocket engines                                 |          | nonlinear equations                      |          | light sources                           |
|           | ducted rocket engines                            |          | Duffing differential equation            |          | measuring instruments                   |
| рт        |  | RT «     | ∞ equations                              |          | monochromators                          |
| RT        | booster rocket engines                           |          | probability theory                       |          | radiation sources                       |
| 0         | hybrid rocket engines                            |          |  |          | spectrophotometers                      |
|           | internal combustion engines                      | dullnes  | S  |          |   |
|           | liquid propellant rocket engines                 | USE      | luster                                   | duonla   | smatrons                                |
|           | restartable rocket engines                       |          |  |          |   |
|           | solid propellant rocket engines                  | dummi    | 25                                       | GS       | ion sources                             |
|           | sustainer rocket engines                         | RT       | decoys                                   |          | . plasmatrons                           |
|           | 3 · · ·  | IXI      | models                                   |          | duoplasmatrons                          |
| ductile-  | brittle transition                               |          |  |          | plasma generators                       |
| (add      | ed February 1994)                                |          | simulators                               |          | . plasmatrons                           |
| SN        | ((INCLUDES BOTH DUCTILE-TO-BRITTLE               |          |  |          | duoplasmatrons                          |
| OIN       | AND BRITTLE-TO-DUCTILE                           | dummy    |  | RT       | electric discharges                     |
|           | TRANSITIONS))                                    | USE      | impedance                                |          | ion propulsion                          |
| UF        | brittle-ductile transition                       |          | loading                                  |          | plasma propulsion                       |
| RT        | brittleness                                      |          | output                                   |          |   |
|           | ductility  |          |  |          | plasmas (physics)                       |
|           | fracture strength                                | dump o   | combustors                               |          | sputtering                              |
|           | plastic deformation                              | DEF      | Combustors having a means of reduc-      |          |   |
|           | transition                                       |          | velocity and forming recirculation zones | duplex   | operation                               |
|           | transition temperature                           |          | the sudden enlargement area between      | DEF      | The operation of associated transmit-   |
|           | •  |          | t duct and the combustion chamber.       |          | d receiving apparatus in which the pro- |
|           | yield strength                                   |          |  |          | of transmission and reception are con-  |
|           |  | GS       | combustion chambers                      | current. | •                                       |
| ductility |  |          | . dump combustors                        |          | ∞ metallurgy                            |
| GS        | mechanical properties                            | RT       | combustible flow                         | IX I     |   |
|           | . ductility                                      |          | combustion efficiency                    |          | phase shift circuits                    |
| RT        | brittleness                                      |          | duct geometry                            |          | switching circuits                      |
|           | compressive strength                             |          | ducted flow                              |          |   |
|           | creep properties                                 |          | engine parts                             | duplex   | ers                                     |
|           | ductile-brittle transition                       |          | flame holders                            | DEF      |   |
|           | elongation                                       |          | flow velocity                            |          | to be used for both transmitting and    |
|           | fatigue (materials)                              |          | inlet flow                               |          | g. Duplexers should not be confused     |
|           | flattening                                       |          | ramjet engines                           |          | plexers, devices permitting an antenna  |
|           |  |          | , ,                                      |          |   |
|           | fractography                                     |          | rocket engines                           |          | to be used simultaneously or separately |
|           | fracture strength                                |          |  |          | transmitters.                           |
|           | hardness   | dumpir   |  | RT       | circuits                                |
|           |  |          |  |          | circulators (phase shift circuits)      |
|           | impact strength                                  | RT       | disconnect devices                       |          | circulators (priase strict circults)    |
|           |  | RT       | disconnect devices<br>disposal           |          | magic tees                              |
|           | impact strength                                  | RT       |  |          | magic tees                              |
|           | impact strength<br>malleability<br>metal drawing | RT       | disposal ejection                        |          | magic tees<br>monopulse radar           |
|           | impact strength malleability                     | RT       | disposal                                 |          | magic tees                              |

transmitters wind effects white dwarf stars dusty plasmas dwell duplicating (added May 2001) delay USE reproduction (copying) RT ignition systems lonized gases containing small particles of solid matter, which are charged and timing devices durability interact through a Coulomb repulsion. They beaircraft survivability RT have much like a colloidal suspension, exhibitdyadics corrosion algebra cumulative damage ing for example crystalline, liquid, and gas GS . polynomials phases, and a melting/freezing phase transition. damage degradation GS particles dyadics . charged particles RT vectors (mathematics) deterioration . . energetic particles ∞ endurance ... plasmas (physics) dye lasers life (durability) stimulated emission devices .... dusty plasmas GS long term effects . lasers . corpuscular radiation mechanical properties . . organic lasers . . energetic particles ∞ physical properties ... plasmas (physics) . . dye lasers quality . . . dusty plasmas dyes reliability RT infrared lasers ∞ resistance laser outputs planetary rings ruggedness plasma clouds liquid lasers stability optical communication plasma composition vulnerability rhodamine plasma-particle interactions wear space plasmas tuning two-wavelength lasers strongly coupled plasmas duration USE time dwarf galaxies dyes GS dyes Galaxies with low luminosity. durene celestial bodies . methylene blue GS organic compounds . galaxies rhodamine . cyclic compounds . thiazine (trademark) dwarf galaxies . . cyclic hydrocarbons acriflavine RT local group (astronomy) durene aniline . hydrocarbons anthraquinones dwarf novae . . cyclic hydrocarbons DEF Short period binary systems in which a azines . . . durene red quasi-main sequence star fills its Roche lobe azo compounds chromophores and transfers matter, via an accretion disk, onto dust a white dwarf. dye lasers DEF An imprecise term referring to particu-GS celestial bodies ∞ markers lates capable of temporary suspension in air or methylene . stars other gases - also particles smaller than an . . double stars phenanthrene arbitrary selected size. . stilbene ... binary stars GS particles . . . eclipsing binary stars dust . . . . dwarf novae dynamic characteristics . . cosmic dust dynamic properties . . main sequence stars . . . interplanetary dust dynamic characteristics . . . dwarf stars . . . . meteoroid dust clouds . drag . . dwarf novae . . . . zodiacal dust . . electrostatic drag . . variable stars . . lunar dust . . friction drag . . . novae . terrestrial dust belt . . . aerodynamic drag . . dwarf novae RT aerosols . supersonic drag Hercules nova air pollution . . . viscous drag stellar mass accretion Aitken nuclei . . induced drag stellar mass ejection cleaning . . minimum drag superhumps (astronomy) ∞ clouds . . pressure drag white dwarf stars combustion products . . . supersonic drag contaminants ... wave drag dwarf planets dirt . . . interference drag (added September 2006) dispersion Celestial bodies that are in orbit . satellite drag dispersions around the Sun, have sufficient mass for their . dynamic pressure dusty plasmas self-gravity to overcome rigid body forces so that . dynamic stability fumes ... combustion stability they assume a hydrostatic equilibrium (nearly particulates round) shape, have not cleared the neighbor-. . . flame stability pollen . . control stability hood around their orbits, and are not satellites of powder (particles) a planet. . . frequency stability R Coronae Borealis stars GS celestial bodies .. motion stability . . . aerodynamic stability . dwarf planets smoke . . Ceres asteroid . . . aircraft stability space debris . . Pluto (planet) . . . . hovering stability asteroids . . . attitude stability dust collectors . . . directional stability Kuiper belt GS accumulators . . . . gyroscopic stability . dust collectors dwarf stars . . . . lateral stability separators GS celestial bodies longitudinal stability dust collectors flow stability air filters . . main sequence stars boundary layer stability electrostatic precipitators ... dwarf stars . . . . flame stability exhaust systems .... dwarf novae . . . . magnetohydrodynamic stability precipitators . . . . flare stars . . . . . Weibel instability ... red dwarf stars . . . . Goertler instability brown dwarf stars . . . . Taylor instability dust storms cataclysmic variables GS storms . . . low speed stability . storms (meteorology) F stars . . . rotary stability . dust storms G stars . gyroscopic stability atmospheric electricity K stars . . . spacecraft stability atmospheric physics . gravitational instability late stars . flow characteristics Mars (planet) Nemesis (star) . . flow distribution Mars environment subdwarf stars

subgiant stars

. . flow stability

Mars surface

. . . boundary layer stability critical loading usually expressed in decibels. . flame stability ∞ dynamics range (extremes) . . . magnetohydrodynamic stability edge loading . dynamic range Weibel instability gas-solid interactions RT amplification . . . Goertler instability NASTRAN amplifiers Taylor instability random loads dynamic characteristics . . flow velocity static loads equipment specifications . . . solar wind velocity structural design criteria frequency ranges . lift transverse loads frequency response . . interference lift microchannel plates wind pressure . . jet lift modulation . . rotor lift dynamic models ratios . . zero lift Models of aircraft or other objects havsignal detection ing their linear dimensions and weight and mo-. transient response signal to noise ratios accuracy ments of inertia reproduced in scale in proporaerodynamic balance tion to the original. dynamic response aerodynamic characteristics GS models GS responses amplification . dynamic models . dynamic response automatic control automatic control valves aircraft models . transient response biological models (mathematics) aeroservoelasticity bandwidth bond graphs amplification ∞ characteristics dvnamics damping large eddy simulation ∞ control ∞ dynamics mathematical models damping fiber orientation distribution (property) ocean models frequency domain analysis frequency response impedance dynamic range Petri nets powered models ∞ dynamics ∞ equilibrium similarity theorem modal response spacecraft models errors parameter identification frequency response static models ramp functions hysteresis systems simulation reaction time impedance wind tunnel models response bias linearity rotor dynamics ocean dynamics dynamic modulus of elasticity sensitivity precision GS mechanical properties step functions ∞ properties . elastic properties stroking tests range (extremes) . . modulus of elasticity system identification reaction time . . . dynamic modulus of elasticity time constant reliability RT ∞ dynamics time domain analysis remote control ultrasonic tests transfer functions resolution resonant frequencies dynamic pressure dynamic stability rotor dynamics The pressure of a fluid resulting from The characteristics of a body, such as sensitivity its motion, equal to one half the fluid density an aircraft or rocket, that causes it, when distimes the fluid velocity squared. In incompressstability turbed from an original state of steady flight or ible flow, dynamic pressure is the difference time constant motion, to damp the oscillations set up by restorbetween total pressure and static pressure. transfer functions ing moments and gradually return to its original dynamic characteristics state; specifically, the aerodynamic characterisdynamic pressure dynamic control pressure GS automatic control dynamic characteristics dynamic pressure . dynamic control . dynamic stability blast loads adaptive control aeroservoelasticity . . combustion stability contact loads . . . flame stability ∞ control . . control stability impact loads control theory . frequency stability
. motion stability kinetic theory ∞ dvnamics overpressure feedback control . . . aerodynamic stability Riemann waves inverse kinematics . . . aircraft stability . . . hovering stability
. . . attitude stability
. . . directional stability model reference adaptive control dynamic programming robot control optimization robot dynamics mathematical programming . gyroscopic stability ... dynamic programming dynamic loads lateral stability research DEF Loads imposed by dynamic action, as . longitudinal stability dynamic programming flow stability
. boundary layer stability distinguished from a static load. Specifically, RT ∞ applications of mathematics with respect to aircraft, rockets, or spacecraft, a Bellman theory load due to an acceleration of craft, as imposed flame stability constraints by gusts, by maneuvering, by landing, by firing . . . . magnetohydrodynamic stability critical path method rockets, etc. . . . . . Weibel instability decision theory GS loads (forces) Goertler instability dynamics dynamic loads . . . . Taylor instability formalism . . aerodynamic loads . . . low speed stability linear programming ... blast loads . . . rotary stability mathematical models ... gust loads . gyroscopic stability nonlinear systems . . cyclic loads . . . spacecraft stability operations research . . rolling contact loads gravitational instability ∞ programming steepest descent method . . thrust loads stability . . transient loads . dynamic stability . . . gust loads . . combustion stability dynamic properties . impact loads . . . flame stability USE dynamic characteristics ... landing loads . . control stability . . frequency stability . . . shock loads dynamic range . . . . blast loads . . motion stability (added August 1991) . . variable amplitude loading aerodynamic stability (LIMITED TO SIGNAL . . vibratory loads DETECTION/MODULATION)
DEF The range of a signal detector or transmitter between the smallest and largest detectable signal levels which can be detected without . . . aircraft stability . . wing loading axial compression loads . hovering stability

inducing changes in its gain characteristics;

axial loads

compression loads

. . . attitude stability . . . directional stability

. . . . . gyroscopic stability

## dynamic structural analysis

. . . . lateral stability dynamic pressure RT nitroglycerin . . . . longitudinal stability dynamic programming dynamo theory . . . flow stability dynamic response RT Earth core boundary layer stability dynamic stability geomagnetism . . . . flame stability dynamic structural analysis solar convection (astronomy) ... magnetohydrodynamic stability dynamic tests stellar convection . . . . . Weibel instability elastodynamics telluric currents Goertler instability electrodynamics ∞ theories . . . . Taylor instability equations of motion . . . low speed stability field theory (physics) dynamometers . . . rotary stability fluid dynamics Instruments for measuring power or . . . . gyroscopic stability fluid mechanics force; specifically, instruments for measuring the power, torque, or thrust of aircraft engines or rockets. Used for electrodynamometers.

UF electrodynamometers

GS electric space-times. . . . spacecraft stability gas dynamics . gravitational instability geodynamics coning motion counterbalances group dynamics Hamiltonian functions electric generators damping dimensional stability hemodynamics . rotating generators hydrodynamics . . dynamometers drift (instrumentation) kinematics measuring instruments kinetics . dynamometers horizontal orientation magnetohydrodynamics ergometers ∞ mechanics (physics)
 molecular dynamics missing mass (astrophysics) resonant vibration mechanical measurement ∞ test equipment rotor dynamics momentum thrust measurement spacecraft motion momentum transfer torquemeters nutation stable oscillations static stability ocean dynamics dynamos surface stability plasma dynamics USE rotating generators systems stability quantum chromodynamics Dyna-Soar space glider transient response rarefied gas dynamics USE X-20 aircraft vertical orientation resonant frequencies resonant vibration dynodes dynamic structural analysis robot dynamics electrodes GS structural dynamics rotor dynamics . dvnodes GS structural analysis spin dynamics camera tubes dynamic structural analysis stabilizers (fluid dynamics) photomultiplier tubes . flutter analysis statics secondary emission RT aeroservoelasticity terradynamics ∞ dynamics thermodynamics Dyson theory Euler-Bernoulli beams variational principles Heisenberg theory flat plates velocity quantum mechanics Mindlin plates vibration ∞ theories shock spectra dyspnea **Dynamics Explorer 1 satellite** Difficult or labored breathing. dynamic tests DEF DEF A twin satellite of Dynamics Explorer 2 RT aerodynamic stability rates (per time) satellite designed to study the magnetosphere, ∞ dynamics . respiratory rate ionosphere, and atmosphere coupling. flight tests dyspnea GS artificial satellites low speed stability signs and symptoms . scientific satellites motion stability . dyspnea . . Explorer satellites spin dynamics . . . Dynamics Explorer satellites dysprosium spin tests .... Dynamics Explorer 1 satellite GS chemical elements static tests . rare earth elements ∞ tests Dynamics Explorer 2 satellite . . dysprosium vibration tests DEF A twin satellite of Dynamics Explorer 1 . . . dysprosium isotopes satellite designed to study the magnetosphere, metals dynamical systems ionosphere, and atmosphere coupling. . rare earth elements attractors (mathematics) GS artificial satellites . . dysprosium control theory . scientific satellites . . . dysprosium isotopes mathematical models . . Explorer satellites nonlinear systems dysprosium 161 ... Dynamics Explorer satellites systems simulation USE dysprosium isotopes .... Dynamics Explorer 2 satellite dysprosium compounds dynamics

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

DEF Study of the motion of a system of material particles under the influence of forces, especially those which originate outside the system under consideration.

RT aerodynamics aerostatics Dynamics Explorer satellites
DEF Two satellites that have been designed rare earth compounds dysprosium compounds to occupy different orbits and supply compara-tive data for studying the boundary region be-RT ∞ chemical compounds ∞ metal compounds tween earth and space. Of the 24 goals of the program, one half require both satellite's data, one fourth one satellite's data and one fourth the dysprosium isotopes UF dysprosium 161 GS chemical elements other satellite's data. The satellites were aerostatics aerothermodynamics . nuclides launched together in August of 1981. . . isotopes GS artificial satellites astrodynamics . dysprosium isotopes . scientific satellites biodynamics . rare earth elements . . Explorer satellites chiral dynamics . . dysprosium ... Dynamics Explorer satellites computational fluid dynamics . . dysprosium isotopes . . . . Dynamics Explorer 1 satellite continuum mechanics metals . . . . Dynamics Explorer 2 satellite dynamic characteristics . rare earth elements dynamic control . . dysprosium dynamic loads dynamite ... dysprosium isotopes dynamic models explosives dynamic modulus of elasticity dynamite

| E glass   | command and control            | semicircular canals                                 |
|---|--------------------------------|---|
| DEF A low alkali lime borosilicate glass            | early warning systems          |   |
| made into glass fiber filaments used in compos-     | ∞ military aircraft            | Early Apollo Surface Experiments Package            |
| ite materials.                                      | ,                              |   |
| GS glass  | E-4A aircraft                  | USE <b>EASEP</b>                                    |
|   |                                |   |
| . E glass   | UF AABNCP                      | Early Bird satellites                               |
| S glass   | Advanced Airborne Command Post | GS artificial satellites                            |
| RT composite materials                              | Boeing 747B aircraft           | . active satellites                                 |
| glass fiber reinforced plastics                     | GS AWACS aircraft              | SYNCOM satellites                                   |
| glass fibers  | . E-4A aircraft                |   |
| silicon dioxide                                     | Boeing aircraft                | Early Bird satellites                               |
|   | . E-4A aircraft                | . communication satellites                          |
| E layers  | RT ∞ aircraft                  | SYNCOM satellites                                   |
|   |                                | Early Bird satellites                               |
| USE <b>E region</b>                                 | command and control            | . synchronous satellites                            |
|   | early warning systems          | SYNCOM satellites                                   |
| E region  | ∞ military aircraft            | Early Bird satellites                               |
| SN (ALTITUDE RANGE BETWEEN                          |                                | RT ATS  |
| ÀPPROXIMATELY 90 AND 150 KM)                        | EAI 680 computer               |   |
| DEF A portion of the ionosphere extending           | GS data processing equipment   | Comsat program                                      |
| from about 90 to 150 km. In daylight, the elec-     | . computers                    |   |
| tron density has one maximum at about 105 km.       | analog computers               | early stars   |
| and is dependent upon solar activity and the        |                                | GS celestial bodies                                 |
| solar zenith angle. At night the E region nearly    | EAI 680 computer               | . stars   |
| disappears except at high latitudes where par-      | digital computers              |   |
| ticle precipitation can produce ionization at alti- | EAI 680 computer               | early stars   |
| tutes greater than those expercienced under         |                                | hot stars   |
|   | EAI 8400 computer              | A stars   |
| sunlight conditions.                                | GS data processing equipment   | B stars   |
| UF <i>E layer</i> s                                 | . computers                    | shell stars   |
| night E layer                                       |                                | Sigma Orionis                                       |
| GS Earth atmosphere                                 | digital computers              | blue stars  |
| . upper atmosphere                                  | EAI 8400 computer              |   |
| Earth ionosphere                                    |                                | O stars   |
|   | EAI 8900 computer              | white dwarf stars                                   |
| E_region  | GS data processing equipment   | Wolf-Rayet stars                                    |
| E-1 layer   | . computers                    | RT late stars                                       |
| E-2 layer   | digital computers              | main sequence stars                                 |
| sporadic E layer                                    |                                | star formation                                      |
| regions   | EAI 8900 computer              |   |
| . E region  |                                |   |
| E-1 layer   | EAM (physical chemistry)       | early warning systems                               |
| *   | (added February 1998)          | GS warning systems                                  |
| E-2 layer   | USE embedded atom method       | . early warning systems                             |
| sporadic E layer                                    |                                | . Ballistic Missile Early Warning                   |
| RT lower ionosphere                                 | EAD (not make)                 | System  |
| upper ionosphere                                    | EAP (polymers)                 | RT air defense                                      |
|   | (added June 2000)              |   |
| E-1 layer   | USE electroactive polymers     | AWACS aircraft                                      |
| GS Earth atmosphere                                 |                                | Cobra Dane (radar)                                  |
| . upper atmosphere                                  | ear                            | detection   |
|   | GS anatomy                     | E-2 aircraft  |
| . Earth ionosphere                                  | *                              | E-3A aircraft                                       |
| E_region  | . sense organs                 | E-4A aircraft                                       |
| E-1 layer   | . ear                          | missile detection                                   |
| regions   | eardrums                       |   |
| . E region  | eustachian tubes               | over-the-horizon radar                              |
| E-1 layer   | labyrinth                      | radar targets                                       |
| RT sporadic E layer                                 | cochlea                        | radar tracking                                      |
| 1(1 Sporadic L layer                                | Corti organ                    | Synchronous Earth Observatory                       |
| =   | o o                            | satellite   |
| E-2 aircraft  | otolith organs                 | ∞ systems   |
| UF Hawkeye aircraft                                 | semicircular canals            |   |
| W2F aircraft  | vestibules                     | warning   |
| GS AWACS aircraft                                   | middle ear                     |   |
| . E-2 aircraft                                      | RT artificial ears             | earphones   |
| Grumman aircraft                                    | auditory perception            | DEF Electroacoustic transducers operating           |
|   | endolymph                      | from an electrical system to an acoustical sy       |
| . E-2 aircraft                                      | hearing                        | tem and intended to be closely coupled acou         |
| jet aircraft  |                                |   |
| . turboprop aircraft                                | labyrinthectomy                | tically to the ear. Used for headsets.  UF headsets |
| E-2 aircraft  | mastoids                       |   |
| RT ∞ aircraft                                       | otolaryngology                 | GS audio equipment                                  |
| command and control                                 | otology                        | . earphones   |
| early warning systems                               |                                | RT acoustics  |
| ∞ military aircraft                                 | ear pressure test              | auditory perception                                 |
| passenger aircraft                                  | GS physiological tests         | interphones   |
| turboprop engines                                   | . ear pressure test            | sound transmission                                  |
| turboprop engines                                   | RT middle ear pressure         | telephones  |
|   | •                              | telepriories  |
| E-2 layer   | pressure                       |   |
| GS Earth atmosphere                                 | vertigo                        | Earth & Ocean Physics Applications                  |
| . upper atmosphere                                  | vestibular tests               | Program   |
| . Earth ionosphere                                  |                                | UF EOPAP  |
| E region  | ear protectors                 | GS programs   |
| E-2 layer   | GS protectors                  | . NASA programs                                     |
|   |                                |   |
| regions   | ear protectors                 | NASA space programs                                 |
| . E_region  | RT noise injuries              | Earth & Ocean Physics                               |
| E-2 layer   | noise reduction                | Applications Program                                |
| RT sporadic E layer                                 |                                | . projects  |
| •   | eardrums                       | Earth & Ocean Physics                               |
| E-3A aircraft                                       | GS anatomy                     | Applications Program                                |
| GS AWACS aircraft                                   | *                              | . space programs                                    |
|   | . sense organs                 |   |
| E-3A aircraft                                       | ear                            | NASA space programs                                 |
| Boeing aircraft                                     | eardrums                       | Earth & Ocean Physics                               |
| . E-3A aircraft                                     | RT eustachian tubes            | Applications Program                                |
| RT ∞ aircraft                                       | middle ear pressure            | RT oceanography                                     |
|   |                                |   |

∞ research projects . . . . . F 2 region DEF The part of the Earths surface that is . . exosphere perennially frozen - the zone of the Earth where Earth (planet) . . thermosphere ice and frozen ground are formed. That planet of the solar system which . . turbopause air land interactions is fifth in size of the 9 major planets, and third acoustic sounding air water interactions (between Venus and Mars) in order of distance aerospace environments ∞ cryospheres from the sun (about 93 million miles). Major data ice environments for the Earth: equatorial radius: 6,378 kilometers air pollution meteorology (3,963. 5 miles); polar radius: 6,357 kilometers air quality permafrost (3,941 miles); equatorial circumference: 40,075 airglow polar caps kilometers (24,902 miles). atmospheres snow cover UF world atmospheric circulation GS celestial bodies atmospheric composition Earth currents . planets atmospheric electricity USE telluric currents atmospheric entry Atmospheric General Circulation . . terrestrial planets Earth Energy Budget Experiment USE LZEEBE satellite . . Earth (planet) asteroid collisions Experiment Earth sciences auroras Eastern Hemisphere bioastronautics Earth environment geodesy CERES (experiment) Earth magnetosphere environments GS geoelectricity . Earth environment geography air pollution environments geopotential height geology arid lands geomagnetism desertification global air pollution geophysics greenhouse effect magnetosheath ∞ globes meteor trails MISR (radiometry) planetary craters Earth figure polar caps OPEN Project USE geodesy terrestrial radiation planetary atmospheres Western hemisphere Earth gravitation plasmasphere radiation belts GS gravitation satellite atmospheres Earth gravitation DEF The fraction of the solar incident radiascale height RT geomagnetism tion that is reflected off the Earth and back into superrotation geopotential space. teleconnections (meteorology) geopotential height GS albedo gravitational fields . Earth albedo gravity anomalies absorptance Earth axis cosmic ray albedo DEF Any one of a set of mutually perpen-Earth hydrosphere Earth radiation budget dicular reference axes established with the up-DEF That part of the Earth that consists of Earth radiation budget experiment right axis (the Z axis) pointing to the center of the the oceans, seas, lakes, and rivers. Used for Ebert spectrometers Earth, used in describing the position or perforhydrosphere (Earth). lunar albedo mance of an aircraft or other body in flight. The hydrosphere (Earth) reflectance Earth axes may remain fixed or may move with biosphere terrestrial radiation the aircraft or other object. hydrological cycle GS axes (reference lines) hydrology Earth analogs axes of rotation lakes (added June 2004) . Earth axis limnology DEF Structures, processes, or phenomena that occur on Earth, or have occurred in the Earths geologic past, extrapolated to other plan-Chandler wobble oceans coordinates seas Earth orientation ets geodesy Earth ionosphere analogies
. Earth analogs
astronomical models GS polar wandering (geology) . (ALTITUDES ABOVE APPROXIMATELY 50 SN Earth atmosphere Earth core . upper atmosphere comparison GS cores . Earth ionosphere Earth planetary structure . planetary cores . . . E region . . . . E-1 layer planetary atmospheres . Earth core planetary geology lithosphere simulation . Earth core . . . . E-2 layer . . . sporadic E layer terrain analysis core-mantle boundary dynamo theory . . . lower ionosphere . D region Earth atmosphere geophysical fluids . . . upper ionosphere GS Earth atmosphere structural properties (geology) . . . . F region chemosphere . free atmosphere Earth crust ..... F 2 region
RT atmospheric ionization . heterosphere crustal dynamics . homosphere GS crusts . lower atmosphere . planetary crusts chemosphere CRRES (satellite) . . troposphere . Earth crust . tropopause lithosphere Earth magnetosphere . middle atmosphere . Earth crust Earth-ionosphere waveguide . . mesosphere electrojets coesite ... mesopause continental drift exosphere . . stratosphere field aligned currents core sampling . . . ozonosphere cratons heterosphere ... stratopause crustal fractures homosphere . midlatitude atmosphere Intasat satellite Earth mantle . primitive Earth atmosphere earthquake damage ion concentration . upper atmosphere folds (geology) ion density (concentration) . . Earth ionosphere lunar crust ∞ ionospheres ionospheric propagation ... E region massifs . . . . E-1 layer plates (tectonics) ionospheric storms . . . E-2 layer San Andreas Fault ∞ layers . . sporadic E layer magnetosphere-ionosphere coupling sea floor spreading ... lower ionosphere mesosphere stishovite

structural properties (geology)

Earth cryosphere

(added June 1996)

midlatitude atmosphere

Polar/GGS spacecraft

satellite atmospheres

regions

.... D region

. . . . F region

. . . . . F 1 region

... upper ionosphere

Earth limb planetary limb GS Earth limb RT astronomy libration ∞ limbs Earth magnetosphere GS environments Earth magnetosphere . . geomagnetic tail .. geomagnetic tail .. magnetopause .. magnetosheath AMPTE (satellites) barium ion clouds Chapman-Ferraro problem Cluster Mission constatics corotation CRRES (satellite) Earth atmosphere Earth ionosphere exosphere field aligned currents geomagnetic hollow geomagnetism GEOS satellites (ESA) heterosphere IMAGE satellite International Magnetospheric Explorer International Magnetospheric Study KP index magnetic fields magnetosphere-ionosphere coupling ∞ magnetospheres neutral sheets **OPEN Project** planetary magnetospheres plasma clouds plasmapause plasmasphere polar cusps Polar/GGS spacecraft radiation belts radiation trapping satellite atmospheres screen effect solar planetary interactions solar terrestrial interactions solar wind velocity space plasmas space weather thermosphere Wind/GGS spacecraft Earth magnetotail USE geomagnetic tail Earth mantle DEF The zone of the Earth below the crust and above the core (to a depth of 3480 km), which is divided into the upper mantle and the which is divided into the upper mantle and the lower mantle, with a transition zone between. Used for mantle (Earth structure).

UF mantle (Earth structure)

GS lithosphere Earth mantle planetary mantles
. Earth mantle asthenosphere coesite core-mantle boundary Earth crust lunar mantle plates (tectonics) regolith sea floor spreading siderophile elements stishovite

shear layers

space weather

thermosphere

#### ∞ Earth motion SN

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Chandler wobble

structural properties (geology)

subduction (geology)

Earth movements Earth orientation Earth rotation polar wandering (geology) solar orbits

## Earth movements

Earth movements GS

earthquakes landslides

RT avalanches crevasses

crustal fractures Earth motion

earthquake damage geodynamics

large aperture seismic array

neotectonics sea floor spreading seismic waves seismology tectonics tsunami waves

Earth observations (from space)

The acquisition of Earth surface data from aircraft or spacecraft.

GS observation

## . Earth observations (from space)

. satellite observation aerial photography Aqua spacecraft

Aura spacecraft

CALIPSO (Pathfinder satellite)

CERES (experiment) CloudSat

data acquisition

Earth Observing System (EOS)

Earthnet

Feature Identification and Location

Exper

International Geosphere-Biosphere

program Landsat satellites

MODIS (radiometry) multispectral band scanners multispectral pand scanne multispectral photography observation scheduling photography Shuttle Imaging Radar

SPOT (French satellite)

Terra spacecraft

Earth Observing System (EOS)
DEF NASA's orbital multisensor observatory system for the long term acquisition of Earth sciences data to be operated in conjunction with an integrated ground-based science information system. This international system will become operational in 1995 when the first of four polar platforms will be launched. The first and third will be launched under U.S. auspices. The second under ESA auspices and the last under Japanese auspices.

EOS

#### GS Earth Observing System (EOS)

Aqua spacecraft

Aura spacecraft

CALIPSO (Pathfinder satellite)

CloudSat

Terra spacecraft

Advanced Microwave Sounding Unit

CERES (experiment) data products

Earth observations (from space)

EOS data and information system

Ice, Cloud and Land Elevation Satellite

information systems

Landsat 6 Landsat 7

MISR (radiometry) Mission to Planet Earth

remote sensing space platforms

space station payloads space station polar platforms

## Earth orbital environments

GEO environments

Geosynchronous Earth Orbital Environments LEO environments

low Earth orbital environments

environments

. aerospace environments

.. Earth orbital environments

. extraterrestrial environments . . Earth orbital environments

extraterrestrial radiation low Earth orbits microgravity near Earth objects space weather spacecraft glow

## Earth orbital rendezvous

EOR (rendezvous)

GS maneuvers

. orbital maneuvers

. . orbital rendezvous

. . Earth orbital rendezvous

rendezvous

. space rendezvous

. . orbital rendezvous

. . Earth orbital rendezvous

lunar orbital rendezvous orbital mechanics rendezvous trajectories spacecraft trajectories transfer orbits

Earth orbiting space stations USE space stations

#### Earth orbits

(ORBITS AROUND THE EARTH)

orbits

Earth orbits

geosynchronous orbits

low Earth orbits

. . twenty-four hour orbits

RT apogees

Apollo asteroids circular orbits

circumlunar trajectories

elliptical orbits

equatorial orbits Hansen lunar theory

Hill lunar theory Hill method lunar orbits

Near Earth Asteroid Rendezvous

Mission orbital lifetime orbital mechanics parking orbits

perigees planetary orbits polar orbits

satellite orbits

spacecraft orbits stationary orbits

transfer orbits

## Earth orientation

Chandler wobble Earth axis ∞ Earth motion Earth rotation

nutation

polar wandering (geology) precession

## Earth planetary structure

asthenosphere continental drift Earth analogs geology geophysics hydrology lithosphere oceanography planetary composition planetary structure plates (tectonics) primitive Earth atmosphere structural properties (geology)

∞ structures

# Earth radiation budget

|                | tectonics   | energy policy                                     | EOS data and information system                              |
|----------------|---|---|--|
| Earth ra       | adiation  | energy technology<br>environment management       | NASA programs<br>programs                                    |
|                | terrestrial radiation   | environment pollution                             | Skylab program   |
| Earth re       | adiation budget   | environmental surveys                             | ∞ systems  |
|                | adiation budget<br>energy budgets   | EROS (satellites) farm crops                      | Earth Resources Observation Satellites                       |
|                | Earth radiation budget  | farmlands   | USE EROS (satellites)  |
| RT             | atmospheric heat budget atmospheric radiation                               | fishes  | Forth Bosonson Brownson                                      |
| ~              | - aunospriene radiation<br>- budgets  | flats (landforms)<br>∞ food                       | Earth Resources Program GS programs                          |
|                | CERES (experiment)  | forest management                                 | . NASA programs  |
|                | Earth albedo Earth radiation budget experiment                              | geographic applications program                   | NASA space programs  |
|                | heat budget   | geothermal energy conversion<br>grains (food)     | Earth Resources Program Earth Resources Survey               |
|                | Surface Meteorology and Solar   | granite   | Program  |
|                | Energy project Surface Radiation Budget project                             | grasslands  | SEASAT program   |
|                | terrestrial radiation   | Great Basin (US) Great Lakes (North America)      | . space programs<br>NASA space programs                      |
|                | TRMM satellite  | Great Cakes (North America) Great Salt Lake (UT)  | Earth Resources Program                                      |
| Earth re       | adiation budget experiment  | ground water                                      | Earth Resources Survey                                       |
| DEF            | adiation budget experiment Radiation measurements to determine              | habitats  | Program SEASAT program                                       |
|                | ial and temporal variations of the Earth's                                  | hay<br>ice mapping                                | RT Apollo applications program                               |
|                | e. The measurements have continued  | imagery   | change detection   |
|                | past two decades beginning with Ex-<br>in 1959 and through Nimbus 6 and 7.  | kettles (geology)                                 | geographic applications program infrared radiometers         |
| Used fo        |   | keys (islands)<br>land use                        | Large Area Crop Inventory                                    |
|                | ERBE  | Large Area Crop Inventory                         | Experiment   |
| GS             | payloads . Space Shuttle payloads   | Experiment  | plant stress   |
|                | Earth radiation budget  | lava<br>leguminous plants                         | satellite observation<br>Skylab program                      |
|                | experiment  | limestone   | Onylas program   |
| RT             | albedo CERES (experiment)   | mammals   | Earth resources shuttle imaging radar                        |
|                | Earth albedo  | marshlands<br>millet                              | USE Shuttle Imaging Radar                                    |
|                | Earth radiation budget  | mineral deposits                                  | Earth Resources Survey aircraft                              |
| ~              | o radiation   | minerals  | RT aerial photography  |
|                | radiation measuring instruments terrestrial radiation                       | Mississippi River (US)                            | aerial reconnaissance<br>∞ aircraft                          |
|                |   | NASA Interactive Planning System oats             | photogeology   |
|                | esources  | oceanography                                      | photoreconnaissance  |
| DEF<br>renewak | Power sources and renewable or non-<br>ble materials occurring naturally on | photography                                       | reconnaissance aircraft                                      |
| Earth.         | <b>J</b> ,  | photomapping<br>plants (botany)                   | Earth Resources Survey Program                               |
| GS             | resources   | reconnaissance                                    | GS programs  |
|                | . Earth resources forests   | regolith  | . NASA programs<br>NASA space programs                       |
|                | rain forests  | remote sensing remote sensors                     | Earth Resources Program                                      |
|                | fossil fuels  | resources management                              | Earth Resources Survey                                       |
|                | coal anthracite   | rivers  | <b>Program</b><br>SEASAT program                             |
|                | lignite   | rocks<br>rural land use                           | . space programs   |
|                | solvent refined coal  | sands   | NASA space programs  |
|                | crude oil natural gas   | sandstones  | Earth Resources Program Earth Resources Survey               |
|                | liquefied natural gas   | scanning<br>shales                                | Program  |
|                | peat  | soils   | SEASAT program   |
|                | shale oil<br>glaciers   | sorghum   | RT Apollo applications program Skylab program                |
|                | . icebergs  | spaceborne photography<br>spectral reconnaissance | Skylab program   |
|                | kerogen   | SPOT (French satellite)                           | Earth Resources Technology Satellite 1                       |
|                | land ice marine resources   | strip mining                                      | USE Landsat 1  |
|                | . oil fields  | sugar beets<br>sugar cane                         | Earth Resources Technology Satellite B                       |
|                | range resources   | sunflowers  | USE Landsat 2  |
|                | springs (water) tar sands   | surface water                                     | Earth Resources Technology Satellite C                       |
|                | thermal resources   | surveillance<br>terrain analysis                  | USE Landsat 3  |
|                | geothermal resources  | thermal mapping                                   |  |
|                | geysers   | tidepower   | Earth Resources Technology Satellite D USE Landsat 4         |
|                | underwater resources water resources  | timber identification                             | USE Lanusat 4  |
|                | aquifers  | timber inventory<br>tributaries                   | Earth Resources Technology Satellite E                       |
| RT             | alfalfa   | vegetation  | USE Landsat E  |
|                | arid lands<br>Baltic Shield (Europe)  | vineyards   | Earth Resources Technology Satellite F                       |
|                | bedrock   | waterwave energy<br>waterwave energy conversion   | USE Landsat F  |
|                | birds   | waterwave energy conversion wharves               |  |
|                | brush (botany)<br>chaparral   | windpower utilization                             | Earth Resources Technology Satellites USE Landsat satellites |
|                | coastal ecology   |   | OOL Lanusat satemites  |
|                | coastal plains  | Earth Resources Experiment Package USE EREP       | Earth rotation   |
|                | corn  | USL EREP  | GS gyration  |
|                | cotton<br>crop growth   | Earth Resources Information System                | . rotation<br>Earth rotation                                 |
|                | crop identification   | GS information systems                            | RT Chandler wobble   |
|                | deciduous trees<br>deserts  | . Earth Resources Information<br>System           | ∞ Earth motion<br>Earth orientation                          |
|                | 4000110   | Oystelli  | Earth Onemation  |

RT data systems

sidereal time

Earthnet

superrotation atmospheric duct formed by the ionospheric D seismic energy region and the surface of the Earth making seismic waves Earth sciences possible long-range communications in the seismology (added December 1991) 10KHz frequency range. shock waves atmospheric physics GS waveguides tsunami waves Earth (planet) Earth-ionosphere waveguide ecology D region earthquake resistance geochemistry Earth ionosphere DEF Structural strength of natural geological formations reacting to seismic forces. geodynamics ionospheric propagation geology plasmaguides mechanical properties geomagnetism radio transmission earthquake resistance geophysics crustal fractures very low frequencies hydrodynamics earthquakes hydrology Earth-Mars trajectories fracture strength meteorology GS trajectories impact strength landforms oceanography spacecraft trajectories seismology . . interplanetary trajectories ∞ resistance . Earth-Mars trajectories seismic waves Earth shape elliptical orbits shock resistance USE geodesy Mars exploration shock waves Mars missions tremors Earth surface orbital mechanics lithosphere transfer orbits earthquake resistant structures Earth surface Buildings and other structures de-Earth-Mercury trajectories
GS trajectories signed for maximum safety and protection from cratons the effects of earthquakes. crustal fractures equatorial regions . spacecraft trajectories concrete structures geodetic accuracy . . interplanetary trajectories
. . . Earth-Mercury trajectories elastic bending ∞ elastic systems marshlands ocean surface elliptical orbits seismic waves planetary surfaces orbital mechanics shock waves structural properties (geology) transfer orbits structural vibration ∞ surfaces ∞ structures terradynamics Earth-Moon system topography Charon earthquakes gravitational fields DEF Sudden motions or tremblings in the Earth caused by the abrupt release of slowly Earth terminal measurement system gravitational waves NBS system for measuring electroaccumulated strain. lunar retroreflectors magnetic parameters of communication satel-Earth movements moon GS lites and ground stations relative to antenna natural satellites earthquakes crustal fractures gain, ratio of carrier power to operating noise orbital mechanics temperature, and satellite effective isotropic earthquake resistance solar system power. geological faults systems RT communication satellites large aperture seismic array two body problem electromagnetic measurement microseisms electronic equipment tests Earth-Moon trajectories planetary quakes ground support equipment GS trajectories plates (tectonics) . spacecraft trajectories ∞ measurement Rouse belts radio relay systems . . lunar trajectories San Andreas Fault ... Earth-Moon trajectories
Apollo 5 flight
Apollo 6 flight
Apollo 7 flight
Apollo 8 flight ∞ systems San Andreas Fault experiment ∞ test equipment seismic waves seismology Earth terminals shock waves Portable or stationary ground-based subduction (geology) equipment used to transmit and receive signals Apollo 9 flight tremors and other data via satellites in communications Apollo 10 flight tsunami waves networks Apollo 11 flight GS stations Apollo 12 flight Earth-Venus trajectories . ground stations Apollo 13 flight GS trajectories . Earth terminals Apollo 14 flight spacecraft trajectories carrier to noise ratios Apollo 15 flight ... interplanetary trajectories communication equipment Apollo 16 flight .. Earth-Venus trajectories radio relay systems Apollo 17 flight RT ∞ astronautics satellite communication circumlunar trajectories flight optimization satellite transmission cislunar space interplanetary flight spacecraft communication interplanetary trajectories ∞ missions television systems lunar flight orbits VSAT (network) lunar orbits space missions moon-Earth trajectories space navigation Earth tides parking orbits spacecraft reentry GS tides rendezvous trajectories transfer orbits Earth tides round trip trajectories RT atmospheric tides **EASEP** transfer orbits lunar tides Early Apollo Surface Experiments Earthnet Package **Earth Viewing Applications Laboratory** Earth observations (from space) packages Earth resources . instrument packages GS laboratories ESA satellites EASEP . space laboratories European space programs RT ∞ instruments .. Earth Viewing Applications Landsat satellites lunar exploration Laboratory remote sensors payloads payloads synthetic aperture radar ∞ surfaces . Space Shuttle payloads

earthquake damage

damage

Earth crust

microseisms

Earth movements

geological faults

earthquake damage

GS

RT

Earth Viewing Applications

Laboratory

A natural waveguide consisting of the

RT SAIL project

Earth-ionosphere waveguide

(added August 1991)

**East Germany** 

nations

**East Germany** 

Central Europe

GS

RT

German Democratic Republic

Germany

Peoples Democratic Republic of

## **Eastern Hemisphere**

Europe linkages . . . phonocardiography German space program echocardiography echelette gratings cardiac ventricles Germany West Germany gratings (spectra) heart diseases echelette gratings heart function East Pakistan diffraction USE Bangladesh echelle gratings echoencephalography reflection DEF A diagnostic technique in which pulses Eastern Hemisphere of ultrasonic waves are beamed through the Earth (planet) echelle gratings head from both sides, and echoes from the (added August 1988) GS gratings (spectra) geography midstructures of the brain are recorded as ∞ hemispheres graphic tracings. echelle gratings Western hemisphere GS bioengineering diffraction . biometrics eating echelette gratings . echoencephalography GŠ ingestion (biology) reflection bioinstrumentation eating brain digesting echelon faults electrophysiology USE geological faults ∞ food medical electronics mastication medical equipment space flight feeding Echo 1 carrier rocket USE Thor Delta launch vehicle swallowing echoes synthetic food Waves that have been reflected or Echo 1 satellite otherwise returned with sufficent magnitude and A-11 satellite **Ebert spectrometers** delay to be detected as a wave distinct from that GS artificial satellites GS measuring instruments directly transmitted. In radar, a pulse of reflected . passive satellites . optical measuring instruments radiofrequency energy; the appearance on a . . Echo satellites . Ebert spectrometers radar indicator of the energy returned from a . radiation measuring instruments . Echo 1 satellite target. RT Thor Delta launch vehicle . . Ebert spectrometers ĞS echoes spectrometers . auroral echoes Echo 2 satellite . . Ebert spectrometers lunar echoes A-12 satellite optical equipment . . lunar radar echoes GS artificial satellites . optical measuring instruments . radar echoes . passive satellites . Ebert spectrometers . . angels (radar) . . Echo satellites Earth albedo . . clutter . Echo 2 satellite filter wheel infrared spectrometers . . lunar radar echoes unmanned spacecraft infrared spectrometers . . solar radar echoes . Echo 2 satellite ultraviolet spectrometers . . Venus radar echoes . radio echoes Echo project EBF . signal reflection programs
. NASA programs USF externally blown flaps GS RT acoustics cepstral analysis . . NASA space programs EBR-1 reactor echo sounding USE Experimental Breeder Reactor 1 . Echo project ground effect (communications) . projects noise (sound) . Echo project EBR-2 reactor reverberation USE Experimental Breeder Reactor 2 space programs . NASA space programs eclipse project ebullition Echo project GS programs USE boiling communication satellites . projects passive satellites ... eclipse project EBWR (reactor) Echo satellites USE experimental boiling water reactors eclipses GS artificial satellites DEF The reductions in visibility or disap-FC-121 aircraft . passive satellites pearances of nonluminous bodies by passing USE C-121 aircraft .. Echo satellites into the shadows cast by another nonluminous Echo 1 satellite body. The apparent cutting off, wholly or par-EC-135 aircraft . . Echo 2 satellite tially, of the light from a luminous body by a dark USF C-135 aircraft Agena B rocket vehicle body coming between it and the observer. Agena rocket vehicles eclipses Eccentric Geophysical Observatory echo sounding . lunar eclipses EGO USE solar eclipses GS sounding eclipsing binary stars Eccentric Orbit Geophysical Observatory echo soundina deep scattering layers depth measurement lunar shadow USE EGO occultation eccentric orbits penumbras echoes navigation aids GS orbits umbras eccentric orbits sonar eclipsing binary stars circular orbits sound localization celestial bodies elliptical orbits sound ranging Exosat satellite . stars underwater acoustics Lissajous figures . . double stars ... binary stars echo suppressors eccentricity circuits .... eclipsing binary stars GS abnormalities . echo suppressors . . . . . dwarf novae RT asymmetry Lambda Tauri stars suppressors balancing . . . . Zeta Aurigae star echo suppressors concentricity accretion disks RT noise reduction cataclysmic variables deviation pulse radar ellipticity eclipses radiotelephones stellar occultation elongation sonar superhumps (astronomy) symbiotic stars skewness switches symmetry telephony variability variable stars voice communication variations x ray binaries echocardiography

GS bioengineering

. biometrics

. . cardiography

ecliptic

DEF

The apparent annual path of the sun

among the stars; the intersection of the plane of

274

eccentrics UF cr

RT

cranks

cams

| the Earth's orbit with the celestial sphere. The   | developing nations  | electrical properties   |
|--|---|---|
| ecliptic is a great circle of the celestial sphere   | domestic energy   | hysteresis  |
| inclined at an angle of about 23 degrees 27  | economy   | losses  |
| minutes to the celestial equator.  | efficiency  | magnetic properties   |
| RT planets   | energy policy   | ∞ physical properties   |
| solar orbits   | feasibility analysis  | plasma currents   |
|  |   |   |
| zodiac   | industrial energy   | vorticity transport hypothesis  |
|  | insurance (contracts)   | -   -   -   -   -   -   -   -   -   |
| eclogite   | management  | eddy diffusion  |
| GS rocks   | reserves  | USE turbulent diffusion   |
| . igneous rocks  | resources   |   |
| eclogite   | transportation energy   | eddy viscosity  |
| RT gadolinium-gallium garnet   |   | DEF The turbulent transfer of momentum by   |
| garnets  | economic impact   | eddies giving rise to an internal fluid friction, in a  |
| pyroxenes  | DEF The impact on the economy from what-  | manner analogous to the action of molecular   |
| soils  | ever cause.   | viscosity in laminar flow, but taking place on a  |
| 00110  | GS impact   | much larger scale.  |
| ecological systems   | . economic impact   | GS transport properties   |
| USE ecosystems   | RT costs  | . viscosity   |
| OSL ecosystems   |   |   |
| analamy  | environments  | . eddy viscosity  |
| ecology  | industries  | RT Baldwin-Lomax turbulence model   |
| DEF The study of the environmental rela-   | investments   | flow characteristics  |
| tions of organisms. Used for ecological systems.   | resources   | flow resistance   |
| GS <b>ecology</b>  |   | internal friction   |
| . coastal ecology  | economics   | large eddy simulation   |
| RT biochemical oxygen demand   | DEF Study of the production, distribution,  | turbulent flow  |
| ∞ biology  | and consumption of goods and services.  | viscous drag  |
| biometeorology   | GS economics  | viscous flow  |
| carbon cycle   | . demand (economics)  | VICCOUG HOW   |
| Central Atlantic Regional Ecol Test  | RT costs  | edema   |
|  |   |   |
| Site   | econometrics  | GS signs and symptoms   |
| closed ecological systems  | evaluation  | _ edema   |
| coastal plains   | fiduciaries   | RT body fluids  |
| Earth sciences   | income  | diuresis  |
| ecosystems   | international trade   | water balance   |
| endangered species   | investments   |   |
| energy policy  | prejudices  | edge cracks   |
| environments   | progress  | (added October 1997)  |
| Gaia hypothesis  | recession   | GS fractures (materials)  |
| habitability   |   | . cracks  |
|  | resources   |   |
| habitats   | statistical analysis  | edge cracks   |
| phenology  |   | RT cracking (fracturing)  |
| predators  | economy   | edge loading  |
| symbiosis  | RT cost estimates   | edges   |
| vegetation growth  | decision making   | stress intensity factors  |
|  | economic analysis   | surface cracks  |
| e-commerce   | economic development  |   |
| (added April 2000)   | economic factors  | edge detection  |
| USE electronic commerce  | financial management  | (added January 1990)  |
| OOL CICCHOING COMMICICE  |   | UF boundary detection (imagery)   |
| econometrics   | low cost  | GS detection (magery)   |
|  | management planning   |   |
| DEF The application of mathematics and   | recycling   | edge detection  |
| statistical techniques to the testing and quanti-  |   | RT computer vision  |
| fying of economic theories and the solution of   | ecosystems  | image analysis  |
| economic problems.   | UF ecological systems   | image processing  |
| RT ∞ applications of mathematics   | RT closed ecological systems  | pattern recognition   |
| economics  | ecology   | scene analysis  |
| gross national product   | endangered species  | •   |
| statistical correlation  | food chain  | edge dislocations   |
|  | Gaia hypothesis   | UF slip bands   |
| economic analysis  | predators   | GS defects  |
| RT allocations   | ·   |   |
|  |   | crystal defects   |
|  | ∞ systems   | . crystal defects   |
| comparison   |   | crystal dislocations  |
| cost analysis  | ECS   | crystal dislocations edge dislocations  |
| cost analysis<br>cost estimates  | ECS USE European Communications   | <ul><li>. crystal dislocations</li><li> edge dislocations</li><li>dislocations (materials)</li></ul>  |
| cost analysis<br>cost estimates<br>costs   | ECS   | <ul> <li>. crystal dislocations</li> <li> edge dislocations</li> <li>dislocations (materials)</li> <li>. crystal dislocations</li> </ul>  |
| cost analysis<br>cost estimates<br>costs<br>economy  | ECS USE European Communications   | <ul> <li>. crystal dislocations</li> <li> edge dislocations</li> <li>dislocations (materials)</li> <li>crystal dislocations</li> <li>. edge dislocations</li> </ul>   |
| cost analysis<br>cost estimates<br>costs   | ECS USE European Communications   | <ul> <li>. crystal dislocations</li> <li> edge dislocations</li> <li>dislocations (materials)</li> <li>. crystal dislocations</li> </ul>  |
| cost analysis<br>cost estimates<br>costs<br>economy  | ECS USE European Communications Satellite   | <ul> <li>. crystal dislocations</li> <li> edge dislocations</li> <li>dislocations (materials)</li> <li>crystal dislocations</li> <li>. edge dislocations</li> </ul>   |
| cost analysis cost estimates costs economy efficiency management   | ECS USE European Communications Satellite  Ecuador GS nations   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands   |
| cost analysis cost estimates costs economy efficiency management operating costs   | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands  |
| cost analysis cost estimates costs economy efficiency management   | ECS USE European Communications Satellite  Ecuador GS nations   | orystal dislocations     dislocations dislocations (materials)     crystal dislocations     dege dislocations     dege dislocations  RT ∞ bands     kink bands     screw dislocations   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering   | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  | . crystal dislocations . edge dislocations dislocations (materials) crystal dislocations . edge dislocations RT ∞ bands kink bands screw dislocations  edge loading   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering economic development  | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  eddies  | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces)   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce   | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  | crystal dislocations edge dislocations dislocations (materials) crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading  |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy  | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  eddies USE vortices  Eddington approximation  | crystal dislocations edge dislocations dislocations (materials) crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics)  | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography  | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  eddies USE vortices  Eddington approximation  | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads edge cracks   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics)  | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) . numerical analysis . approximation   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads edge cracks   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use  | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) . numerical analysis   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads  |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation . Eddington approximation   | crystal dislocations edge dislocations dislocations (materials) crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) . numerical analysis approximation Eddington approximation eddy currents   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges  |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization  | ECS USE European Communications Satellite  Ecuador GS nations . Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) . numerical analysis . approximation Eddington approximation eddy currents SN (LIMITED TO ELECTRIC CURRENTS)   | crystal dislocations edge dislocations dislocations (materials) crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) Inumerical analysis I approximation Eddington approximation I Eddington approximation I Eddington approximation I Eddington approximation  eddy currents SN (LIMITED TO ELECTRIC CURRENTS) DEF Electric currents caused to flow in a   | crystal dislocations edge dislocations dislocations (materials) crystal dislocations edge dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges leading edges   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization urban development  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation Eddington approximation  CS (mathematics) COMMUNICATION (MICHARLES) COMMUNICATION (MICHARLES) DEF Electric currents caused to flow in a conductor by the time or space variation, or  | . crystal dislocations . edge dislocations dislocations (materials) crystal dislocations . edge dislocations  RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges leading edges blunt leading edges  |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization urban development economic factors                           | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation Eddington approximation  Eddington approximation  Eddington approximation  eddy currents SN (LIMITED TO ELECTRIC CURRENTS) DEF Electric currents caused to flow in a conductor by the time or space variation, or both, of an applied magnetic field.   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges leading edges blunt leading edges sharp leading edges   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization urban development  | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation Eddington approximation  CS (mathematics) COMMUNICATION (MICHARLES) COMMUNICATION (MICHARLES) DEF Electric currents caused to flow in a conductor by the time or space variation, or  | . crystal dislocations . edge dislocations dislocations (materials) crystal dislocations . edge dislocations  RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges leading edges blunt leading edges  |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization urban development  economic factors                          | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation Eddington approximation  Eddington approximation  Eddington approximation  eddy currents SN (LIMITED TO ELECTRIC CURRENTS) DEF Electric currents caused to flow in a conductor by the time or space variation, or both, of an applied magnetic field.   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges leading edges blunt leading edges sharp leading edges   |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization urban development  economic factors RT allocations budgeting | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation Eddington approximation Eddington approximation GS analysis (Eddington approximation) Communication approximation Eddington approximation  eddy currents SN (LIMITED TO ELECTRIC CURRENTS) DEF Electric currents caused to flow in a conductor by the time or space variation, or both, of an applied magnetic field. GS electric current eddy currents | crystal dislocations edge dislocations dislocations (materials) crystal dislocations edge dislocations Provided in the state of the |
| cost analysis cost estimates costs economy efficiency management operating costs value engineering  economic development RT commerce developing nations economy geographic distribution geography industries land use manufacturing resources space industrialization urban development  economic factors RT allocations           | ECS USE European Communications Satellite  Ecuador GS nations Ecuador RT South America  eddies USE vortices  Eddington approximation GS analysis (mathematics) numerical analysis approximation Eddington approximation Unimited approximation Eddy currents SN (LIMITED TO ELECTRIC CURRENTS) DEF Electric currents caused to flow in a conductor by the time or space variation, or both, of an applied magnetic field. GS electric current   | crystal dislocations edge dislocations dislocations (materials) . crystal dislocations edge dislocations RT ∞ bands kink bands screw dislocations  edge loading GS loads (forces) . edge loading RT aerodynamic loads compression loads dynamic loads edge cracks static loads wing loading  edges GS edges . leading edges . blunt leading edges . sharp leading edges . trailing edges  |

rims training devices Mossbauer effect scalloping Nernst-Ettingshausen effect sides EEG (electroencephalograms) nonohmic effect tips USE electroencephalography nuclear explosion effect Overhauser effect effective perceived noise levels pathological effects editing UF **EPNL** Peltier effects GS level (quantity) RT data processing Penning effect effective perceived noise levels data reduction photoelectric effect editing routines (computers) acoustic measurement photoelectromagnetic effects acoustics photomagnetic effects technical writing loudness photomechanical effect ∞ noise photovoltaic effect noise (sound) physiological effects editing routines (computers) noise intensity pinch effect computer programs noise reduction POGO effects editing routines (computers) sound intensity Portevin-le Chatelier effect Poynting-Robertson effect computer systems programs data processing effectiveness pressure effects proximity effect (electricity) psychological effects GS effectiveness editing . cost effectiveness system effectiveness radiation effects **EDTA** antenna gain Ramsauer effect USE ethylenediaminetetraacetic acids efficiency reentry effects relativistic effects ∞ effectors scale effect education (added September 1989) Schach effect (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.-CONSULT THE TERMS LISTED BELOW) UF instructions screen effect teaching Seebeck effect training solar activity effects RT actuators education control equipment end effectors Stark effect . ejection training sterilization effects . flight training Suhl effect manipulators . . pilot training Sunyaev-Zeldovich effect . . space flight training surface effect ships ∞ effects . . . astronaut training surface roughness effects (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . gunnery training sweep effect . maintenance training temperature effects . programmed instruction UF affects thermoacoustic effects RT atmospheric effects . computer assisted instruction thermomagnetic effects behavior Auger effect turbulence effects Barkhausen effect communicating Umkehr effect creativity Bauschinger effect vacuum effects biological effects educational resources vibration effects experience Brillouin effect view effects brown wave effect human factors engineering Voigt effect capture effect human resources wind effects causes instructors Zeeman effect knowledge Cerenkov radiation Zener effect learning chemical effects Coanda effect learning theory efferent nervous systems compressibility effects lectures motor systems (biology) Compton effect memory anatomy Coriolis effect orientation . nervous system diffusion psychometrics . efferent nervous systems Doppler effect qualifications sensorimotor performance Doppler-Fizeau effect retraining ∞ systems electro-optical effect safety management environment effects schools effervescence Ettingshausen effect Faraday effect students RT boiling ∞ tests bubbles field effect transistors textbooks surface properties Fizeau effect training analysis efficiency training devices Forbush decreases GS efficiency galvanomagnetic effects transfer of training charge efficiency combustion efficiency universities gravitational effects green wave effect greenhouse effect . compressor efficiency educational resources ground effect (aerodynamics) energy conversion efficiency (added April 2004) ground effect (communications) . nozzle efficiency DEF Products produced for educational or ground effect machines . power efficiency Gunn effect . propulsive efficiency training purposes. educational resources Hall effect . . propeller efficiency GS hydrodynamic ram effect . thermodynamic efficiency . textbooks isotope effect . transmission efficiency education learning Jahn-Teller effect aircraft production costs manuals jet blast effects comfort . Joule-Thomson effect commonality Kerr effects compression ratio Kerr electrooptical effect computer systems performance educational television telecommunication Kerr magnetooptical effect cost incentives educational television Kirkendall effect cost reduction television systems Kondo effect costs long term effects educational television economic analysis closed circuit television lunar effects economic factors color television lunar gravitational effects effectiveness Luxembourg effect magnetic effects feasibility communication equipment learning figure of merit

Magnus effect

Moire effects

human factors engineering

incentive techniques

networks

stereotelevision

|                    | indexes (ratios)  |          | Merlin (helicopter)                    | RT                     | einsteinium compounds                             |
|--------------------|---|----------|--|------------------------|---|
|                    | optimization  | GS       | V/STOL aircraft                        |                        |   |
| 0                  | performance   |          | . rotary wing aircraft                 |                        | nium compounds                                    |
|                    | productivity ratios   |          | helicopters<br>EH-101 helicopter       | GS                     | actinide series compounds . einsteinium compounds |
|                    | utilization   | RT o     | ∘ aircraft                             | RT                     | einsteinium                                       |
|                    |   |          | commercial aircraft                    |                        |   |
| effluent           |   |          | military helicopters                   |                        | radar system (Europe)                             |
| RT                 | air pollution   | ELIM (   |  |                        | The European Incoherent Scatter Ra-               |
|                    | contaminants<br>discharge                                     |          | computers)<br>ed September 2001)       | ter Rada               | em. Used for European Incoherent Scat-            |
| ~                  | environment protection  |          | evolvable hardware                     | UF                     | European Incoherent Scatter Radar                 |
|                    | exhaust gases   | 002      |  | GS                     | radar   |
|                    | filtration  | eigenfu  | nctions                                |                        | . incoherent scatter radar                        |
|                    | liquid wastes   | USE      | eigenvectors                           |                        | EISCAT radar system (Europe)                      |
|                    | reaction products   |          |  | RT                     | incoherent scattering                             |
|                    | settling  | eigenst  |  |                        | international cooperation                         |
|                    | sewage  | USE      | eigenvectors                           |                        | ionospheric propagation                           |
|                    | sewers<br>volcanic eruptions                                  | eigenva  | alues                                  |                        | radar scattering radar transmission               |
|                    | waste disposal  | UF       | characteristic equations               | ~                      | systems   |
|                    | wastes  |          | characteristic functions               |                        | ultrahigh frequencies                             |
|                    |   | GS       | algebra                                |                        | 3 1,11  |
| efflux             |   |          | . vector spaces                        | ejecta                 |   |
| RT                 | emission  |          | matrices (mathematics)                 | DEF                    | Matter ejected during impact cratering            |
|                    | output  | DT       | eigenvalues                            |                        | es, usually meteoritic.                           |
| - 66               |   | RT       | eigenvectors                           | RI                     | cratering   |
| effort<br>RT       | abilities   |          | flux vector splitting Hill determinant |                        | craters   |
| ΚI                 | abilities<br>consistency                                      |          | Jacobi matrix method                   |                        | debris<br>ejection                                |
|                    | fatigue (biology)   |          | Jordan form                            |                        | fragments   |
| 0                  | performance   |          | polynomials                            |                        | impact damage                                     |
|                    | physical work   |          | roots of equations                     |                        | Mars craters                                      |
|                    | . ,   |          | ·                                      |                        | meteorite craters                                 |
| effusive           |   | eigenve  |  |                        | meteoritic damage                                 |
| GS                 | effusives   | UF       | characteristic equations               |                        | projectile cratering                              |
| БТ                 | . lava  |          | characteristic functions               |                        | Wolf-Rayet stars                                  |
| RT                 | cones (volcanoes)   |          | eigenfunctions                         | alaatlau               |   |
|                    | igneous rocks<br>Mars volcanoes                               | GS       | eigenstates<br>algebra                 | <b>ejectio</b> n<br>GS | ı<br>ejection                                     |
|                    | rocks   | 00       | . vector spaces                        | 65                     | . stellar mass ejection                           |
|                    | volcanoes   |          | matrices (mathematics)                 |                        | coronal mass ejection                             |
|                    | volcanology   |          | eigenvectors                           | RT                     | bailout   |
|                    |   |          | vectors (mathematics)                  | ~                      | o discharge                                       |
| EGCR (             |   |          | eigenvectors                           |                        | disconnect devices                                |
| USE                | experimental gas cooled reactors                              | RT       | eigenvalues                            |                        | disposal  |
|                    |   |          | Jacobi matrix method                   |                        | dumping   |
| eggs               | cella (biology)   |          | Mathieu function                       |                        | ejecta  |
| GS                 | cells (biology) . gametocytes                                 |          | polynomials                            |                        | ejectors  |
|                    | eggs  | eikonal  | equation                               |                        | emission<br>emptying                              |
|                    | zygotes   | GS       | wave equations                         |                        | escape (abandonment)                              |
| RT                 | embryos   |          | eikonal equation                       |                        | escape systems                                    |
|                    | fetuses   | RT o     | ∘ equations                            |                        | evacuating (transportation)                       |
| 0                  | food  |          | geometrical optics                     |                        | evacuating (vacuum)                               |
|                    | ovaries   |          | Pomeranchuk theorem                    |                        | exhausting  |
|                    |   |          | refracted waves                        |                        | expulsion   |
| EGO<br>UF          | Facontria Coophysical Observatory                             |          | wave fronts                            |                        | expulsion bladders                                |
| UF                 | Eccentric Geophysical Observatory Eccentric Orbit Geophysical | c        | ∘ waves                                |                        | flushing  |
|                    | Observatory   | Finstei  | n equations                            |                        | jettison systems<br>jettisoning                   |
|                    | EOGO  | GS       | analysis (mathematics)                 |                        | materials handling                                |
| GS                 | artificial satellites   |          | . real variables                       |                        | parachute descent                                 |
|                    | . geophysical satellites                                      |          | Einstein equations                     |                        | releasing   |
|                    | OGO   | RT       | Brownian movements                     |                        | removal   |
|                    | EGO   |          | diffusion                              |                        | shedding  |
|                    | observatories   |          | diffusion theory                       |                        | throwing  |
|                    | . geophysical observatories                                   | c        | equations                              |                        | unloading   |
|                    | OGO<br><b>EGO</b>   |          | equations of motion                    | alaatlau               | n injuries  |
| RT                 | Agena B rocket vehicle  |          | grand unified theory kinetic equations |                        | injuries<br>injuries                              |
| 17.1               | Atlas launch vehicles   |          | probability theory                     | 00                     | . ejection injuries                               |
|                    | POGO  |          | producting tricery                     | RT                     | bailout   |
|                    |   | Einsteir | Observatory                            |                        | pilot training                                    |
| egress             |   | USE      | HEAO 2                                 |                        |   |
| RT                 | air locks   |          |  | ejection               |   |
|                    | doors   | einstei  |  | GS                     | onboard equipment                                 |
|                    | hatches   | GS       | chemical elements                      |                        | . aircraft equipment                              |
|                    | ingress (spacecraft passageway)                               |          | . actinide series                      |                        | . ejection seats                                  |
|                    | openings<br>outlets   |          | transuranium elements einsteinium      |                        | flying ejection seats safety devices              |
|                    | outiets   |          | . nuclides                             |                        |   |
| Egypt              |   |          | . isotopes                             |                        | . ejection seats flying ejection seats            |
| <b>⊑gypt</b><br>GS | nations   |          | radioactive isotopes                   |                        | seats   |
| 50                 | . Egypt   |          | transuranium elements                  |                        | . ejection seats                                  |
| RT                 | Africa  |          | einsteinium                            |                        | flying ejection seats                             |
|                    |   |          | metals                                 | RT                     | abort apparatus                                   |
|                    | helicopter  |          | . actinide series                      |                        | aircraft safety                                   |
|                    | ed April 1997)  |          | transuranium elements                  |                        | bailout   |
| UF                 | Heliliner (helicopter)  |          | einsteinium                            |                        | cockpits  |

ejectors . plastic anisotropy plastic plates escape capsules ... elastic anisotropy elastic properties escape systems Properties of materials by virtue of jettison systems elastic bars which they tend to recover their original size and  ${\scriptstyle \infty\, propellant \ actuated \ devices}$ GS bars shape immediately after removal of the forces elastic bars causing deformation. Used for elastic constants ejection training and elasticity. GS education elastic bending elastic constants UF ejection training GS bending elasticity astronaut training elastic bending mechanical properties bailout deformation elastic properties escape (abandonment) . elastic deformation . . aeroelasticity flight training . elastic bending . . . aeroservoelasticity parachute descent earthquake resistant structures ... aerothermoelasticity pilot training . . anelasticity elastic bodies . . elastoplasticity ejectors RT ∞ bodies . . hydroelasticity DEF Devices consisting of a nozzle, mixing ∞ elastic systems . . hypoelasticity tube, and diffuser utilizing the kinetic energy of a . . magnetostriction elastodynamics fluid from a low pressure region by direct mixing elastostatics . . modulus of elasticity and ejecting both streams. plastic bodies . . . dynamic modulus of elasticity dispensers . . photoelasticity ejection elastic buckling . . . photoviscoelasticity ejection seats buckling . . proportional limit exhaust diffusers elastic buckling . . thermoelasticity exhaust nozzles deformation . . . aerothermoelasticity exhaust systems . elastic deformation . . viscoelasticity flying ejection seats elastic buckling . . . photoviscoelasticity injectors ... thermoviscoelasticity failure modes iet engines . ferroelasticity jet pumps materials handling RT Airy function elastic collisions biharmonic equations USE elastic scattering pumps compressive strength rocket engines elastodynamics elastic constants sprayers elastometers USE elastic properties vacuum pumps elastostatics Euler-Bernoulli beams Ekman layer elastic cylinders flexibility DFF The layer of transition between the RT ∞ cylinders Hookes law surface boundary layer of the atmosphere, where the shearing stress is constant, and the cylindrical bodies hybrid structures cylindrical shells free atmosphere, which is treated as an ideal influence coefficient microsonics fluid in approximate geostrophic equilibrium. elastic damping microyield strength atmospheric boundary layer RT GS damping ∞ physical properties boundary layer transition elastic damping piezoelectricity ∞ layers . viscoelastic damping plastic properties mixing layers (fluids) elastodynamics Poisson ratio porous boundary layer control . elastic damping propellant properties turbulent boundary layer . viscoelastic damping properties resonance testing resilience ekranoplanes vibration damping softness (added December 1999) viscous damping strain energy release rate USE wing-in-ground effect vehicles stress tensors elastic deformation tensile properties el Nino GS deformation DEF A warming of the surface waters of the eastern equatorial Pacific Ocean that cocurs at tensile strength . elastic deformation yield strength . . elastic bending irregular intervals of 1-2 years, usually lasting elastic scattering . elastic buckling 1-2 years. elastic collisions UF axial strain GS circulation scattering GS bending . water circulation elastic scattering Bordoni peaks . . water currents deflection atomic collisions . . . ocean currents elastodynamics . . . el Nino coherent scattering elastostatics air water interactions flexible spacecraft electron scattering Madden-Julian Oscillation Glauber theory plane strain ocean temperature inelastic scattering plastic deformation Pacific Ocean nuclear scattering prestressing periodic variations photon-electron interaction strain distribution quasi-biennial oscillation strain energy release rate Pomeranchuk theorem Southern Oscillation stress-strain relationships elastic sheets tropical meteorology stretching RT girder webs structural strain ∞ sheets El Salvador tensile deformation webs (sheets) GS nations webs (supports) El Salvador elastic media RT Central America elastic shells GS media GS shells (structural forms) elastic media Elara elastic shells elastodynamics (added July 1995) anisotropic shells elastostatics A natural satellite of Jupiter, orbiting at plastic shells a mean distance of 11,737,000 kilometers. elastic stability elastic modulus celestial bodies USE damping USE modulus of elasticity . natural satellites . . Jupiter satellites elastic strength elastic plates . . Elara USE proportional limit RT Jupiter (planet) structural members GS ∞ elastic systems . plates (structural members) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS elastic anisotropy . elastic plates

RT plastic bodies

LISTED BELOW)

GS anisotropy

earthquake resistant structures reflected waves thioplastics elastic bodies refracted waves elastometers ∞ systems sine waves measuring instruments solitary waves GS sound transmission elastometers elastic waves spherical waves elastic properties expansion waves stress propagation extensometers loading waves surface waves strain gages pressure waves transverse waves rarefaction waves elastoplasticity traveling waves elastic waves tropospheric waves GS mechanical properties . capillary waves underwater acoustics . elastic properties . . gravity waves elastoplasticity vibration . . . baroclinic waves . plastic properties wave dispersion . . ripples elastoplasticity ∞ waves . coherent acoustic radiation RT J integral . compression waves plastic bodies . dilatational waves elasticity plastic plates USE elastic properties . ionic waves plastic shells . magnetoelastic waves superplastic forming . . magnetoacoustic waves elasticizers . magnetohydrodynamic waves elastostatics USE plasticizers . . plasma waves RT elastic bodies . . electrostatic waves elastic deformation . P waves elastin elastic media biopolymers GS . phonons elastic properties . proteins . phonon beams elastodynamics elastin . polarized elastic waves statics organic compounds . S waves . proteins . . SH waves Elber equation elastin . seismic waves DEF In fatigue crack propagation studies, albumins . . Love waves the effective stress range ratio U = 0.5 + 0.4R, . . microseisms where R is the stress ratio. Rayleigh waves RT crack closure elastodynamics . shock waves elastodynamics cracks . . detonation waves . elastic damping cyclic loads interplanetary shock waves . . viscoelastic damping ∞ equations Mach cones elastohydrodynamics fractography . . normal shock waves fracture mechanics RT ∞ dynamics oblique shock waves elastic bodies microcracks . . Riemann waves elastic deformation stress concentration . . sonic booms stress cycles elastic media . sound waves elastic properties . . electroacoustic waves elastic waves elbow (anatomy) . . ion acoustic waves elastostatics GS anatomy .. Lamb waves electrorheological fluids . limbs (anatomy) . . arm (anatomy) .. noise (sound) . . . aircraft noise . . . elbow (anatomy) . musculoskeletal system elastohydrodynamics . . . . blade slap noise GS elastodynamics . . . . jet aircraft noise . . joints (anatomy) elastohydrodynamics . . . elbow (anatomy) . . . . propeller noise fluid mechanics . sonic booms appendages . fluid dynamics . arm (anatomy) ... engine noise . . hydrodynamics . rocket engine noise elbow (anatomy) elastohydrodynamics ... flow noise humerus . hydromechanics . . . thermal noise ulna . . hydrodynamics . . . . aerodynamic noise . . . . blade slap noise . elastohydrodynamics Eldo launch vehicle ball bearings . . . . propeller noise launch vehicles elastic waves . Eldo launch vehicle rocket vehicles . . . . screech tones friction measurement . stress waves lubrication . Tollmien-Schlichting waves . multistage rocket vehicles rotating cylinders . ultrasonic radiation . Eldo launch vehicle squeeze films Ariane launch vehicle Blue Streak launch vehicle . unloading waves water waves acoustic propagation acoustic simulation Europa launch vehicles acoustics European 1 spacecraft aeolian tones Macromolecular materials which, at European Space Agency background noise room temperature, are capable of recovering backward waves substantially in size and shape after removal of Electra aircraft cnoidal waves a deforming force. commercial aircraft coherent radiation GS elastomers Electra aircraft combustion vibration . rubber jet aircraft continuous radiation . . synthetic rubbers . turboprop aircraft cylindrical waves Adiprene (trademark) Electra aircraft diffusion waves ... Buna (trademark) Lockheed aircraft Doppler effect silicone rubber . Electra aircraft elastodynamics .... RTV-40 rubber (trademark) monoplanes elastohydrodynamics . RTV-60 rubber (trademark) . Electra aircraft . . . Viton rubber (trademark) Lame wave equations passenger aircraft longitudinal waves . . . vulcanized elastomers Electra aircraft . . . . RTV-40 rubber (trademark) magnetohydrodynamic stability transport aircraft . . . . RTV-60 rubber (trademark) plane waves Electra aircraft polarized radiation . . chloroprene resins RT ∞ aircraft pressure latex pulsed radiation organic materials electrets ∞ radiation plastics capacitors

polymers

solithanes

sponges (materials)

radiation distribution

radiation pressure

rarefaction

Curie temperature

dielectrics.

dielectric polarization

electric energy storage electrodes . . conducting polymers electric fields electrolytes . . electric wire energy storage electrolytic cells  $RT \, \infty \, conduction$ magnets electromotive forces dielectrics polarization (charge separation) ∞ energy sources eddy currents electrical insulation energy storage nonaqueous electrolytes electrical resistivity electric aircraft USE fly by wire control ∞ power supplies electrostatic shielding pulse charging insulators electric appliances radioisotope batteries resistors USE electric equipment roadway powered vehicles semiconductors (materials) space station power supplies Sommerfeld waves electric arcs spacecraft power supplies thermal conductors (1) a luminous discharge of electricity voltage converters (DC to DC) transmission lines through a gas. (2) A prolonged electrical diselectric connectors charge or series of prolonged discharges beelectric bridges tween two electrodes with no physical contact GS circuits DEF Connecting devices, ordinarialy debetween them. . electric bridges signed for use in a fixed location to which a wire GS electric current or wies of a circuit may be attached and that are . . wire bridge circuits . electric discharges . Wheatstone bridges arranged for the insertion of a plug. Used fojacks .. electric arcs RT ∞ bridges (electrical). . . . carbon arcs capacitors UF connectors (electric) . . . mercury arcs electrical measurement jacks (electrical) RT arc chambers measuring instruments GS connectors arc discharges solid state devices electric connectors arc generators beam leads ∞ arcs ∞ electric cells circuits coronas (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS disconnect devices electrical faults electric terminals LISTED BELOW) amplifiers flashover flat conductors gas discharges ∞ jacks direct power generators glow discharges optical interconnects electric batteries ionization switches electric generators light sources electrochemical cells lightning electric contacts electrolytic cells magnetohydrodynamics UF contacts (electric) fission electric cells RT planotrons brushes fuel cells plasma generators brushes (electrical contacts) Kerr cells plasmas (physics) commutators lead acid batteries contact potentials Saha equations lithium sulfur batteries short circuits contact resistance nonaqueous electrolytes dropouts photoelectric cells electric automobiles flat conductors sodium sulfur batteries GS surface vehicles ∞ relay solar cells . motor vehicles wet cells . . automobiles sliding friction ... electric automobiles switches electric charge . . electric motor vehicles GS electric charge . . electric automobiles electric control . electric dipoles RT transportation UF electrohydraulic control . . orbiting dipoles RT automatic control electrostatic charge electric batteries ∞ control ion charge (INCLUDES BOTH RECHARGEABLE OR STORAGE BATTERIES AND NON-RECHARGEABLE BATTERIES FOR GENERATING CURRENT FROM A STORED CHEMICAL ENERGY SOURCE) control equipment space charge traveling charge control systems design capacitance electronic control RT engine control UF batteries numerical control  $\infty$  dipoles GS electrochemical cells optical control electrical properties . electric batteries remote control electrometers . . nickel iron batteries solenoid valves polarity . . primary batteries voltage controlled oscillators polarization (charge separation) . . . alkaline batteries pulse charging . . . dry cells electric corona SCATHA satellite . . . . magnesium cells DEF A luminous, and often audible, electric . . . . nickel zinc batteries discharge that is intermediate in nature between electric choppers . . . metal air batteries a spark discharge (with, usually, its single dis-(DEVICES FOR CONVERTING DC TO AC) SN . zinc-oxygen batteries UF charge channel) and a non point discharge (with choppers (electric) . . . sodium sulfur batteries its diffuse, quiescent, nonluminous character). amplifiers RT . thermal batteries Used for corona discharges. mechanical oscillators . . Redox cells corona discharges . . storage batteries GS electric circuits coronas . . . lead acid batteries . electric corona USE circuits ... nickel cadmium batteries electric current . . . nickel hydrogen batteries electric coils . electric discharges . . . nickel zinc batteries GS electric coils . electric corona ... silver cadmium batteries . magnetic coils atmospheric electricity . . . silver hydrogen batteries . . field coils electrohydrodynamics . . . silver zinc batteries glow discharges . . magnet coils . . . zinc-bromide batteries RT chokes ionization ... zinc-chlorine batteries solar corona ∞ coils static electricity . . lithium batteries ignition systems . . wet cells impedance . . lithium sulfur batteries magnetic cores electric current auxiliary power sources amperage transformers battery chargers electroseismic effect charge efficiency electric conductors Hall currents

chemical auxiliary power units

direct power generators
∞ electric cells

∞ electric power

UF

GS

electrical leads

. . beam leads

. electric conductors

conductors

photocurrents

electric current

. beam currents

. alternating current

| . Brillouin flow  |   | . carbon arcs  |   | constitutive equations   |
|---|---|--|---|--|
| . direct current  |   | . mercury arcs   |   | Coulomb potential  |
| . eddy currents   |   | electric corona  |   | crossed fields   |
| . electric discharges   |   | electric sparks  |   | crystal field theory   |
| arc discharges  |   | electrodeless discharges   |   | dielectric polarization  |
| electric arcs   |   | flashover  |   | electrets  |
| carbon arcs   |   | glow discharges  |   | electrodynamics  |
|   |   |  |   |  |
| mercury arcs  |   | lightning  |   | electromagnetism   |
| electric corona   |   | . ball lightning   |   | electromechanics   |
| electric sparks   |   | . cloud-to-cloud discharges  |   | electrostatic charge   |
| electrodeless discharges  |   | . cloud-to-ground discharges   |   | electrostatics   |
| flashover   |   | intracloud discharges  |   | external surface currents  |
| glow discharges   |   | . leaders (meteorology)  |   | field emission   |
| lightning   |   | stepped leaders  |   | field strength   |
| ball lightning  |   | multipactor discharges   |   | ∘ fields   |
|   |   |  | 0   |  |
| cloud-to-cloud discharges   |   | Penning discharge  |   | Lienard potential  |
| cloud-to-ground discharges  |   | radio frequency discharge  |   | magnetic fields  |
| intracloud discharges   |   | Saint Elmo fire  |   | Pedersen currents  |
| leaders (meteorology)   |   | Townsend discharge   |   | permittivity   |
| stepped leaders   |   | . gas discharges   |   | polarity   |
| multipactor discharges  |   | toroidal discharge   |   | spacecraft charging  |
| Penning discharge   |   | ring discharge   |   | spark gaps   |
|   |   |  |   |  |
| radio frequency discharge   |   | valanches  |   | Stark effect   |
| Saint Elmo fire   |   | oronas   |   | static electricity   |
| Townsend discharge  | ∞ di  | scharge  |   |  |
| gas discharges  | dı  | ioplasmatrons  | electric  | filters  |
| toroidal discharge  | el  | ectron emission  | GS  | electromagnetic wave filters   |
| ring discharge  |   | ectrostatic charge   |   | . electric filters   |
| . external surface currents   | ∞ fla   | •  |   | bandstop filters   |
|   |   |  |   | crystal filters  |
| . field aligned currents  |   | nization   |   | •  |
| Birkeland currents  |   | htning suppression   |   | digital filters  |
| . high current  | M   | olniya satellites  |   | FIR filters  |
| . ionospheric currents  | pl  | asma currents  |   | IIR filters  |
| Birkeland currents  |   | pace charge  |   | microwave filters  |
| electrojets   |   | ener effect  |   | radar filters  |
| ,   | 20  | sher effect  |   | radio filters  |
| auroral electrojets   | -14-!   |  |   | and the second s |
| equatorial electrojet   |   | ergy storage   |   | tracking filters   |
| Pedersen currents   | GS er   | nergy storage  |   | waveguide filters  |
| . critical current  | . 6   | electric energy storage  | RT  | adaptive filters   |
| . dark current  | RT ca   | pacitors   |   | bandpass filters   |
| . line current  |   | rect power generators  |   | capacitors   |
|   |   | ectrets  |   | circuits   |
| . low currents  |   |  |   |  |
| . plasma currents   |   | ectrochemical capacitors   |   | electronic filters   |
| . ring currents   | in  | ductors  | ٥   | ∘ filters  |
| . short circuit currents  | po  | otential energy  |   | high pass filters  |
| . telluric currents   | ·   | •  |   | infrared filters   |
|   | ∞ electric ed   | uinment  |   | Kalman filters   |
| . threshold currents  |   | ISE OF A MORE SPECIFIC TERM IS   |   |  |
| RT ammeters   |   | ECOMMENDEDCONSULT THE TERMS  |   | linear filters   |
| circuits  |   | STED BELOW)  |   | low pass filters   |
| Circuits  | 1.19  |  |   |  |
|   |   |  |   | nonlinear filters  |
| current converters (AC to DC)   | UF el   | ectric appliances  |   |  |
| current converters (AC to DC) current density   | UF <i>el</i><br>RT ai   | ectric appliances<br>rborne equipment  |   | optical filters  |
| current converters (AC to DC)<br>current density<br>current regulators  | UF <i>ei</i><br>RT ai<br>ci   | ectric appliances<br>rborne equipment<br>rcuits  |   | optical filters<br>RC circuits   |
| current converters (AC to DC)<br>current density<br>current regulators<br>current sheets  | UF <i>ei</i><br>RT ai<br>ci   | ectric appliances<br>rborne equipment  |   | optical filters<br>RC circuits<br>receivers  |
| current converters (AC to DC) current density current regulators current sheets ∞ currents  | UF <i>el</i><br>RT ai<br>ci<br>cu   | ectric appliances<br>rborne equipment<br>rcuits  |   | optical filters<br>RC circuits<br>receivers<br>reduced order filters   |
| current converters (AC to DC)<br>current density<br>current regulators<br>current sheets  | UF <i>el</i><br>RT ai<br>ci<br>cu<br>el   | ectric appliances<br>rborne equipment<br>rcuits<br>ırrent regulators   |   | optical filters<br>RC circuits<br>receivers<br>reduced order filters<br>resistors  |
| current converters (AC to DC) current density current regulators current sheets ∞ currents  | UF e/<br>RT ai<br>ci<br>cu<br>el<br>el  | ectric appliances rborne equipment rcuits urrent regulators ectric generators ectric power transmission  |   | optical filters<br>RC circuits<br>receivers<br>reduced order filters   |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity  | UF e/<br>RT ai<br>ci<br>cu<br>el<br>el<br>el  | ectric appliances rborne equipment rcuits irrent regulators ectric generators ectric power transmission ectricity  |   | optical filters<br>RC circuits<br>receivers<br>reduced order filters<br>resistors  |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity electricity  | UF e/<br>RT ai<br>ci<br>cl<br>el<br>el<br>el  | ectric appliances rborne equipment rcuits  irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices   |   | optical filters<br>RC circuits<br>receivers<br>reduced order filters<br>resistors<br>transformers<br>tunable filters   |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity electricity high voltages  | UF e/<br>RT ai<br>ci<br>cu<br>el<br>el<br>el<br>el  | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment   |   | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters   |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity electricity high voltages hydroelectricity   | UF el<br>RT ai<br>ci<br>ct<br>el<br>el<br>el<br>el  | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectromic equipment eating equipment  |   | optical filters<br>RC circuits<br>receivers<br>reduced order filters<br>resistors<br>transformers<br>tunable filters   |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC)  | UF e/<br>RT ai<br>ci<br>ct<br>el<br>el<br>el<br>el<br>h   | ectric appliances rborne equipment rcuits urrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment emopolar generators  | alactric  | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  |
| current converters (AC to DC) current density current regulators current sheets currents electric power electricial resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks   | UF e/<br>RT ai<br>ci<br>ct<br>el<br>el<br>el<br>el<br>h   | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectromic equipment eating equipment  |   | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting   | UF e/<br>RT ai<br>ci<br>cl<br>el<br>el<br>el<br>el<br>h   | ectric appliances rborne equipment rcuits urrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment emopolar generators  | DEF   | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from  |
| current converters (AC to DC) current density current regulators current sheets currents electric power electricial resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks   | UF e/<br>RT ai<br>ci<br>ct<br>el<br>el<br>el<br>el<br>ht<br>ht<br>lig   | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment binopolar generators ihting equipment gistics  | DEF<br>electrica                                      | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through  |
| current converters (AC to DC) current density current regulators current sheets ∞ currents ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting   | UF el<br>RT ai<br>ci<br>cl<br>el<br>el<br>el<br>he<br>hc<br>hc  | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment omopolar generators initing equipment gistics iniature electronic equipment  | DEF<br>electrica<br>resistan                          | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through the heating. Materials research and  |
| current converters (AC to DC) current density current regulators current sheets  ∞ currents  ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting Lienard potential low conductivity  | UF e/<br>RT ai<br>ci<br>cl<br>el<br>el<br>he<br>he<br>he<br>he<br>m   | ectric appliances rborne equipment rcuits urrent regulators ectric generators ectricity ectricity ectronic equipment eating equipment eating equipment eating equipment gistics iniature electronic equipment otors  | DEF<br>electrica<br>resistan<br>space p               | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through the heating. Materials research and processing are research uses.  |
| current converters (AC to DC) current density current regulators current sheets currents electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting Lienard potential low conductivity micromilliammeters   | UF e/<br>RT ai<br>ci<br>cl<br>el<br>el<br>el<br>ho<br>ho<br>lig<br>lo<br>m<br>m   | ectric appliances rborne equipment rcuits rurrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectromechanical devices ectronic equipment parting equipment propolar generators thing equipment gistics initiature electronic equipment otors blenoid valves   | DEF<br>electrica<br>resistan<br>space p               | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through the heating. Materials research and  |
| current converters (AC to DC) current density current regulators current sheets currents electric power electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting Lienard potential low conductivity micromilliammeters Ohms law   | UF e/RT ai ci<br>ci<br>cl<br>el<br>el<br>el<br>he<br>he<br>he<br>lig<br>lo<br>m   | ectric appliances rborne equipment rocuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment omopolar generators initiative electronic equipment gistics initiative electronic equipment otors elenoid valves ilities  | DEF<br>electrica<br>resistan<br>space p               | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from all energy, generally achieved through the heating. Materials research and processing are research uses. heating equipment   |
| current converters (AC to DC) current density current regulators current sheets  ∞ currents  ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting Lienard potential low conductivity micromilliammeters Ohms law power conditioning   | UF e/RT ai ci cc cc cc el   | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment eating equipment gistics iniature electronic equipment otors belenoid valves lilities bitage converters (AC to AC)   | DEF<br>electrica<br>resistan<br>space p               | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through ice heating. Materials research and orderssing are research uses. heating equipment furnaces   |
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| current converters (AC to DC) current density current regulators current sheets  ∞ currents  ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting Lienard potential low conductivity micromilliammeters Ohms law power conditioning system generated electromagnetic pulses   | UF el<br>RT ai<br>ci<br>cl<br>el<br>el<br>he<br>he<br>he<br>nc<br>ut<br>vc  | ectric appliances rborne equipment rcuits Irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectronic equipment eating equipment eating equipment gistics iniature electronic equipment otors belenoid valves lilities oltage converters (AC to AC)   | DEF<br>electrica<br>resistan<br>space p<br>GS         | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through the heating. Materials research and processing are research uses. heating equipment furnaces leading equipment makes materials   |
| current converters (AC to DC) current density current regulators current sheets  ∞ currents  ∞ electric power electrical resistivity electricity high voltages hydroelectricity inverted converters (DC to AC) Kirchhoff law of networks levitation melting Lienard potential low conductivity micromilliammeters Ohms law power conditioning system generated electromagnetic  | UF el<br>RT ai<br>ci<br>cl<br>el<br>el<br>he<br>he<br>he<br>nc<br>ut<br>vc  | ectric appliances rborne equipment rcuits irrent regulators ectric generators ectric power transmission ectricity ectromechanical devices ectromic equipment eating equipment omopolar generators initiature electronic equipment otors elenoid valves elitities elitage converters (AC to AC) elitage converters (DC to DC)   | DEF<br>electrica<br>resistan<br>space p<br>GS         | optical filters RC circuits receivers reduced order filters resistors transformers tunable filters ultraviolet filters Wiener filtering  furnaces Furnaces whose heat is derived from al energy, generally achieved through the heating. Materials research and processing are research uses. heating equipment furnaces electric furnaces   |
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. . . hydrogen oxygen fuel cells windpowered generators ... molten carbonate fuel cells electric outlets . . . phosphoric acid fuel cells electric hybrid vehicles RT ∞ power transmission . . . regenerative fuel cells DEF Surface vehicles which utilize propul-. . . solid oxide fuel cells sion systems of both electric motors and conelectric potential . . magnetohydrodynamic generators ventional internal combustion engines. In electrostatics, the work done in mov-. . photoelectric generators surface vehicles ing unit positive charge from infinity to the point . electric hybrid vehicles ... photovoltaic cells whose potential is being specified. Used for . . . . solar cells automobiles voltage. UF internal combustion engines .... vertical junction solar cells voltage ∞ rotating electrical machines potential energy . . primary batteries GS ∞ vehicles electric potential . alkaline batteries ... dry cells . . bioelectric potential . contact potentials
. Coulomb potential
. high voltages . . . . magnesium cells electric ignition . . . nickel zinc batteries GS ignition . . . metal air batteries electric ignition . . . zinc-oxygen batteries . . Lienard potential igniters . . . sodium sulfur batteries ignition systems . . low voltage . . . thermal batteries spark ignition . . open circuit voltage . . radioisotope batteries squibs . . photovoltages ... SNAP 7 starting . . quantum wells SNAP 9A ... photoexcitation ... SNAP 11 spike potentials electric impulses SNAP 13 . threshold voltage USE electric pulses . . . SNAP 15 Barritt diodes SNAP 17 ... SNAP 19 electric moments capacitance-voltage characteristics SNAP 21 GS electrical properties electromotive forces . electric moments ... SNAP 23 Gibbs-Helmholtz equations SNAP 27 moments ionization potentials . dipole moments . SNAP 29 Kirchhoff law of networks electric moments . . thermionic converters overvoltage magnetic moments SNAP 13 ∞ potential solar blankets polarization (charge separation) potentiometers (instruments) . . thermoelectric generators power conditioning SNAP 3 SNAP 7 static electricity electric motor vehicles transconductance GS surface vehicles . . . SNAP 9A volt-ampere characteristics . motor vehicles SNAP 10A . . electric motor vehicles ∞ electric power SNAP 11 . . electric automobiles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) electrical energy SNAP 15 SN automated transit vehicles ... SNAP 17 automobiles SNAP 19 crawler tractors ... SNAP 21 research vehicles auxiliary power sources SNAP 23 roadway powered vehicles electric batteries ... SNAP 27 test vehicles electric current ... SNAP 29 tractors electric power plants . . . solar sea power plants trucks electric propulsion . rotating generators ∞ vehicles electrical properties . . amplidynes electricity dynamometers electrification electric motors . . homopolar generators geothermal energy utilization GS electromechanical devices . . turbogenerators hydroelectricity . electric motors . . . ASTEC solar turboelectric induction motors . . asynchronous motors generator Poynting theorem tokamak devices induction motors . solar generators . . solar auxiliary power units . . . ASTEC solar turboelectric . . micromotors turbogenerators . . piezoelectric motors utilities . . stepping motors generator . . solar cells voltage converters (AC to AC) synchronous motors . . torque motors voltage converters (DC to DC) ... vertical junction solar cells motors solar dynamic power systems electric power conversion . electric motors RT aircraft power supplies electric generators USE asynchronous motors arc generators induction motors armatures electric power plants . . micromotors auxiliary power sources electric power plants piezoelectric motors brushes . fuel cell power plants . . stepping motors brushes (electrical contacts) . nuclear power plants synchronous motors closed cycles . . Enrico Fermi atomic power plant torque motors cogeneration Hallam Nuclear Power Facility RT amplidynes combined cycle power generation . . ML-1 nuclear power plant armatures ∞ conversion solar thermal electric power plants brushes ∞ converters RT cogeneration brushes (electrical contacts) ∞ electric cells combined cycle power generation circuits ∞ electric equipment ∞ electric power commutators electrical engineering electrical engineering decommutators electromotive forces ∞ facilities power factor controllers ∞ energy sources flue gases rotating electrical machines ∞ generators fly ash servomechanisms hydroelectric power stations integrated energy systems nuclear electric power generation servomotors ∞ power stators power conditioning Modular Integrated Utility System transformers ∞ power supplies ∞ power plants SNAP solar sea power plants solar ponds (heat storage) electric networks static inverters electric power supplies GS networks GS electric power supplies
. aircraft power supplies

electric networks impedance matching

sneak circuit analysis

RT

voltage controlled oscillators

. solar dynamic power systems

thermonuclear power generation

windmills (windpowered machines)

tide powered generators

. space station power supplies RT armatures ... electroslag welding . spacecraft power supplies circuit breakers . flash welding auxiliary power sources RT electron beam welding disconnect devices compulsators interruption pressure welding induction motors spot welds ∞ relay selectors welding machines line current payload delivery (STS) solenoid valves ∞ power supplies solenoids electric wire switching circuits UF electric wiring electric power transmission GS conductors time lag transmission . electric conductors electric power transmission electric rocket engines . electric wire RT circuit protection GS engines wire circuits electric wire . rocket engines  $\infty$  conduction . . electric rocket engines bus conductors ∞ electric equipment ... electrostatic engines circuits electrical engineering . . . . ion engines communication cables electrification . cesium engines electrical insulation hydroelectric power stations . . . . . Hall thrusters exploding wires poles (supports) . . . . . mercury ion engines flat conductors power lines . . . . . RIT engines power lines . . . electrothermal engines transmission lines superconducting power transmission . . . . arc jet engines wire bridge circuits transmission circuits . pulsed jet engines transmission lines . . . . resistojet engines electric wiring
USE electric wire transmission loss . . . plasma engines underground transmission lines . . . . magnetoplasmadynamic wiring thrusters electric propulsion . . . . pulsed inductive thrusters electrical breakdown (EXCLUDES PROPULSION USING ELECTRIC MOTORS AS PRIME MOVERS) A general term encompassing all the USE electrical faults . . . . pulsed plasma thrusters . . . . two stage plasma engines . . . . VASIMR (propulsion system) electrical conductivity various types of propulsion in which the propel-USE electrical resistivity RT magnetic nozzles lant consists of charged electrical particles microrocket engines which are accelerated by electrical or magnetic electrical conductivity meters restartable rocket engines fields, or both; for example, electrostatic propul-GS measuring instruments SERT 1 spacecraft sion, electromagnetic propulsion, and electro-. conductivity meters SERT 2 spacecraft thermal propulsion. . electrical conductivity meters space electric rocket tests propulsion ohmmeters sustainer rocket engines electric propulsion Vernier engines . . electromagnetic propulsion electrical energy . . . magnetic sails USE electric power electric sparks . . electrostatic propulsion UF spark discharges . . . ion propulsion electrical engineering electric current . . laser propulsion DEF Branch of engineering related to the electric discharges . . plasma propulsion design, development, and operation of electrical . electric sparks . solar electric propulsion devices and systems. sparks RT arc jet engines RT electric generators electric sparks ∞ electric power electric power plants flashover Hall thrusters electric power transmission gas discharges low thrust propulsion ∞ electronics ionization marine propulsion ∞ engineering lightning nuclear electric propulsion ∞ power transmission spark chambers plasma power sources systems engineering spark gaps RIFT (reactor in flight test) transmission lines spark ignition SERT 1 spacecraft turbogenerators spark plugs SERT 2 spacecraft static electricity space station propulsion electrical faults spacecraft propulsion electrical breakdown electric stimuli UF two stage plasma engines voltage breakdown electrical faults RT ∞ stimuli underwater propulsion GS electric switches short circuits electric pulses  $RT \, \infty \, breakdown$ GS switches electric impulses UF circuit protection . electric switches GS pulses electric arcs . . cryotrons electric pulses . . stepping switches failure electromagnetic missiles electromagnetic pulses . . thermostats ∞ faults flashover . vacuum arc switches pulse amplitude sneak circuit analysis contactors pulse duration spark gaps cryostats pulse generators current regulators pulse modulation electrical grounding dropouts pulse rate RT circuit protection electronic control signals circuits pressure switches system generated electromagnetic noise reduction solenoid valves pulses transformers switching circuits voltage regulators electric reactors electrical impedance GS electric reactors electric terminals admittance saturable reactors immittance RT electric connectors capacitors network analysis electrical properties circuit protection electrical impedance ∞ terminals ∞ reactors . . electrical resistance resistors . . . contact resistance electric welding transformers . . . Hall resistance GS welding . fusion welding . . . skin resistance

electric welding

. . . . gas tungsten arc welding

. . . . plasma arc welding

. . . arc welding

electric relays

REPEATERS)

. electric relavs

switches

SN

GS

(EXCLUDES COMMUNICATION SYSTEM

. . . transconductance

. electrical impedance

. reactance

impedance

. . electrical resistance . . . contact resistance . . . Hall resistance . . . skin resistance . . . transconductance . reactance capacitance impedance matching

impedance measurement inductance

latch-up ohmmeters Smith chart

#### electrical insulation

DEF A material of relatively low electrical conductivity and high dielectric strength, usually used to support or provide electrical separation for conductors, in which a voltage applied between two points on or within the material produces a small and sometimesnegligible current.

nonconductors GS

insulation

. electrical insulation

RT asbestos circuit protection dielectrics electric conductors electric wire excitons

 insulated structures insulators wiring

electrical leads

USE electric conductors

## electrical measurement

(MEASUREMENT OF ELECTRICAL PROPERTIES, QUANTITIES, OR CONDITIONS) HE

voltage measurement GS

electrical measurement . coulometry

. polarography ammeters bolometers coulometers

electric bridges electric equipment tests

electromagnetic measurement

electrometers

electronic equipment tests

flowmeters

impedance measurement

magnetometers

∞ measurement measuring instruments

micromilliammeters mismatch (electrical)

ohmmeters oscillographs

potentiometers (instruments)

wattmeters

### electrical properties

Bardeen approximation electrical properties

. antiferroelectricity

. capacitance . capacitance-voltage characteristics

. carrier mobility

. . electron mobility

. . hole mobility

. charge distribution

. dielectric properties

. . dielectric loss

. . permittivity

. electric moments

. electrical impedance

electrical resistance

. . . contact resistance

. . . Hall resistance

. . . skin resistance

. . . transconductance

. . reactance

. electrical resistivity

. . ionospheric conductivity

. . magnetoresistivity

. . photoconductivity

. . plasma conductivity

. . superconductivity

. . . Kondo effect

electrostriction . ferroelectricity

. inductance

. . proximity effect (electricity)

. photovoltaic effect

. piezoelectricity

. pyroelectricity RT ∞ conductivity

crystal oscillators diamagnetism dipole moments

domains

eddy currents electric charge

∞ electric power

electricity

electromagnetic properties field strength

hysteresis impedance magnetic properties open circuit voltage optical properties photoelectric emission photoelectricity

∞ physical properties

∞ properties quality control

∞ resistance

∞ solid state physics standing wave ratios

#### electrical resistance

GS electrical properties

. electrical impedance

electrical resistance

. . . contact resistance

. . . Hall resistance ... skin resistance

. . . transconductance

impedance

. electrical impedance

... electrical resistance

... contact resistance

Hall resistance

... skin resistance . transconductance

galvanic skin response

∞ high resistance

linear circuits

∞ low resistance

Manganin (trademark)

ohmmeters

Ohms law RC circuits

reactance

∞ resistance

RL circuits

RLC circuits

## electrical resistivity

GS

A factor such that the conductioncurrent density is equal to the electric field in the

material divided by resistivity. electrical conductivity electroconductivity

resistivity

electrical properties electrical resistivity

. . ionospheric conductivity

. . magnetoresistivity

. . photoconductivity

. . plasma conductivity

. . superconductivity

. Kondo effect

transport properties

electrical resistivity

. . ionospheric conductivity . magnetoresistivity

. . photoconductivity

plasma conductivity

. . superconductivity . Kondo effect

air conductivity

atmospheric conductivity carrier mobility

∞ conductivity electric conductors electric current

electromigration Hall resistance

high temperature superconductors

low conductivity open circuit voltage plasma currents ∞ resistance

electrically suspended gyroscopes

USE electrostatic gyroscopes

#### electricity

#### GS electricity

. alternating current

. atmospheric electricity

. . ionospheric currents . . . Birkeland currents

. . . electrojets

. . . . auroral electrojets

. . . . equatorial electrojet

... Pedersen currents

. geoelectricity

. . telluric currents . hydroelectricity

static electricity

RT electric current

∞ electric equipment

∞ electric power electrical properties electromagnetism

∞ electronics lightning

Maxwell equation Ohms law

photoelectricity

piezoelectricity proximity effect (electricity)

## electrification

 $RT \, {\it \infty} \, electric \, power \,$ 

electric power transmission

∞ power transmission transmission lines

electroacoustic transducers DEF Transducers for receiving waves from an electric system and delivering waves to an acoustic system, or vice versa. Microphones

and earphones are electroacoustic transducers.

GS transducers

. sound transducers

.. electroacoustic transducers

. . . hydrophones . . . loudspeakers

. . microphones

electroacoustics interdigital transducers surface acoustic wave devices

electroacoustic waves GS elastic waves

. sound waves

. . electroacoustic waves

electroacoustics electromagnetic radiation plasma waves

pressure sensors wave interaction ∞ waves

electroacoustics GS acoustics

. electroacoustics

electroacoustic transducers electroacoustic waves sound transducers

surface acoustic wave devices

ultrasonic wave transducers

# ultrasonics

electroactive polymers (added June 2000)

EAP (polymers)

actuators RT

conducting polymers electromechanical devices electrorheological fluids

electrostriction photovoltaic cells thin films microelectromechanical systems electrode materials polymers electrochemical corrosion robot arms RT anions corrosion anodes . electrochemical corrosion anodic coatings electroanesthesia electrodissolution cathodes GS anesthesia electrolysis electroanesthesia metal-water reactions cathodic coatings cell anodes electronarcosis cell cathodes electrochemical machining electrodes electrocardiograms electrolytic grinding mischmetal USE electrocardiography machining photocathodes chemical machining photoelectric cells electrocardiography electrochemical machining photoelectric materials electrocardiograms electropolishing photoelectrochemical devices bioengineering polypyrroles . biometrics electrochemical oxidation tube anodes GS chemical reactions . . cardiography electrocardiography . oxidation electrodeless discharges ballistocardiography . electrochemical oxidation GS electric current body measurement (biology) . electric discharges electrophysiology electrochemical synthesis . electrodeless discharges heart diséases (added January 2000) RT ∞ discharge medical electronics A chemical synthesis reaction that is gas discharges muscles induced by an electric current. glow discharges phonocardiography electrosynthesis lightning vectorcardiography GS synthesis (chemistry) Penning discharge electrochemical synthesis radio frequency discharge electrocatalysts electrochemistry ring discharge fuel cell catalysts electrolysis toroidal discharge GS catalysts polymerization Townsend discharge electrocatalysts fuel cells electrochemistry electrodeposition The branch of science and technology GS deposition electrochemical capacitors which deals with transformations between . electrodeposition (added September 2003) chemical and electrical energy. electroplating DEF Devices that store energy in the electric field of an electrochemical double-layer. GS electrochemistry cathodic coatings cell cathodes . electrolysis double-layer capacitors . . coulometry coulometers supercapacitors . photoelectrochemistry electrochemistry ultracapacitors RT ∞ chemistry electroformina GS capacitors corrosion electroless deposition electrochemical capacitors coulometers electrolysis electrolytes electric energy storage electrochemical cells electrochemical synthesis electrolytic cells electrochemical cells electrochromism electrophoresis Electrochemical systems consisting of electrodeposition electrowinning metal matrix composites an anode and a cathode in metallic contact and electrodes immersed in an electrolyte. (The anode and electrodissolution metal powder cathode may be different metals or dissimilar electrolytes plating areas on the same metal surface). electrolytic cells powder metallurgy GS electrochemical cells electrophysics reduction (chemistry) . electric batteries fuel cells . . nickel iron batteries glass electrodes electrodermal response . . primary batteries . . . alkaline batteries nonaqueous electrolytes USE galvanic skin response oxidation-reduction reactions ... dry cells Redox cells electrodes . . . . magnesium cells Terminals at which electricity passes from one medium into another. The positive electrodes are called the anodes; the negative . nickel zinc batteries electrochromism . . . metal air batteries A phenomenon whereby a select num-. zinc-oxygen batteries electrodes are called the cathodes. In semiconber of solid materials will change color when an ... sodium sulfur batteries ductor devices, elements that perform one or electric field is applied. . thermal batteries more of the functions of emitting or collecting RT chromophores electrons or holes, or of controlling their move-. . Redox cells color ments by electric fields. In electron tubes, con-. . storage batteries display devices . lead acid batteries ducting elements that perform one or more of electrochemistry . . . nickel cadmium batteries the functions of emitting, collecting, or controlelectro-optics . nickel hydrogen batteries ling by electromagnetic fields, the movements of thin films . . . nickel zinc batteries electrons or ions. . silver cadmium batteries GS electrodes electroconductivity ... silver hydrogen batteries . anodes USE electrical resistivity . . . silver zinc batteries . . cell anodes . . . zinc-bromide batteries . . shell anodes electrocutaneous communication zinc-chlorine batteries . tube anodes communicating .. lithium batteries . cathodes electrocutaneous communication . . wet cells . . cell cathodes perception . . . lithium sulfur batteries . . hollow cathodes sensory perception , fuel cells . . tube cathodes touch ... cold cathodes . . biochemical fuel cells . . hydrogen oxygen fuel cells ... hot cathodes electrode dark current ... photocathodes . . molten carbonate fuel cells (added October 1997) phosphoric acid fuel cells thermionic cathodes USE dark current . . regenerative fuel cells . tunnel cathodes . solid oxide fuel cells . diffusion electrodes RT ∞ cells electrode film barriers . dynodes glass electrodes ∞ electric cells RT ∞ barriers

electrodes

polarization (charge separation)

∞ films

electrochemistry

photoelectric cells

photoelectrochemical devices

implanted electrodes (biology)

. ion selective electrodes

. plasma electrodes

. solid electrodes electrodeposition . . luminescence tube grids electroless deposition . electroluminescence cold cathode tubes electroplating electro-optics electric batteries spark machining light emitting diodes electrochemistry light sources electrogenerators electrode film barriers porous silicon electrode materials USE electric generators electrolysis electroluminescent lamps electroplating electrohydraulic control USE electroluminescence electrorefining USE electric control **luminaires** hydraulic control electrowinning electrolysis graphite The production of chemical changes photomultiplier tubes electrohydraulic forming DFF forming techniques phototubes . Tafel law cold working electrochemistry . electrohydraulic forming . electrolysis transconductance explosive forming . . coulometry electrodialysis metal working RT corrosion coulometers GS dialysis electrohydrodynamics cracking (chemical engineering) . electrodialysis GS electrodynamics current density RT colloids electrohydrodynamics decomposition hydrometallurgy fluid mechanics electrochemical corrosion ∞ separation . fluid dynamics electrochemical synthesis . . hydrodynamics electrodeposition electrodissolution . electrohydrodynamics electrodes dissociation electrochemical corrosion . hydromechanics electrodissolution electrochemistry . . hydrodynamics electrolytes . . electrohydrodynamics electrolytic cells electrolysis electric corona electroplating electrokinetics hydrogen production electrodynamics DEF The science dealing with the forces and energy transformations of electric currents electron gas ionic mobility electron mobility metathesis and the magnetic fields associated with them. ion distribution passivity GS electrodynamics ionic mobility photolysis . electrohydrodynamics magnetohydrodynamics reduction (chemistry) . electromechanics Tafel law water splitting quantum electrodynamics electrojets RT Born-Infeld theory DEF Laterally limited, relatively intense electric currents located in the ionosphere. electrolyte metabolism ∞ dynamics electric fields GS electric current metabolism electromagnetic interactions electromechanical devices . ionospheric currents . electrolyte metabolism aerospace medicine electrojets auroral electrojets aldosterone line current Maxwell equation . . equatorial electrojet blood plasma body fluids physiological effects electricity ponderomotive forces . atmospheric electricity traveling charge . . ionospheric currents . . . electrojets potassium electrodynamometers sodium . . . auroral electrojets USE dynamometers weightlessness .... equatorial electrojet Birkeland currents Earth ionosphere electroencephalogram electrolytes electroencephalography GS conductors USE geomagnetism . electrolytes ionospheric conductivity electroencephalography . . anolytes EEG (electroencephalograms) electroencephalogram ionospheric drift . . catholytes UF . . ion exchange membrane ring currents GS bioengineering electrolytes . biometrics electrokinetics . . jumpers . electroencephalography GS kinetics .. molten salt electrolytes electrokinetics RT arousal . . nonaqueous electrolytes body measurement (biology) electrohydrodynamics . . solid electrolytes electromagnetic fields brain conducting fluids electrophysiology electromechanics Debye-Huckel theory medical electronics electrophysics electric batteries medical equipment electrochemistry electroless deposition electrodeposition electroepitaxy Controlled autocatalytic reduction electrolysis Crystal growth process achieved by method of depositing coatings. electrolytic cells passing an electric current through the substrate deposition electroplating GS solution. electroless deposition electrorefining GS growth coatings electrowinning . crystal growth electrodeposition fuel cells . . epitaxy electroforming ions . electroepitaxy metal coatings nonelectrolytes crystals plating vacuum deposition

hydrothermal crystal growth

liquid phases traveling solvent method

electroerosion

USE spark machining

electroexplosive devices initiators (explosives) USE

## electroforming

forming techniques GS

electroforming

RT deposition electroluminescence

DEF Emission of light caused by an application of electric fields to solids or gases. In gas electroluminescence, light is emitted when the kinetic energy of electron or ions accelerated in an electric field is transferred to the atoms or molecules of the gas in which the discharge takes place. Used for electroluminescent lamps.

electroluminescent lamps

vapor deposition

GS emission

light emission

by the passage of current through an electrolyte.

primary batteries Redox cells storage batteries wet cells

## electrolytic cells

Unit apparatus in which electrochemical reactions are produced by applying electrical energy, or which supply electrical energy as a result of chemical reactions and which include two or more electrodes and one or more electrolytes contained in a suitable vessel. Used for galvanic cells.

galvanic cells UF

RT ∞ cells

∞ diaphragms wave propagation metal working diaphragms (mechanics) diffusion electrodes electromagnetic interactions electromagnetic acceleration electric batteries electromagnetic interactions The use of perpendicular components ∞ electric cells . photoproduction of electric and magnetic fields to accelerate a electrochemistry . plasma-electromagnetic interaction current carrier. electrodeposition . laser plasma interactions  $RT \, \infty \, acceleration$ electrolysis biomagnetism electromagnetic interactions electrolytes electrodynamics magnetic fields electroplating electromagnetic acceleration mass drivers electrorefining electromagnetic coupling particle acceleration electrowinning electrostatics plasma accelerators ionic mobility electroweak interactions (field theory) electroweak model elementary particle interactions Feynman diagrams grand unified theory lead acid batteries electromagnetic compatibility nonaqueous electrolytes GS compatibility phosphoric acid fuel cells electromagnetic compatibility atmospherics electrolytic grinding ∞ interactions crosstalk USE electrochemical machining meson-meson interactions electronic countermeasures photonuclear reactions electronic warfare electrolytic polarization plasma resonance polarization (charge separation) ∞ interference quantum mechanics noise spectra electrolytic polarization unified field theory radio frequency interference depolarization wave interaction magnesium cells wave-particle interactions electromagnetic control electrolytic polishing electromagnets electromagnetic interference USE electropolishing remote control GS electromagnetic interference . crosstalk electromagnetic absorption electromagnetic coupling (added September 1988) . . ionospheric cross modulation ionospheric absorption light absorption . jamming coupling . radio frequency interference magnetic absorption electromagnetic coupling . . blackout (propagation) optical absorption . . . polar radio blackout . . microwave coupling energy absorption . . chirp optical coupling . radiation absorption . . . chirp signals electromagnetic interactions electromagnetic absorption . . electromagnetic noise laser plasma interactions . auroral absorption . . . atmospherics magnetosphere-ionosphere coupling . . . gamma ray absorption . . . . ionospherics plasma-electromagnetic interaction infrared absorption . . . . dawn chorus ... microwave absorption . . . . . hiss . multiphoton absorption electromagnetic deduction . . . . sudden enhancement of ... photoabsorption USE magnetic induction atmospherics ... polar cap absorption whistlers . . . ultraviolet absorption electromagnetic environment experiment . . . cosmic noise . . x ray absorption DEF Shuttleborne radio frequency experi-... ionospheric noise absorbers (materials) ment. . whistlers absorptance . . . shot noise ∞ absorption . Space Shuttle payloads ... white noise absorption spectra . electromagnetic environment . . . . thermal noise absorptivity experiment . . cochannel interference activation ionospheric cross modulation atmospheric attenuation  $RT \, \infty \, disturbances$ electromagnetic fields attenuation electromagnetic fields electronic countermeasures Beer law electronic warfare . far fields Bouquer law environments near fields Chandrasekhar equation feedback . system generated electromagnetic electromagnetic properties pulses Abrikosov theory ground effect (communications) excitation ∞ interference fading biomagnetism
blackout (propagation) interference immunity fluorescence noise reduction gamma ray absorptiometry SCATHA satellite electrokinetics irradiation electromagnetism electromechanics external surface currents signal to noise ratios laser induced fluorescence system generated electromagnetic light scattering pulses molecular absorption field mode theory Mossbauer effect electromagnetic measurement
SN (MEASUREMENT OF
ELECTROMAGNETIC PROPERTIES,
QUANTITIES OR CONDITIONS) field strength nuclear physics field theory (physics) opacity grand unified theory magnetic field configurations optical properties electromagnetic measurement optical reflection magnetic field inversions magnetic fields pair production electromagnetic noise measurement Barkhausen effect perfectly matched layers quantum electrodynamics photodecomposition Earth terminal measurement system reciprocity theorem photodissociation electrical measurement solar magnetic field photon absorptiometry electromagnetism Sommerfeld approximation photoproduction infrared detectors squeezed states (quantum theory) radar absorbers magnetic measurement stellar magnetic fields radar attenuation magnetic transducers

unified field theory

Yang-Mills fields

forming techniques

magnetic forming

magnetic coils

. electromagnetic hammers

whistlers

electromagnetic hammers

tools . hammers

GS

radiation shielding

radio attenuation

resonant frequencies signal fading solar energy absorbers Townsend avalanche

reflection

transmission

transmittance

transparence

wave attenuation

### electromagnetic missiles

(added January 1992)

electric pulses

∞ measurement

signal measurement

external surface currents missiles picosecond pulses pulse communication

pulse modulation

#### electromagnetic noise

wave attenuation wave degradation wave propagation electromagnetic noise radiation noise radio frequency noise electromagnetic interference . radio frequency interference . . electromagnetic noise ... atmospherics .... ionospherics . . . . . dawn chorus . . . . . hiss . . . . sudden enhancement of atmospherics . . . . whistlers ... cosmic noise ... ionospheric noise . whistlers ... shot noise ... white noise . . . thermal noise background noise background radiation blackout (propagation) channel noise chirp signals extraterrestrial radiation ground effect (communications) microwaves millimeter waves ∞ noise noise generators noise intensity noise reduction noise spectra noise storms noise temperature radar receivers ∞ radiation radio receivers radio spectra radio waves random noise signal to noise ratios solar radio emission squelch circuits submillimeter waves electromagnetic noise measurement electromagnetic measurement . electromagnetic noise measurement cosmic noise ∞ measurement thermal noise white noise electromagnetic propagation electromagnetic wave transmission electromagnetic properties electromagnetic properties
Faraday effect . inductance . proximity effect (electricity) Kerr magnetooptical effect . magnetoresistivity . optical properties absorptance ... absorptivity . . birefringence . Kerr electrooptical effect brightness . sky brightness brightness distribution . . color . iridescence . . . stellar color . water color . . dichroism luminosity . stellar luminosity opacity . . optical bistability optical reflection

. . radiance . . reflectance ... bidirectional reflectance . spectral reflectance . . refractivity . photorefractivity . . stigmatism . . translucence . . transmissivity . . transmittance . . transparence turbidity . photoelasticity . photoviscoelasticity carrier mobility clarity electrical properties electromagnetic absorption gamma ray absorption gyrotropism magnetic properties ∞ physical properties polarization (waves) ∞ properties electromagnetic propulsion GS propulsion . electric propulsion . . electromagnetic propulsion . . . magnetic sails . low thrust propulsion
. electromagnetic propulsion
. magnetic sails . spacecraft propulsion
. electromagnetic propulsion . . . magnetic sails electrostatic propulsion ion propulsion magnetoplasmadynamic thrusters mass drivers photonic propulsion plasma propulsion pulsed inductive thrusters pulsed plasma thrusters electromagnetic pulses

UF EMP (electromagnetism)

GS electromagnetic radiation
. electromagnetic pulses . . system generated electromagnetic pulses pulsed radiation . electromagnetic pulses . . system generated electromagnetic pulses pulses . electromagnetic pulses ... system generated electromagnetic pulses electric pulses external surface currents picosecond pulses pulse communication pulse modulation pulse radar radar transmission electromagnetic pumps (ENCOMPASSES DEVICES FOR MATERIALS HANDLING ONLY--EXCLUDES OPTICAL AND PARTICLE ENERGIZING DEVICES) GS pumps electromagnetic pumps fuel pumps electromagnetic radiation DEF Energy propagated through space or through material media in the form of an advancing disturbance in electric and magnetic fields existing in space or in media. The term radiation, alone, is used commonly for this type of energy, although it actually has a broader meaning. Used for electromagnetic waves and wave radiation. UF electromagnetic waves wave radiation

GS

**electromagnetic radiation** . bremsstrahlung

. coherent electromagnetic radiation

Cerenkov radiation

. . coherent light . . laser beams . diffraction radiation . electromagnetic pulses . . system generated electromagnetic pulses . electromagnetic surface waves . gamma ray beams . gamma rays . . gamma ray bursts . H waves . infrared radiation . . far infrared radiation near infrared radiation . kilometric waves . light (visible radiation) . . coherent light . . gegenschein . . polarized light . . sky radiation . . . airglow . geocoronal emissions . . . . nightglow . twilight glow . . dayglow elves . . . sprites (atmospheric physics) . . sunlight . . zodiacal light light beams . . laser beams . modulated continuous radiation . monochromatic radiation . nonequilibrium radiation . nonthermal radiation . . cyclotron radiation . ion cyclotron radiation . . synchrotron radiation . photon beams . planetary radiation . plasmons . polarized electromagnetic radiation . . polarized light . . synchrotron radiation . radio waves . . decametric waves . . extraterrestrial radio waves . . . galactic radio waves . North Polar Spur (astronomy) . . . radio bursts . . . . solar radio bursts . . . . . type 2 bursts . . . . type 3 bursts . . . . type 4 bursts . . . . type 5 bursts . . . solar radio emission . . . . solar radio bursts . . . . . type 2 bursts . . . . type 3 bursts . . . . . type 4 bursts . . . . . type 5 bursts . . . cosmic microwave background radiation . . long wave radiation . . radio emission . . . CN emission . . . hydroxyl emission . . . radio bursts . . . . solar radio bursts . . . . . type 2 bursts . . . . . type 3 bursts . . . . . type 4 bursts . . . . . type 5 bursts . . . solar radio emission . . . . solar radio bursts . . . . . type 2 bursts . . . . . type 3 bursts . . . . type 4 bursts . . . . type 5 bursts . . short wave radiation . . . microwaves . . . . centimeter waves . . . . cosmic microwave background radiation . . . . decimeter waves . . . . microwave emission . . . millimeter waves . . . submillimeter waves . . sky waves

. . phosphorescence . . photoconductivity

. . photoviscoelasticity

... whistlers

. Sommerfeld waves

. terrestrial radiation

thermal radiation

. . black body radiation

. . phonon beams

. tropospheric radiation

. ultraviolet radiation

. . extreme ultraviolet radiation

. . far ultraviolet radiation

. . . Lyman alpha radiation

. . . Lyman beta radiation

. . near ultraviolet radiation

. . ultraviolet emission

. x rays

. . cosmic x rays

. . solar x-rays

photosynthetically active radiation

aerospace environments

antennas

atmospheric radiation atmospheric refraction

backward waves

beams (radiation)

coherent radiation

continuous radiation corpuscular radiation

cosmic rays cylindrical waves

diffraction

Doppler effect

duochromators

electroacoustic waves

electromagnetism

extraterrestrial radiation

far fields flux (rate) flux density

galactic radiation

gamma ray absorption

gauge invariance

harmonic radiation incident radiation

incoherent scattering

interstellar radiation

ionizing radiation Kerr electrooptical effect

light emission

magneto-optics near fields

nonlinear optics

nuclear radiation

phase velocity

photons

Plancks constant polarized radiation

Poynting theorem

∞ propagation

propagation velocity pulsed radiation

radar

∞ radiation

radiation chemistry

radiation distribution radiation hazards

radiation laws

radiation pressure

radiation sources radiative transfer

∞ rays

reflected waves

reflection

refracted waves

Ronchi test scattering

sine waves solar radiation

solitary waves

spectral emission

spectral energy distribution

spherical waves spontaneous emission

Stefan-Boltzmann law

stellar radiation

stratosphere radiation

telecommunication Thomson scattering

transmission

transverse waves traveling waves

ultraviolet astronomy

VLF emission recorders

wave amplification wave dispersion

wave generation

whispering gallery modes white holes (astronomy)

electromagnetic rocket engines

(added April 2001)

USE plasma engines

#### electromagnetic scattering

GS scattering

. wave scattering

. . electromagnetic scattering

. . . ionospheric F-scatter propagation

. . . light scattering

. . . . halos

. . . microwave scattering

. . . Mie scattering . . . . Rayleigh scattering

Raman spectra Thomson scattering

. . . x ray scattering atmospheric attenuation

atmospheric attendation atmospheric scattering finite difference time domain method magnetic dispersion

optical coatings

perfectly matched layers reciprocity theorem

## electromagnetic shielding

shielding GS

## electromagnetic shielding

. radio frequency shielding

magnetic shielding radiation shielding

#### electromagnetic spectra

DEF Spectra of known electromagnetic radiations, extending from the shortest cosmic rays, through gamma rays, x rays, ultraviolet radiation, visible radiation, and including microwave and all other wavelengths of radio energy.

GS spectra

. radiation spectra

## . electromagnetic spectra

. . . gamma ray spectra . . . infrared spectra

. . . line spectra . . . Balmer series

... D lines
... electronic spectra
... Fraunhofer lines

. H lines

. H alpha line

. H beta line H gamma line

K lines

Lyman spectra

Paschen series

. . . . Rydberg series

telluric lines . radio spectra

. microwave spectra

Raman spectra stellar spectra

. . . . solar spectra UBV spectra

. . . ultraviolet spectra

vibrational spectra

. . . visible spectrum

. . x ray spectra absorption spectra

astronomical spectroscopy electronic warfare

emission spectra energy spectra

light (visible radiation) molecular spectra noise spectra spectral correlation

spectral reconnaissance

## electromagnetic surface waves

electromagnetic radiation

. electromagnetic surface waves

surface waves

. electromagnetic surface waves

dielectrics

propagation modes

radio waves

∞ surfaces

waveguides

∞ waves

## electromagnetic wave filters

## GS electromagnetic wave filters

. bandpass filters

. . crystal filters

. . tracking filters

. electric filters

. . bandstop filters

. . crystal filters

. . digital filters FIR filters

. . . IIR filters

. . microwave filters . . radar filters

. . radio filters

. . tracking filters

. . waveguide filters . matched filters

. optical filters
. . birefringent filters

. . infrared filters

. ultraviolet filters

absorbers (materials) adaptive filters

attenuators correlation detection

∞ filters

high pass filters linear filters low pass filters

nonlinear filters screen effect

electromagnetic wave transmission electromagnetic propagation

transmission

. electromagnetic wave transmission
. . light transmission

. . . light scattering

. . . . halos

. . microwave attenuation . . radar transmission . . radio transmission

. . . double sideband transmission

. . . ionospheric propagation . . . ionospheric F-scatter propagation

. . . microwave transmission

... multipath transmission short wave radio transmission

. . . single sideband transmission

. . . transhorizon radio propagation

spread spectrum transmission transequatorial propagation

. . scatter propagation
. . . ionospheric F-scatter propagation

. . television transmission

atmospheric attenuation

attenuation Fermat principle incoherent scattering lossy media

magnetoionics plasma decay plasmaguides

radar attenuation radio attenuation radome materials

screen effect transmission efficiency wave propagation

electromagnetism whispering gallery modes galvanometers GS avalanches potentiometers (instruments) electron avalanche electromagnetic waves CATT devices voltmeters USE electromagnetic radiation wattmeters channel multipliers free electrons electromagnetics electromigration gas discharges USE electromagnetism electrical resistivity Townsend avalanche electron mobility electromagnetism hole mobility electron beam welding Magnetism produced by an electric ionic mobility welding GS current. The science dealing with the physical relations between electricity and magnetism. polarization (charge separation) . fusion welding thermocapillary migration . electron beam welding Used for electromagnetics. thermomigration arc welding electromagnetics electric welding GS electromagnetism electromotive forces spiking magnetostatics Forces capable of maintaining a poten-RT Barkhausen effect tial difference, and thus a current, within a electron beams Biot-Savart law circuit. They can be established by chemical computational electromagnetics action or by mechanical work. electric fields electromotive forces electricity . ponderomotive forces electromagnetic fields electric batteries ing points. electromagnetic measurement electric generators GS beams (radiation) electromagnetic radiation electric potential . particle beams electromagnets Ohms law . electron beams electrophysics open circuit voltage . . . relativistic electron beams grand unified theory particles magnet coils electromyograms . corpuscular radiation magnetic coils USE electromyography . . electron radiation magnetic field inversions ... electron beams magnetic fields electromyographs . . . relativistic electron beams USE electromyography magnetic properties beam injection magnetoresistivity beam neutralization unified field theory electromyography beam plasma amplifiers The study of the response of a muscle beta particles electromagnets to an electric stimulation. Used for electromyo-Brillouin flow electromagnetic control grams and electromyographs. diffraction radiation electromyograms GS magnets electron cyclotron heating . electromagnets electromyographs ionizing radiation magnetic lenses GS bioengineering . . high field magnets . superconducting magnets . biometrics monoscopes nanofabrication electromagnetism . electromyography field coils electrophysiology plasma jets medical electronics magnet coils scalloping racetracks (particle accelerators) myoelectricity scanning electron microscopy solenoids transmission electron microscopy electron acceleration DEF The acceleration of electrons by action electromechanical devices electron bombardment GS electromechanical devices of solar cosmic rays. RT ∞ bombardment rates (per time) . microelectromechanical systems deposition . acceleration (physics) . . microoptoelectromechanical particle beams . electron acceleration systems plasma jets . electric motors RT ∞ acceleration relativistic electron beams . piezoelectric actuators cosmic rays sputtering electrons . . asynchronous motors extraterrestrial radiation . . induction motors electron bunching particle beams . . micromotors GS bunching solar cosmic ravs . . piezoelectric motors electron bunching stepping motors catchers synchronous motors electron accelerators convection currents particle accelerators torque motors GS klystrons electron accelerators RT ∞ electric equipment traveling wave tubes electroactive polymers . betatrons velocity modulation  $RT \, \infty \, accelerators \,$ electrodynamics linear accelerators electromechanics electron capture ∞ equipment synchrotrons GS nuclear reactions homopolar generators Van de Graaff accelerators . nuclear interactions . . nuclear capture electromechanics electron affinity . . . electron capture
. . spin-orbit interactions electrodynamics GS affinity electromechanics electron affinity ... electron capture circuits RT anions particle interactions electric fields molecular ions . elementary particle interactions electrokinetics negative electron affinity electromagnetic fields semiconductors (materials) . . nuclear capture ... electron capture electromechanical devices electron attachment

electrostatics magnetic field inversions

magnetic fields Maxwell equation

∞ mechanics (physics)

#### electrometers

DEF Instruments for measuring differences of electric potential.

measuring instruments GS electrometers

electric charge electrical measurement electron counters

electron avalanche

RT ∞ attachment gas ionization

ionization

GS electron attachment

. nucleophiles

The process in which a relatively small number of free electrons in a gas that is subjected to a strong electric field accelerate, ionize gas atoms by collision, and thus form new free electrons to undergo the same process in cumulative fashion

Specifically, focused streams of electrons used for neutralization of the positively charged ion beam in an ion engine. Also used to melt or weld materials with externally high melt-

. nuclear interactions . . nuclear capture

. electron capture

. . spin-orbit interactions

. . . electron capture

. spin-orbit interactions

. electron capture

capture effect many electron effects

#### electron clouds

RT ∞ clouds orbitrons space charge atmospheric ionization temperature

electron collisions

USE electron scattering

electron compounds USE intermetallics

#### electron counters

electron detectors UF measuring instruments GS

. counters

. . radiation counters

. . electron counters

. radiation measuring instruments

. . radiation counters

. . electron counters

RT electrometers ionization chambers

#### electron cyclotron heating

DEF A type of radio frequency plasma heating in which high-power microwave energy is introduced into the plasma region.

GS heating

. plasma heating

electron cyclotron heating

electron beams electron cyclotron resonance electron guns klystrons magnetic pumping

#### electron cyclotron resonance

(added June 1997)

resonance

. cvclotron resonance

. electron cyclotron resonance

cyclotron resonance devices electron cyclotron heating plasma heating plasma resonance

#### electron decay rate

GS rates (per time)

. decay rates

. electron decay rate

muons

secondary cosmic rays

#### electron density (concentration)

GS density (number/volume)

. particle density (concentration)

electron density (concentration)

. . . carrier density (solid state)

... electron density profiles

... ionospheric electron density

. . . magnetospheric electron density atmospheric composition

atmospheric density atom concentration density functional theory free electrons ion density (concentration) plasma density plasma frequencies radiation belts semiconductors (materials) space density

#### electron density profiles

GS density (number/volume)

. particle density (concentration)

. . electron density (concentration)

... electron density profiles

. . electron distribution

. electron density profiles

distribution (property)

. electron distribution

. electron density profiles

gradients

electron density profiles

angular distribution atmospheric electricity electron detectors

USE electron counters

#### electron diffraction

The phenomenon, or the technique of producing diffraction patterns through the incidence of electrons as a function of kinetic en-

diffraction GS

electron diffraction

RT Bragg angle diffraction radiation

x ray diffraction

## electron diffusion

GS diffusion

. particle diffusion

. electron diffusion

ambipolar diffusion diffusion length diffusion waves gaseous self-diffusion ionic diffusion plasma diffusion

thermal diffusion

#### electron distribution

GS density (number/volume)

. particle density (concentration)

.. electron distribution . . electron density profiles

distribution (property)

electron distribution

. electron density profiles

charge distribution current distribution density functional theory Thomas-Fermi model vertical distribution

### electron emission

GS emission

. particle emission

. electron emission

. . . field emission

. . . photoelectric emission

... secondary emission

cathodes

electric discharges emitters

negative electron affinity

pair production

photoelectric materials

photoelectron spectroscopy

photoelectrons

photoionization

radio frequency discharge

self sustained emission stimulated emission thermal emission thermionic emission

thermionics work functions

electron energy

electron temperature electronic levels

GS particle energy

. electron energy

. . electron states

activation energy electronic structure electrostatic probes

energy forbidden bands

Hartree-Fock-Slater method interfacial energy

ionospheric temperature

kinetic energy noise temperature plasmas (physics)

proton energy space temperature

surface energy

SN (LIMITED TO ELECTRON EMISSION OR DETECTION RATE PER UNIT AREA)
UF electron intensity rates (per time) . flux density

GS

flux (rate)

. . radiant flux density

. . . particle flux density . . . . electron flux density

RT irradiance radiancy solar flux density

#### electron gas

electron flux

USE electrons

RT cosmic gases electrohydrodynamics free electrons ionized gases plasmons quantum Hall effect rarefied gases screen effect superconductors (materials)

electron guns

DEF Electrode structures which produce and may control, focus, deflect, and converge one or more electron beams.

RT cathode ray tubes crossed field guns electron cyclotron heating flying spot scanners ∞ guns magnetic lenses particle accelerators

plasma guns tube anodes tube cathodes tube grids

electron holes

USE holes (electron deficiencies)

#### electron impact

impact GS

. electron impact

ion impact point impact proton impact

electron intensity

USE electron flux density

electron interactions

USE electron scattering

electron ionization USE ionization

### electron irradiation

GS irradiation

. electron irradiation auroral irradiation ion irradiation secondary emission

#### electron mass

GS mass

. particle mass

. electron mass RT electrons

## electron microscopes

GS microscopes

electron microscopes

field emission ion microscopes magnetic lenses microanalysis optical microscopes photomicrography replicas

scanning electron microscopy

scanning tunneling microscopy

#### electron microscopy

The interpretive application of an electron microscope for the magnification of materials that cannot be properly seen with an optical microscope.

GS microscopy

#### . electron microscopy

- . . scanning electron microscopy . . scanning tunneling microscopy
- . transmission electron microscopy

field emission ion microscopes magnetic lenses microanalysis

#### electron mobility

GS electrical properties

phase contrast

. carrier mobility

. electron mobility mobility

. carrier mobility

electron mobility transport properties

. carrier mobility

. electron mobility

ambipolar diffusion

atomic mobilities charge carriers

electrohydrodynamics electromigration

high electron mobility transistors

hole mobility majority carriers minority carriers modulation doping

NDM semiconductor devices

semiconductor plasmas

square wells

electron multipliers

USE photomultiplier tubes

## electron optics

DEF The science that deals with the propagation of electrons, as light optics deals with light and its phenomena.

RT atom optics beam switching Brillouin flow cathode ray tubes electro-optics flying spot scanners

ion optics ∞ optics

particle trajectories steering

#### electron orbitals

GS orbitals

electron orbitals

configuration interaction electronic structure excimers

#### electron oscillations

GS oscillations

electron oscillations

oscillator strengths plasma oscillations transient oscillations

### electron paramagnetic resonance

electron spin resonance

resonance

. magnetic resonance

. . paramagnetic resonance ... electron paramagnetic

resonance

RT Jahn-Teller effect

electron paths

USE electron trajectories

## electron phonon interactions

RT ∞ interactions particle interactions plasma-particle interactions polarons . superconductivity

thermodynamic coupling

#### electron photography

GS imagery

photography

electron photography

black and white photography

#### electron photon cascades

RT bremsstrahlung

∞ cascades

cosmic ray showers pair production secondary cosmic rays

#### electron plasma

GS particles

. charged particles

. . energetic particles

. . . plasmas (physics) . . . . electron plasma

. corpuscular radiation

. energetic particles
. . plasmas (physics)
. . . electron plasma

electron-positron plasmas helium plasma

high temperature plasmas

Landau damping metallic plasmas

plasma waves

plasma-particle interactions rarefied plasmas relativistic plasmas

## electron precipitation

particle precipitation

thermal plasmas

electron precipitation

particles

corpuscular radiation

#### . electron precipitation

auroras

∞ precipitation proton precipitation

radiation belts secondary cosmic rays trapped particles

### electron pressure

GS pressure

. radiation pressure

. . electron pressure

#### electron probes

Narrow beams of electrons used to scan or illuminate an object or screen.

GS measuring instruments

electron probes

chemical analysis irradiation

microwave plasma probes spectrometers

### electron pumping

energy transfer excimer lasers gas lasers lasers

nuclear pumping nuclear radiation optical pumping

population inversion

∞ pumping stimulated emission

#### electron radiation

(LIMITED TO RADIATION CONSISTING OF ELECTRONS--EXCLUDES ELECTROMAGNETIC RADIATION) particles

stimulated emission devices

. corpuscular radiation

... electron radiation

... beta particles

. . . electron beams

. . . relativistic electron beams

RT bremsstrahlung

nuclear radiation plasma radiation proton irradiation ∞ radiation radiation effects

## electron recombination

GS recombination reactions

electron recombination

. radiative recombination ion recombination neutral particles

electron ring accelerators USE storage rings (particle accelerators)

### electron runaway (plasma physics)

High acceleration of electrons in a collisional plasma caused by a suddenly applied electric field (which greatly reduces the collision cross section of the electrons).

GS scattering

. electron scattering

. . electron runaway (plasma

physics)

collisional plasmas high acceleration plasma physics scattering cross sections

#### electron scattering

UF electron collisions electron interactions

scattering

#### . electron scattering

. electron runaway (plasma physics)

atomic collisions dense plasmas elastic scattering inelastic scattering ion scattering many electron effects nuclear reactions nuclear scattering

particle interactions photon-electron interaction

Ramsauer effect recoil ions relativistic electron beams

transmission electron microscopy Umklapp process

# electron sources

RT ∞ energy sources ion sources ∞ power supplies

radiation sources ∞ sources

# electron spectroscopy

DEF The study and interpretation of atomic, molecular, and solid state structure based on x ray induced electron emission from substances.

spectroscopy GS

## . electron spectroscopy

absorption spectra emission spectra infrared spectroscopy molecular spectroscopy optical emission spectroscopy x ray absorption

## electron spin

GS spin

. particle spin

electron spin angular momentum nuclear spin spin dynamics

electron spin resonance

USE electron paramagnetic resonance

#### electron states

GS level (quantity) . energy levels

particle energy . electron energy

|  | electron states  | picture tubes  | World Wide Web   |
|--|--|--|--|
| RT                                     | density functional theory  | cesium diodes  | the first of the same of the s |
|  | electronic structure   | microwave tubes  | electronic commerce  |
|  | excimers   | celescopes   | (added April 2000) DEF The buying and selling of goods and   |
|  | excitation   | cyclotron resonance devices  | , 0 0  |
|  | ground state   | klystrons  | services via the Internet or other computer com-<br>munications network.   |
|  | many electron effects  | magnetrons   | UF e-commerce  |
|  | noise temperature  | nigotrons<br>planotrons  | GS commerce  |
| electron                               | sweeping   | traveling wave tubes   | . electronic commerce  |
|  | sweep frequency  | backward wave tubes  | RT computer information security   |
|  | ,  | helitrons  | electronic mail  |
| electron                               | telescopes   | carcinotrons   | Internet resources   |
| USE                                    | particle telescopes  | vacuum tube oscillators  | websites   |
|  |  | RT cavity resonators   | World Wide Web   |
|  | temperature  | circuits   | the decided of the second of   |
| USE                                    | electron energy  | crossed field amplifiers   | electronic control   |
| alaatrar                               | trainatorias   | diodes   | RT automatic control   |
|  | trajectories   | fiber optics   | cascade control  |
| tron path                              | The paths of electrons. Used for elec-   | ∞ heaters  | ∞ control control equipment  |
| UF                                     | electron paths   | modulators   | control systems design   |
| GS                                     | trajectories   | orbitrons  | controllers  |
|  | . particle trajectories  | oscillators<br>pentodes  | current regulators   |
|  | electron trajectories  | rectifiers   | electric control   |
| RT                                     | diffraction paths  | resonators   | electric switches  |
|  | magnetic rigidity  | tetrodes   | feedback control   |
|  | radiation belts  | transconductance   | hydraulic control  |
|  |  | triodes  | optical control  |
|  | transfer   | tube grids   | pneumatic control  |
| RT                                     | backward wave tubes  | ∞ tubes  | remote control   |
|  | charge exchange  | tunnel cathodes  | Terminal Configured Vehicle Program  |
|  | charge transfer  | velocity modulation  | voltage regulators   |
|  | oxidation  | x ray tubes  | -1   |
|  | transferred electron devices   |  | electronic countermeasures GS countermeasures  |
|  | transferring   | electron tunneling   | . electronic countermeasures   |
| electron                               | transitions  | UF tunnel resistors  | antiradar coatings   |
| RT                                     | atomic theory  | RT energy levels   | chaff  |
|  | Auger effect   | Josephson effect   | RT deception   |
|  | Auger spectroscopy   | MIM diodes   | electromagnetic compatibility  |
|  | Balmer series  | quantum dots   | electromagnetic interference   |
|  | band structure of solids   | resonant tunneling   | electronic aircraft  |
|  | Bohr theory  | scanning tunneling microscopy  | electronic warfare   |
|  | conduction bands   | semiconductors (materials)   |  |
|  | COTTACOLOTT DATECT   |  | jamming  |
|  | excimers   | superconductivity  | jamming optical countermeasures  |
|  |  | superconductivity<br>tunnel diodes   |  |
|  | excimers   | superconductivity<br>tunnel diodes<br>tunnel junctions   | optical countermeasures  |
|  | excimers<br>excitation<br>forbidden transitions<br>Franck-Condon principle   | superconductivity<br>tunnel diodes   | optical countermeasures radar detection  |
|  | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect   | superconductivity<br>tunnel diodes<br>tunnel junctions   | optical countermeasures<br>radar detection<br>radio frequency interference<br>stealth technology   |
|  | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing  | superconductivity<br>tunnel diodes<br>tunnel junctions   | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  |
|  | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects  | superconductivity<br>tunnel diodes<br>tunnel junctions<br>∞ tunneling  | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment DEF Equipment in which electricity is con-   |
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| electror<br>DEF<br>trons tak<br>medium | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects nuclear capture optical transition oscillator strengths Paschen series Rydberg series transition transition probabilities x ray lasers xenon chloride lasers xenon fluoride lasers  tubes Devices in which conduction by eleces place through a vacuum of gaseous within a gas tight envelope. electron tubes . camera tubes . image dissector tubes . orthicons image orthicons ireturn beam vidicons thermicons . cold cathode tubes photomultiplier tubes frequency modulation  | superconductivity tunnel diodes tunnel junctions  tunneling  electronarcosis  RT electroanesthesia electrophysiology  electron-hole drops  DEF Exciton condensations exhibiting the properties of electrically conducting plasmas which form in germanium and silicon crystals at sufficiently low cryogenic temperatures.  RT carrier density (solid state) luminescence magnetic fields optical pumping phase transformations plasma density plasma equilibrium semiconductor plasmas single event upsets  electronic aircraft  DEF Designation for tactical electronic war- fare aircraft.  RT ∞ aircraft automatic control electronic countermeasures  | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  DEF Equipment in which electricity is conducted principally by electrons moving through a vacuum, gas, or semiconductor.  GS electronic equipment  diodes  . crystal rectifiers  . plasma diodes  . semiconductor diodes  . avalanche diodes  . cryosar  . Barritt diodes  . germanium diodes  . gunn diodes  . transferred electron devices  . junction diodes  . MIM diodes  . step recovery diodes  . light emitting diodes  . parametric diodes  . parametric diodes  . schottky diodes  . tunnel diodes  . tunnel diodes  . tunnel diodes  . termionic diodes  . termionic diodes  . cesium diodes  . electronic filters  electronic modules  . micromodules  . electronic packaging   |
| electror<br>DEF<br>trons tak<br>medium | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects nuclear capture optical transition oscillator strengths Paschen series Rydberg series transition transition probabilities x ray lasers xenon chloride lasers xenon fluoride lasers xenon fluoride lasers  tubes Devices in which conduction by elec- es place through a vacuum of gaseous within a gas tight envelope. electron tubes . camera tubes . image dissector tubes . orthicons image orthicons image orthicons thermicons . cold cathode tubes . phototubes photomultiplier tubes frequency modulation   | superconductivity tunnel diodes tunnel junctions  tunneling  electronarcosis  RT electroanesthesia electrophysiology  electron-hole drops  DEF Exciton condensations exhibiting the properties of electrically conducting plasmas which form in germanium and silicon crystals at sufficiently low cryogenic temperatures.  RT carrier density (solid state) luminescence magnetic fields optical pumping phase transformations plasma density plasma equilibrium semiconductor plasmas single event upsets  electronic aircraft DEF Designation for tactical electronic war- fare aircraft.  RT ∞ aircraft automatic control electronic countermeasures  electronic amplifiers USE amplifiers  USE amplifiers   | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  DEF Equipment in which electricity is conducted principally by electrons moving through a vacuum, gas, or semiconductor.  GS electronic equipment  diodes  crystal rectifiers  plasma diodes  semiconductor diodes  avalanche diodes  germanium diodes  germanium diodes  function diodes  function diodes  function diodes  fight emitting diodes  parametric diodes  parametric diodes  photodiodes  schottky diodes  tunnel diodes  thermionic diodes  thermionic diodes  cesium diodes  electronic modules  micromodules  electronic recording systems  |
| electror<br>DEF<br>trons tak<br>medium | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects nuclear capture optical transition oscillator strengths Paschen series Rydberg series transition transition probabilities x ray lasers xenon chloride lasers xenon fluoride lasers xenon fluoride lasers  tubes Devices in which conduction by elec- es place through a vacuum of gaseous within a gas tight envelope. electron tubes . amage dissector tubes . orthicons . image orthicons . vidicons . return beam vidicons thermicons . cold cathode tubes . photomultiplier tubes frequency modulation     photomultipliers . gas discharge tubes . ignitrons  | superconductivity tunnel diodes tunnel junctions  tunneling  electronarcosis  RT electroanesthesia electrophysiology  electron-hole drops  DEF Exciton condensations exhibiting the properties of electrically conducting plasmas which form in germanium and silicon crystals at sufficiently low cryogenic temperatures.  RT carrier density (solid state) luminescence magnetic fields optical pumping phase transformations plasma density plasma equilibrium semiconductor plasmas single event upsets  electronic aircraft  DEF Designation for tactical electronic war- fare aircraft.  RT ∞ aircraft automatic control electronic countermeasures  electronic amplifiers USE amplifiers  electronic bulletin boards  | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  DEF Equipment in which electricity is conducted principally by electrons moving through a vacuum, gas, or semiconductor.  GS electronic equipment  diodes  crystal rectifiers  plasma diodes  semiconductor diodes  semiconductor diodes  avalanche diodes  cryosar  Barrit diodes  germanium diodes  germanium diodes  fundiodes  fundiodes  fundiodes  fundiodes  step recovery diodes  plate mitting diodes  photodiodes  schottky diodes  tunnel diodes  tunnel diodes  tunnel diodes  tesim diodes  electronic diodes  electronic modules  micromodules  electronic recording systems electronic transducers   |
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| electror<br>DEF<br>trons tak<br>medium | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects nuclear capture optical transition oscillator strengths Paschen series Rydberg series transition transition probabilities x ray lasers xenon chloride lasers xenon fluoride lasers  tubes Devices in which conduction by eleces place through a vacuum of gaseous within a gas tight envelope. electron tubes . camera tubes . image dissector tubes . orthicons . image orthicons . incore . return beam vidicons . thermicons . cold cathode tubes . photortubes . photomultiplier tubes . ignitrons . ignitrons . ignige tubes . ignitrons . image tubes                        | superconductivity tunnel diodes tunnel junctions  tunneling  electronarcosis  RT electroanesthesia electrophysiology  electron-hole drops  DEF Exciton condensations exhibiting the properties of electrically conducting plasmas which form in germanium and silicon crystals at sufficiently low cryogenic temperatures.  RT carrier density (solid state) luminescence magnetic fields optical pumping phase transformations plasma density plasma equilibrium semiconductor plasmas single event upsets  electronic aircraft  DEF Designation for tactical electronic war- fare aircraft.  RT ∞ aircraft automatic control electronic countermeasures  electronic amplifiers USE amplifiers  electronic bulletin boards (added September 1993) UF computer bulletin boards   | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  DEF Equipment in which electricity is conducted principally by electrons moving through a vacuum, gas, or semiconductor.  GS electronic equipment diodes . crystal rectifiers . plasma diodes . semiconductor diodes . avalanche diodes . cryosar . Barritt diodes . germanium diodes . gunn diodes . funn diodes . intransferred electron devices . junction diodes . MIM diodes . step recovery diodes . light emitting diodes . parametric diodes . parametric diodes . schottky diodes . tunnel diodes . varactor diodes . tunnel diodes . termionic diodes . cesium diodes . cesium diodes . electronic filters electronic modules . micromodules . electronic recording systems electronic transducers . miniature electronic equipment . solid state devices   |
| electror<br>DEF<br>trons tak<br>medium | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects nuclear capture optical transition oscillator strengths Paschen series Rydberg series transition transition probabilities x ray lasers xenon chloride lasers xenon fluoride lasers xenon fluoride lasers  tubes Devices in which conduction by elec- es place through a vacuum of gaseous within a gas tight envelope. electron tubes . camera tubes . image dissector tubes . orthicons image orthicons itermicons . cold cathode tubes . phototubes photomultiplier tubes frequency modulation   | superconductivity tunnel diodes tunnel junctions  tunneling  electronarcosis  RT electroanesthesia electrophysiology  electron-hole drops  DEF Exciton condensations exhibiting the properties of electrically conducting plasmas which form in germanium and silicon crystals at sufficiently low cryogenic temperatures.  RT carrier density (solid state) luminescence magnetic fields optical pumping phase transformations plasma density plasma equilibrium semiconductor plasmas single event upsets  electronic aircraft DEF Designation for tactical electronic war- fare aircraft.  RT ≈ aircraft automatic control electronic countermeasures  electronic amplifiers USE amplifiers  electronic bulletin boards (added September 1993) UF computer bulletin boards RT communication networks  | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  DEF Equipment in which electricity is conducted principally by electrons moving through a vacuum, gas, or semiconductor.  GS electronic equipment  diodes  crystal rectifiers  plasma diodes  semiconductor diodes  avalanche diodes  cryosar  Barritt diodes  germanium diodes  function diodes  electronic modules  electronic modules  electronic recording systems  electronic recording systems  electronic transducers  miniature electronic equipment  solid state devices  cryotrons   |
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| electror<br>DEF<br>trons tak<br>medium | excimers excitation forbidden transitions Franck-Condon principle Jahn-Teller effect lasing many electron effects nuclear capture optical transition oscillator strengths Paschen series Rydberg series transition transition probabilities x ray lasers xenon chloride lasers xenon fluoride lasers xenon fluoride lasers  tubes Devices in which conduction by elec- es place through a vacuum of gaseous within a gas tight envelope. electron tubes . camera tubes . image dissector tubes . orthicons image orthicons return beam vidicons thermicons . cold cathode tubes phototubes photomultiplier tubes frequency modulation  | superconductivity tunnel diodes tunnel junctions  tunneling  electronarcosis  RT electroanesthesia electrophysiology  electron-hole drops  DEF Exciton condensations exhibiting the properties of electrically conducting plasmas which form in germanium and silicon crystals at sufficiently low cryogenic temperatures.  RT carrier density (solid state) luminescence magnetic fields optical pumping phase transformations plasma density plasma equilibrium semiconductor plasmas single event upsets  electronic aircraft  DEF Designation for tactical electronic war- fare aircraft.  RT ∞ aircraft automatic control electronic countermeasures  electronic amplifiers USE amplifiers  electronic bulletin boards (added September 1993) UF computer bulletin boards RT communication networks computer conferencing electronic mail                     | optical countermeasures radar detection radio frequency interference stealth technology  electronic equipment  DEF Equipment in which electricity is conducted principally by electrons moving through a vacuum, gas, or semiconductor.  GS electronic equipment  . diodes  . crystal rectifiers  . plasma diodes  . semiconductor diodes  . avalanche diodes  . cryosar  . Barrit diodes  . germanium diodes  . germanium diodes  . Itransferred electron devices  . junction diodes  . step recovery diodes  . light emitting diodes  . parametric diodes  . photodiodes  . Schottky diodes  . tunnel diodes  . varactor diodes  . tesium diodes  . cesium diodes  . electronic filters  electronic modules  . micromodules  . micromodules  . electronic ransducers  miniature electronic equipment  solid state devices  . cryotrons  . crystal rectifiers  . metal-nitride-oxide-semiconductors   |

| cryosar   | electrical measurement          | tape recorders   |
|---|---------------------------------|--|
| Barritt diodes  | environmental tests             | •  |
| charge transfer devices                                 | fault detection                 | electronic signal measurement                                      |
| bucket brigade devices                                  | nondestructive tests            | USE signal measurement   |
| charge coupled devices                                  | oscilloscopes                   |  |
| charge injection devices                                | quality control                 | electronic spectra   |
| germanium diodes  | resonance testing               | SN (EMISSION OR ABSORPTION   |
| heterojunction devices                                  | self tests                      | MOLECULAR SPECTRA OF AN ELECTRON TRANSITION)                       |
| high electron mobility transistors                      | stability tests                 | GS molecular properties  |
| MODFETS   | ∞ test equipment                | . molecular spectra  |
| junction diodes   | ∞ tests                         | electronic spectra   |
| MIM diodes  | vibration tests                 | spectra  |
| step recovery diodes                                    |                                 | . energy spectra   |
| light emitting diodes                                   | electronic filters              | . electronic spectra   |
| metal oxide semiconductors                              | GS electronic equipment         | . molecular spectra  |
| CMOS  | . electronic filters            | electronic spectra   |
| ITO (semiconductors)                                    | RT electric filters             | . radiation spectra  |
| SOS (semiconductors)                                    | ∞ filters                       | electromagnetic spectra  |
| MIM (semiconductors)                                    | FIR filters                     | line spectra   |
| MIS (semiconductors)                                    |                                 | electronic spectra   |
| MOM (semiconductors)                                    | electronic levels               | RT absorption spectra  |
| MSM (semiconductors)                                    | USE electron energy             | emission spectra   |
| NDM semiconductor devices                               | energy levels                   | Lyman spectra  |
| neuristors  |                                 | spectral bands   |
| parametric diodes                                       | electronic mail                 | vibrational spectra  |
| photodiodes   | UF e-mail                       |  |
| photovoltaic cells                                      | GS telecommunication            | electronic structure   |
| solar cells   | . electronic mail               | (added April 1999)   |
| vertical junction solar cells                           | RT communication networks       | SN (THE TERM "ATOMIC STRUCTURE" WAS USED FOR THIS CONCEPT PRIOR TO |
| Schottky diodes semiconductor lasers                    | communication satellites        | MAY 1999)  |
|   | computer conferencing           | RT atomic structure  |
| aluminum gallium arsenide                               | computer networks               | band structure of solids   |
| lasers  | data transmission               | density functional theory  |
| gallium arsenide lasers guantum cascade lasers          | electronic bulletin boards      | electron energy  |
| •   | electronic commerce             | electron orbitals  |
| quantum well lasers<br>YLF lasers                       | electronic publishing           | electron states  |
| SOI (semiconductors)                                    | Internet resources              | energy bands   |
| thermistors   | internets                       | energy gaps (solid state)  |
| thyristors  |                                 | energy levels  |
| silicon controlled rectifiers                           | electronic modules              | Fermi liquids  |
| transferred electron devices                            | GS electronic equipment         |  |
| transistor amplifiers                                   | electronic modules              | electronic switches  |
| transistors   | micromodules                    | USE switching circuits   |
| bipolar transistors                                     | modules                         |  |
| field effect transistors                                | . electronic modules            | electronic transducers   |
| charge flow devices                                     | micromodules                    | GS electronic equipment  |
| JFET  | RT ∞ hardware                   | electronic transducers   |
| MODFETS   | miniature electronic equipment  | transducers  |
| high electron mobility transistors                      | modularity                      | . electronic transducers   |
| MODFETS   | subminiaturization              | RT magnetic transducers  |
| junction transistors                                    |                                 | ∞ sensors  |
| JFET  | electronic packaging            | ultrasonic wave transducers  |
| phototransistors  | GS electronic equipment         | electronic warfare   |
| silicon transistors                                     | electronic packaging            | DEF Military action involving the use of                           |
| SOS (semiconductors)                                    | packaging                       | electromagnetic energy to determine, exploit,                      |
| cascode devices   | electronic packaging            | reduce, or prevent hostile use of the electromag-                  |
| quantum well infrared                                   | RT circuit boards               | netic spectrum, and action which retains friendly                  |
| photodetectors  | DTL integrated circuits         | use of the electromagnetic spectrum.                               |
| TRAPATT devices   | encapsulating                   | GS military operations   |
| varactor diodes   | hybrid circuits                 | . electronic warfare   |
| varistors   | integrated circuits             | warfare  |
| SIS (semiconductors)                                    | large scale integration         | . electronic warfare   |
| SIS (superconductors)                                   | linear integrated circuits      | RT air defense   |
| solid state lasers                                      | medium scale integration        | antiradar coatings   |
| aluminum gallium arsenide lasers                        | micromodules                    | chaff  |
| DBR lasers  | printed circuits                | combat   |
| fiber lasers  | thick films                     | deception  |
| gallium arsenide lasers                                 | TTL integrated circuits         | electromagnetic compatibility                                      |
| quantum cascade lasers                                  |                                 | electromagnetic interference                                       |
| quantum well lasers                                     | electronic photography          | electromagnetic spectra  |
| ruby lasers   | USE electro-optical photography | electronic countermeasures   |
| YAG lasers  |                                 | evasive actions  |
| YLF lasers  | electronic publishing           | jamming  |
| . spacecraft electronic equipment RT antenna components | (added July 1995)               | missile detection  |
|   | RT computer conferencing        | peacetime  |
| bubble technique<br>∞ electric equipment                | document markup languages       | radar detection  |
| ∞ electric equipment  ∞ electronics                     | documents                       | radio frequency interference                                       |
| ∞ equipment   | electronic mail                 | stealth technology   |
| ∞ equipment<br>radiation hardening                      | hypertext                       | strategy   |
| spherical antennas                                      | information dissemination       | alastronias  |
| system generated electromagnetic                        | multimedia                      | ∞ electronics  |
| pulses  | printing                        | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS    |
| P41000  |                                 | LISTED BELOW)  |
| electronic equipment tests                              | electronic recording systems    | DEF Study and application of the motions of                        |
| SN (CHECKOUT OF ELECTRONIC                              | GS electronic equipment         | electrons through vacuum and gaseous, con-                         |
| ÈQUIPMENT)  | electronic recording systems    | ducting, or semiconducting media. Used for                         |
| RT Earth terminal measurement system                    | RT recording instruments        | photoelectronics.  |
| electric equipment tests                                | ∞ systems                       | UF photoelectronics  |

| RT        | astrionics                                  | energetic particles           |         | birefringence                               |
|-----------|---|-------------------------------|---------|---|
|           | avionics                                    | electrons                     |         | charge injection devices                    |
|           | digital electronics                         | conduction electrons          |         | electrochromism                             |
|           | electrical engineering                      | free electrons                |         | electroluminescence                         |
|           | electricity                                 | high energy electrons         |         | electron optics                             |
|           | electronic equipment                        | relativistic electron beams   |         | integrated optics                           |
|           | electrophysics                              | hot electrons                 |         | Kerr electrooptical effect                  |
|           | medical electronics                         | N electrons                   |         | laser microscopy                            |
|           | microelectronics                            | negatrons                     |         | light modulators                            |
|           | molecular electronics                       | photoelectrons                |         | light valves                                |
|           | nucleonics                                  | pi-electrons                  |         | magneto-optics                              |
|           | quantum electronics                         | polarons                      |         | optical computers                           |
|           | radio electronics                           | solar electrons               |         | optical control                             |
|           | thermionics                                 | . elementary particles        |         | optical relay systems                       |
|           | transistor circuits                         | fermions                      |         | optical switching                           |
|           | volt-ampere characteristics                 | leptons                       |         | ∞ optics                                    |
|           | Total amporto orial actoricado              | electrons                     |         | optoelectronic devices                      |
| electro   | n-ion recombination                         | conduction electrons          |         | photonics                                   |
| GS        | recombination reactions                     | free electrons                |         | position sensing                            |
| -         | . electron-ion recombination                | high energy electrons         |         | pushbroom sensor modes                      |
|           | radiative recombination                     | relativistic electron beams   |         | Stark effect                                |
| RT        | ion recombination                           | hot electrons                 |         | tunable filters                             |
| 111       | plasma control                              | N electrons                   |         | turiable lillers                            |
|           | plasifia control                            |                               | alactro | phoresis                                    |
| oloctro   | agraphy                                     | negatrons                     |         | The movement of colloidal particles         |
|           | nography                                    | photoelectrons                |         |   |
| RT        | electrophysiology                           | pi-electrons                  |         | ed by the application of an electric poten- |
|           | printing                                    | polarons                      |         | ed for continuous flow electrophoresis.     |
| -1        |   | solar electrons               | UF      | continuous flow electrophoresis             |
|           | -positron annihilation                      | RT acceptor materials         | RT      | bioprocessing                               |
| USE       | positron annihilation                       | beta particles                |         | colloids                                    |
|           |   | Bohr magneton                 |         | electrodeposition                           |
|           | n-positron pairs                            | cosmic rays                   |         | electroplating                              |
|           | ed September 1988)                          | donor materials               |         | ∞ microgravity applications                 |
| GS        | particles                                   | electron acceleration         |         | particle motion                             |
|           | . elementary particles                      | electron mass                 |         |   |
|           | electron-positron pairs                     | electron-positron pairs       | electro | photometers                                 |
| RT        | annihilation reactions                      | electron-positron plasmas     | UF      | photoelectric photometers                   |
|           | charged particles                           | excitons                      | GS      | measuring instruments                       |
|           | electron-positron plasmas                   |                               |         | . optical measuring instruments             |
|           | electrons                                   | holes (electron deficiencies) |         | photometers                                 |
|           | pair production                             | Lewis base                    |         | electrophotometers                          |
|           | positron annihilation                       | majority carriers             |         | . radiation measuring instruments           |
|           | positrons                                   | ∞ materials                   |         |   |
|           | positions                                   | minority carriers             |         | photometers                                 |
| alaatra   | nocitron placemas                           | muonium                       |         | electrophotometers                          |
|           | 1-positron plasmas                          | n-type semiconductors         |         | optical equipment                           |
|           | ed September 1988)                          | nuclear radiation             |         | optical measuring instruments               |
| GS        | particles                                   | Pomeranchuk theorem           |         | photometers                                 |
|           | . charged particles                         | quantum numbers               |         | electrophotometers                          |
|           | energetic particles                         | radiation belts               | RT      | electrophotometry                           |
|           | plasmas (physics)                           | semiconductors (materials)    |         |   |
|           | electron-positron plasmas                   | Suhl effect                   | electro | photometry                                  |
|           | . corpuscular radiation                     | our onoc                      | GS      | chemical tests                              |
|           | energetic particles                         | electronystagmography         |         | . chemical analysis                         |
|           | plasmas (physics)                           | GS bioengineering             |         | electrophotometry                           |
|           | electron-positron plasmas                   | . biometrics                  |         | optical measurement                         |
| RT        | electron plasma                             |                               |         | . photometry                                |
|           | electron-positron pairs                     | electronystagmography         |         | electrophotometry                           |
|           | electrons                                   | physiological tests           | RT      |   |
|           |   | electronystagmography         | KI      | colorimetry                                 |
|           | positrons                                   | RT eye examinations           |         | electrophotometers                          |
|           | relativistic plasmas                        | eye movements                 |         | electrophysics                              |
| -14       |   | nystagmus                     |         | ∞ materials tests                           |
| electro   |   | ophthalmology                 |         | microanalysis                               |
|           | Particles of very small mass, carrying a    |                               |         | photometers                                 |
|           | ative or positive charge. Negative elec-    | electro-optical effect        |         | pixels                                      |
|           | urrounding the nucleus (i.e., orbital elec- | RT ∞ effects                  |         | qualitative analysis                        |
|           | re prewent in all atoms. Their number is    | ∞ Kerr effects                |         | quantitative analysis                       |
|           | the number of positive charges (or          | light modulation              |         | spectroscopic analysis                      |
|           | in the particular nucleus. The term         | nonlinear optics              |         | spectroscopy                                |
| electron  | , when used alone, commmonly refers         | ∞ optics                      |         |   |
| to a ne   | gative electron. A positive electron is     | -1                            | electro | physics                                     |
|           | called a positron, and a negative elec-     | electro-optical photography   |         | electrophysics                              |
| tron is s | ometimes called a negatron.                 | UF electronic photography     |         | . electro-optics                            |
| UF        | electron flux                               | GS imagery                    |         | . molecular electronics                     |
| ٠.        | nonrelativistic electrons                   | . photography                 | RT      | electrochemistry                            |
| GS        | particles                                   | electro-optical photography   | 111     | electrokinetics                             |
| 00        | . charged particles                         |                               |         |   |
|           | energetic particles                         | RT astronomical photography   |         | electromagnetism                            |
|           | electrons                                   | black and white photography   |         | ∞ electronics                               |
|           |   | image resolution              |         | electrophotometry                           |
|           | conduction electrons                        | Lallemand cameras             |         | ∞ physics                                   |
|           | free electrons                              | optical measurement           |         | ∞ science                                   |
|           | high energy electrons                       | ∞ optics                      |         | theoretical physics                         |
|           | relativistic electron beams                 | streak photography            |         |   |
|           | hot electrons                               |                               |         | physiology                                  |
|           | N electrons                                 | electro-optical switching     | GS      | physiology                                  |
|           | negatrons                                   | USE optical switching         |         | electrophysiology                           |
|           | photoelectrons                              |                               | RT      |   |
|           | pi-electrons                                | electro-optics                | -       | depolarization                              |
|           | polarons                                    | GS electrophysics             |         | echoencephalography                         |
|           | solar electrons                             | . electro-optics              |         | electrocardiography                         |
|           |   | •                             |         |   |
|           | . corpuscular radiation                     | RT acousto-optics             |         | electroencephalography                      |

electromyography smart materials magnetrons electronarcosis rotating generators electroseismic effect electronography voltage generators electroplethysmography USE electric current electroretinography seismic waves electrostatic gyroscopes His bundle UF electrically suspended gyroscopes ∞ electroslag process information processing (biology) ESG (gyroscopes) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ion channels (biology) SN GS gyroscopes myelin sheath electrostatic gyroscopes nerve fibers electroslag refining nervous system electroslag welding electrostatic plasma neurology USE plasmas (physics) ∞ science electroslag refining GS refining electrostatic precipitators electroslag refining electroplating GS separators arc melting coating . precipitators ∞ electroslag process . electroplating electrostatic precipitators resistance heating coatings adsorption . electroplating air purification electroslag welding deposition air sampling GS welding electrodeposition dust collectors . fusion welding electroplating fly ash . . electric welding plating . electroslag welding electroplating RT ∞ electroslag process baths electrostatic probes cathodic coatings Langmuir probes electrostatic bonding current density DEF Use of the particle-attracting property of electrostatic charges to bond particles of one measuring instruments electrodes . plasma probes electroforming electrostatic probes charge to those of the opposite charge. electrolysis electrolytes . radiation measuring instruments RT binding energy . electrostatic probes coverings electrolytic cells RT electron energy encapsulating electrophoresis plasma frequencies energy technology metallizing radiation counters glass nickel plate SCATHA satellite solar arrays protective coatings solar cells surface finishing electrostatic propulsion GS propulsion electrostatic charge . electric propulsion electroplethysmography electric charge ... electrostatic propulsion electrostatic charge GS bioengineering biometrics . ion propulsion RT capacitance . low thrust propulsion charge distribution . . body measurement (biology) .. electrostatic propulsion charging ... electroplethysmography . . . ion propulsion electric discharges . . plethysmography . . . electroplethysmography . spacecraft propulsion
. electrostatic propulsion electric fields electrostatics blood circulation . ion propulsion SCATHA satellite electrophysiology electromagnetic propulsion static electricity medical electronics plasma propulsion xerography electropolishing DEF The impo electrostatic shielding electrostatic drag GS shielding The improvement in surface finish of a GS dynamic characteristics electrostatic shielding metal effected by making it anodic in an approelectric conductors priate solution. Used for electrolytic polishing. . electrostatic drag SCATHA satellite electrolytic polishing drag measurement GS metal finishing satellite drag electrostatic waves . electropolishing elastic waves polishing electrostatic engines . magnetohydrodynamic waves . metal polishing DEF Electric rocket engines that use charge . . plasma waves electropolishing potential differences to accelerate propellant electrostatic waves electrochemical machining ions. diffusion waves metallography GS engines surface finishing ionic waves . rocket engines longitudinal waves . . electric rocket engines ... electrostatic engines magnetoelastic waves electrorefining . . . . ion engines shock waves . . . . cesium engines wave-particle interactions . . . . . Hall thrusters

GS refining

electrorefining

electrodes electrolytes electrolytic cells electrowinning

## electroretinography

bioengineering

. biometrics

. electroretinography

electrophysiology medical electronics retina

### electrorheological fluids

(added June 1990) ER fluids elastodynamics electroactive polymers magnetorheological fluids rheology

#### electrostatic erosion USE spark machining

electrostatic fields USE electric fields

### electrostatic generators

electric generators

. direct power generators electrostatic generators

.... mercury ion engines

. RIT engines

microrocket engines
restartable rocket engines

sustainer rocket engines

arc jet engines

Vernier engines

arc generators ∞ generators klystrons

electrostriction

electrostatics

statics

electrostatics

Born-Infeld theory electric fields

electromechanics

magnetostatics

static electricity

Poisson equation

electrostatic charge

electromagnetic interactions

GS

The phenomenon wherein some dielectric materials experience an elastic strain when subjected to an electric field, this strain being independent of polarity of the field.

GS electrical properties . electrostriction

mechanical properties electrostriction

| рт        | alastroactivo polymora                          |         | Elektron 2 satellite               |                   | ni alaatrana   |
|-----------|---|---------|------------------------------------|-------------------|--|
| RT        | electroactive polymers                          |         | Elektron 2 satellite               |                   | pi-electrons<br>polarons                                     |
|           | magnetostriction piezoelectricity               |         | Elektron 4 Satellite               |                   | solar electrons  |
|           | smart materials                                 | element | abundance                          |                   | muons  |
|           | Smart materials                                 |         | abundance                          |                   | neutrinos  |
| electros  | ynthesis  |         |                                    |                   | solar neutrinos  |
|           | ed January 2000)                                | element | tary excitations                   |                   | positrons  |
|           | electrochemical synthesis                       | UF      | quasi-particles                    |                   | meson resonance  |
|           | -   | GS      | elementary excitations             |                   | X mesons   |
| electrot  | thermal engines                                 |         | . excitons                         |                   | neutrons   |
|           | Electric rocket engines that use elec-          |         | . magnons                          |                   | cold neutrons  |
|           | rgy to heat the propellant and add addi-        |         | . phonons                          |                   | fast neutrons  |
| tional er |   |         | phonon beams                       |                   | photoneutrons  |
| GS        | engines   |         | . plasmons                         |                   | solar neutrons   |
|           | rocket engines                                  | DT      | . polarons                         |                   | thermal neutrons   |
|           | electric rocket engines                         | RT      | many body problem                  |                   | protons  |
|           | electrothermal engines                          | olomon  | tary particle interactions         |                   | recoil protons   |
|           | arc jet engines                                 | GS      | particle interactions              |                   | solar protons  |
|           | pulsed jet engines                              | 03      | . elementary particle interactions |                   | hadrons  |
| DT        | resistojet engines                              |         | electroweak interactions (field    |                   | baryons  |
| RT        | high temperature propellants                    |         | theory)                            |                   | hyperons   |
|           | ion engines                                     |         | high energy interactions           |                   | xi hyperons  |
|           | nuclear electric propulsion plasma engines      |         | strong interactions (field theory) |                   | omega-mesons   |
|           | restartable rocket engines                      |         | meson-meson interactions           |                   | rho-mesons   |
|           | sustainer rocket engines                        |         | meson-nucleon interactions         |                   | sigma-mesons   |
|           | Sustainer focket engines                        |         | nuclear capture                    |                   | mesons   |
| electro   | weak interactions (field theory)                |         | electron capture                   |                   | eta-mesons   |
|           | ed April 1994)                                  |         | nucleon-nucleon interactions       |                   | hyperons   |
| GS        | particle interactions                           |         | weak energy interactions           |                   | xi hyperons<br>kaons   |
|           | . elementary particle interactions              |         | weak interactions (field theory)   |                   | meson resonance  |
|           | electroweak interactions (field                 |         | proton-antiproton interactions     |                   | X mesons   |
|           | theory)   | RT      | angular distribution               |                   | muons  |
| RT        | electromagnetic interactions                    |         | electromagnetic interactions       |                   | omega-mesons   |
|           | electroweak model                               | ~       | interactions                       |                   | pions  |
| 0         | o interactions                                  |         | ion atom interactions              |                   | vector mesons  |
|           | standard model (particle physics)               |         | Mandelstam representation          |                   | rho-mesons   |
|           | weak interactions (field theory)                |         | particle decay                     |                   | sigma-mesons   |
|           | ,   |         | photon-electron interaction        |                   | hypothetical particles                                       |
| electro   | weak model                                      |         | transverse momentum                |                   | magnetic monopoles   |
| (adde     | ed April 1994)                                  |         | Veneziano model                    |                   | nucleons   |
| UF        | standard electroweak model                      |         |                                    |                   | gluons   |
|           | Weinberg-Salam Gauge Model                      |         | tary particles                     |                   | gravitinos   |
| GS        | field theory (physics)                          | GS      | particles                          |                   | gravitons  |
|           | . gauge theory                                  |         | elementary particles               |                   | partons  |
|           | unified field theory                            |         | antiparticles                      |                   | quarks   |
|           | electroweak model                               |         | antineutrinos                      |                   | tachyons   |
|           | models  |         | antinucleons                       |                   | weakly interacting massive                                   |
|           | . electroweak model                             |         | antiprotons                        |                   | particles  |
| RT        | electromagnetic interactions                    |         | positrons                          | RT                | atomic structure   |
|           | electroweak interactions (field theory)         |         | beta particles                     |                   | bubble chambers  |
|           | Higgs bosons                                    |         | bosons                             |                   | charged particles  |
|           | particle theory                                 |         | alpha particles                    |                   | de Broglie wavelengths                                       |
|           | quantum theory                                  |         | Higgs bosons                       |                   | geocyclotrons  |
|           | standard model (particle physics)               |         | mesons                             |                   | hypernuclei  |
|           | weak interactions (field theory)                |         | eta-mesons                         |                   | instantons   |
| alaatra   | winning   |         | hyperons<br>xi hyperons            |                   | ionizing radiation   |
|           | winning The production of metals by electroly-  |         | kaons                              |                   | neutron scattering   |
|           | insoluble anodes in solutions derived           |         | meson resonance                    |                   | nuclear interactions   |
|           | es or other materials.                          |         | X mesons                           |                   | nuclear particles  |
| RT        | electrodeposition                               |         | muons                              |                   | nuclear radiation  |
| 111       | electrodes                                      |         | omega-mesons                       |                   | nuclei (nuclear physics)                                     |
|           | electrolytes                                    |         | pions                              |                   | particle accelerators  |
|           | electrolytic cells                              |         | vector mesons                      |                   | Pomeranchuk theorem positron annihilation                    |
|           | electrorefining                                 |         | rho-mesons                         |                   | quantum theory   |
|           | 3   |         | sigma-mesons                       |                   | radiation belts  |
| Elektro   | n 1 satellite                                   |         | photons                            |                   | standard model (particle physics)                            |
| GS        | artificial satellites                           |         | xi hyperons                        |                   | standard model (particle physics)                            |
|           | . meteorological satellites                     |         | deuterons                          | ∞ elemen          | to.  |
|           | Elektron satellites                             |         | electron-positron pairs            | ∞ elelileii<br>SN |  |
|           | Elektron 1 satellite                            |         | fermions                           | SIN               | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|           |   |         | baryons                            |                   | LISTED BELOW)  |
|           | n 2 satellite                                   |         | hyperons                           | RT                | atoms  |
| GS        | artificial satellites                           |         | xi hyperons                        |                   | chemical elements  |
|           | . meteorological satellites                     |         | omega-mesons                       |                   | hahnium  |
|           | . Elektron satellites                           |         | rho-mesons                         |                   | heavy elements   |
|           | Elektron 2 satellite                            |         | sigma-mesons                       |                   | isoparametric finite elements                                |
|           | 4 - 4 - 124                                     |         | eta-mesons                         |                   | light elements   |
|           | n 4 satellite                                   |         | leptons                            |                   | logical elements   |
| GS        | artificial satellites                           |         | antineutrinos                      |                   | neutral atoms  |
|           | . meteorological satellites                     |         | electrons                          |                   | nuclear fuel elements  |
|           | . Elektron satellites                           |         | conduction electrons               |                   | orbital elements   |
|           | Elektron 4 satellite                            |         | free electrons                     |                   | rutherfordium<br>tasks                                       |
| Elolete   | n antallitas                                    |         | high energy electrons              |                   | เฉอกอ  |
|           | n satellites                                    |         | relativistic electron beams        | alauati.          | an .   |
| GS        | artificial satellites                           |         | hot electrons<br>N electrons       | elevatio          |  |
|           | . meteorological satellites Elektron satellites |         |                                    | RT                | altimetry<br>altitude  |
|           | Elektron 1 satellite                            |         | negatrons photoelectrons           |                   | contours   |
|           | LIGITION I SALCHILE                             |         | priotoelectrons                    |                   | ountours   |

digital elevation models waste disposal Population II stars head (fluid mechanics) ring galaxies hydrostatic pressure ellipses shell galaxies hydrostatics DEF Plane curves constituting the locus of spiral galaxies hypsography all points the sum of whose distances from two star clusters low altitude fixed points called focuses or foci is constant; an Virgo galactic cluster pressure heads elongated circle. topography geometry elliptical orbits . Euclidean geometry Hohmann trajectories UF . . analytic geometry elevation angle Hohmann transfer orbits . . . conics almucantar GS orbits . . . ellipses GS geometry . elliptical orbits RT circles (geometry) Euclidean geometry . . transfer orbits . . angles (geometry) . . interplanetary transfer orbits ellipsoids . elevation angle aphelions DEF Surfaces whose plane sections (cross altitude apogees sections) are all ellipses or circles, or the solid azimuth apsides enclosed by such a surface. Used for Izsak datum (elevation) circular orbits field of view Earth orbits Izsak ellipsoid look angles (tracking) Earth-Mars trajectories symmetrical bodies GS topography Earth-Mercury trajectories ellipsoids eccentric orbits bodies of revolution elevations (drawings) ellipticity ellipticity USE drawings equatorial orbits ogives Euler-Lambert equation low Earth orbits elevator illusion ellipsometers GS psychological effects lunar orbits DEF Instruments for determining the ellipticorbital mechanics illusions ity of polarized light. Used to measure the thick-. . optical illusion PAS ness of very thin transparent films. perigees perihelions elevator illusion GS measuring instruments . optical measuring instruments RT visual perception planetary orbits . . ellipsometers polar orbits elevators (control surfaces) optical equipment satellite orbits . optical measuring instruments airfoils GS solar orbits . ellipsometers elevators (control surfaces) spacecraft orbits ellipsometry control surfaces photometers elevators (control surfaces) polarimeters RT ailerons elliptical plasmas ∞ control Confined non-circular plasmas. ellipsometry elevons (added December 1989) horizontal tail surfaces . charged particles dimensional measurement hydrofoils . . energetic particles ellipsometers stabilizers (fluid dynamics) . . . plasmas (physics) ellipticity ∞ surfaces . elliptical plasmas film thickness corpuscular radiation tabs (control surfaces) ∞ measurement tail assemblies . . energetic particles optical measurement . . . plasmas (physics) tail surfaces polarized light ... elliptical plasmas RT magnetohydrodynamic stability elevators (lifts) elliptic differential equations plasma control elevators (lifts) GS analysis (mathematics) . real variables toroidal plasmas space elevators conveyors . . differential equations escalators elliptical polarization . . . partial differential equations ∞ jacks The polarization of a wave radiated by elliptic differential equations ∞ lifts an electric vector rotating in a plane and simul-. . . . Monge-Ampere equation winches taneously varying in amplitude so as to describe  $RT \, \infty \, equations$ an ellipse. half spaces elevons GS polarization (waves) maximum principle airfoils elliptical polarization GS elevons circular polarization elliptic functions control surfaces magnetoionics elliptic integrals elevons GS analysis (mathematics) RT ailerons . complex variables ellipticity

DEF The amount by which a spheroid difelevators (control surfaces) . . meromorphic functions lateral control . elliptic functions tabs (control surfaces) functions (mathematics) difference in the length of the axes by the length . meromorphic functions of the major axis. elimination . elliptic functions GS shapes elimination Jacobi integral GS ellipticity deletion Weierstrass functions eccentricity attenuation ellipsoids cancellation elliptic integrals ellipsometry decontamination USE elliptic functions elliptical orbits depletion flattening oblate spheroids ∞ discharge elliptical cylinders RT circular cylinders disposal evacuating (transportation) ∞ cylinders evacuating (vacuum) cylindrical bodies elongation angles (geometry) exclusion cylindrical shells deformation exhaust systems exhausting elliptical galaxies ductility

GS celestial bodies

galaxies

disk galaxies

galactic clusters

. elliptical galaxies

local group (astronomy) peculiar galaxies

eccentricity

expansion

mechanical properties

plastic deformation

tensile deformation

stretching superplasticity

Gaussian elimination

pollution

∞ reduction

rejection ∞ separation

stopping

purification

|                | tensile strength   |                 | . aeroembolism  | ~             | systems   |
|----------------|--|-----------------|---|---------------|---|
| elution        |  | RT              | . fat embolisms<br>blood vessels  | emerge        | ncy locator transmitters                              |
| UF             | elutriation  | 101             | clotting  |               | Aircraft distress signal equipment with               |
| RT             | adsorption   |                 | coagulation   |               | beacon on a specific emergency fre-                   |
|                | extraction   |                 | infarction  |               | and used for locating downed aircraft.                |
|                | flushing<br>leaching   | emboss          | ina   |               | is activated by the impact of the crash. transmitters |
|                | purification   | DEF             | Raising in relief on a surface.   |               | . emergency locator transmitters                      |
| ~              | separation   | RT              | braille   |               |   |
|                | washing  |                 |   | emergii<br>RT | ng<br>emission  |
| elutriatio     | on   | embrittl<br>DEF |   | 101           | emissivity  |
| USE            | elution  |                 | The severe loss of ductility or tough-<br>both, of a material, usually a metal or |               | emittance   |
|                |  | alloy.          | ,   | emissio       | an.   |
| elves<br>(adde | ed January 2000)   | GS              | embrittlement   | UF            | emanation   |
|                | Transient air glow events observed   | RT              | . hydrogen embrittlement brittle materials  | GS            | emission  |
|                | km, nearly simultaneously with a strong  | 101             | brittleness   |               | . acoustic emission                                   |
|                | -ground lightning stroke. They often pre-  |                 | degradation   |               | . exhaust emission . light emission                   |
|                | rites, which may occur at lower altitudes illiseconds later. It is believed that elves |                 | time temperature parameter  |               | incandescence   |
|                | result of wave heating by very low   | embryo          | loav  |               | luminescence  |
|                | cy (VLF) radio pulses emitted by the   |                 | biology   |               | bioluminescence                                       |
|                | g discharge current.<br>atmospheric radiation  |                 | diencephalon  |               | cathode glow cathodoluminescence                      |
| 00             | . sky radiation  |                 | differentiation (biology)   |               | chemiluminescence                                     |
|                | elves  |                 | embryos<br>fetuses  |               | electroluminescence                                   |
|                | electromagnetic radiation  |                 | neuroblasts   |               | fluorescence laser induced fluorescence               |
|                | . light (visible radiation) sky radiation  |                 | reproduction (biology)  |               | phosphorescence                                       |
|                | elves  |                 | _   |               | resonance fluorescence                                |
| RT             | atmospheric electricity  | embryo<br>RT    | <b>s</b><br>eggs  |               | x ray fluorescence                                    |
|                | atmospheric ionization   | 111             | embryology  |               | lunar luminescence optical resonance                  |
|                | cloud-to-ground discharges lightning   |                 | fetuses   |               | photoluminescence                                     |
|                | sprites (atmospheric physics)  |                 | seeds   |               | triboluminescence                                     |
|                | thunderstorms  |                 | zygotes   |               | x ray fluorescence                                    |
| e-mail         |  | emerala         |   |               | shock wave luminescence sonoluminescence              |
|                | ed April 2000)   | USE             | beryl   |               | spacecraft glow                                       |
| USE            | electronic mail  | emerge          | nciae   |               | thermoluminescence                                    |
| emanati        | ion  | RT              | accidents   |               | . microwave emission . particle emission              |
| USE            | emission   |                 | disasters   |               | electron emission                                     |
|                |  |                 | fail-safe systems   |               | field emission  |
|                | led atom method  | amarga          | ncy breathing techniques  |               | photoelectric emission                                |
|                | ed February 1998)  A semiempirical calculation method                                  |                 | breathing   |               | secondary emission ion emission                       |
|                | ed by Daw and Baskes for determining   |                 | methodology   |               | neutron emission                                      |
| the ener       | rgetics of atoms in a bulk environment.  |                 | pressure breathing  |               | thermionic emission                                   |
|                | ginal form of the method was based on  |                 | respirators<br>resuscitation  |               | . photoionization<br>. radio emission                 |
|                | functional theory and was intended pri-<br>or tight-packed transition metals. More     |                 | Toddonation   |               | CN emission   |
|                | nodifications have extended the applica-   |                 | ncy landing   |               | hydroxyl emission                                     |
|                | the method to a large number of ele-   |                 | ed March 2002)  |               | radio bursts  |
|                | n the periodic table.  EAM (physical chemistry)  |                 | Unscheduled aircraft or spacecraft necessitated by an unexpected prob-            |               | solar radio bursts type 2 bursts                      |
| O.             | MEAM (physical chemistry)  | lem.            |   |               | type 3 bursts   |
|                | modified embedded atom method  | GS              | landing   |               | type 4 bursts   |
| RT             | alloys   | RT              | . emergency landing abort trajectories  |               | type 5 bursts   |
|                | crystal defects grain boundaries   | IXI             | aircraft accidents  |               | solar radio emission solar radio bursts               |
|                | interatomic forces   |                 | aircraft landing  |               | type 2 bursts   |
|                | metals   |                 | aircraft safety   |               | type 3 bursts   |
| ~              | methodology<br>molecular dynamics  |                 | crash landing engine failure  |               | type 4 bursts type 5 bursts                           |
|                | potential energy   |                 | flight safety   |               | . self sustained emission                             |
|                |  |                 | hard landing  |               | . spectral emission                                   |
|                | ded computer systems   |                 | spacecraft landing  |               | . spontaneous emission                                |
|                | Computer systems physically incorpo-<br>to larger systems whose primary func-          | emerge          | ncy life sustaining systems   |               | . stimulated emission . thermal emission              |
|                | ot data processing.  |                 | support systems   |               | thermionic emission                                   |
| GS             | data processing equipment  |                 | . life support systems  |               | ultraviolet emission                                  |
|                | . computers embedded computer systems  |                 | emergency life sustaining systems   | RT            | . water masers airglow                                |
|                | airborne/spaceborne computers  |                 | AEPS  | 17.1          | atomic recombination                                  |
| RT             | Ada (programming language)   | RT              | Assured Crew Return Vehicle   |               | bursts  |
|                | the m  |                 | environmental control   |               | decay   |
| embedo<br>RT   | aing acceleration protection   |                 | escape capsules floats  | ~             | ∘ discharge<br>efflux                                 |
| 13.1           | encapsulating  |                 | high altitude breathing   |               | ejection  |
|                | insertion  |                 | medical equipment   |               | emerging  |
| ombel!-        | eme  |                 | oxygen supply equipment   |               | emitters  |
| embolis<br>DEF |  |                 | portable life support systems pressurized cabins                                  |               | excitation ionizing radiation                         |
| stream v       | which, when reaching the heart, cause it   |                 | protective clothing   |               | irradiation   |
|                | mall amounts are resorbed and cause no   |                 | safety  |               | nuclear reactions                                     |
| sympton<br>GS  | ns.<br>embolisms   |                 | safety devices<br>survival equipment  |               | pair production quantum theory                        |
| 33             | CHINOHIBING  |                 | Julyival equipment  |               | quantum meory   |

| ۰       | ∘ radiation  |        | optical measurement           | ۰         | ∘ tests                                     |
|---------|--|--------|-------------------------------|-----------|---|
|         | radioactive decay  |        | radiance                      |           |   |
|         | radioactivity  |        | radiant flux density          | emptyii   |   |
|         | releasing  |        | Stefan-Boltzmann law          | RT        | disposal                                    |
|         | selection rules (nuclear physics)                          |        | surface properties            |           | dumping                                     |
|         | sputtering   |        | temperature                   |           | ejection                                    |
|         |  |        | thermal emission              |           | expulsion                                   |
|         | on spectra   |        |                               |           | expulsion bladders                          |
| SN      | (LIMITED TO ELECTROMAGNETIC<br>RADIATION OF ANY WAVELENGTH |        | ographs                       |           | jettisoning                                 |
|         | EMITTED FROM EXCITED                                       | USE    | actinometers                  |           | materials handling                          |
|         | MATTEREXCLUDES PARTICLE                                    |        | recording instruments         |           | releasing                                   |
| DEE     | SPECTRA)   |        |                               |           | removal                                     |
|         | The spectra of wavelengths and rela-                       | emitta | nce                           |           | spilling                                    |
|         | nsities of electromagnetic radiation emit-                 | RT     | emerging                      |           | spreading                                   |
|         | a given radiator. Each radiating sub-                      |        | emissivity                    |           | unloading                                   |
|         | has a unique, characteristic emission                      |        | flux (rate)                   |           |   |
|         | m, just as every medium of transmission                    |        | luminosity                    |           | 050 computer                                |
|         | ndividual absorption spectrum.                             |        | luminous intensity            | GS        | data processing equipment                   |
| GS      | spectra  |        | optical properties            |           | . computers                                 |
|         | . radiation spectra  |        | radiance                      |           | digital computers                           |
| рт      | emission spectra   |        | radiant flux density          |           | EMR 6050 computer                           |
| RT      | absorption spectra   |        | spectral emission             |           |   |
|         | atomic recombination                                       |        | thermodynamic properties      | emulsio   |   |
|         | Balmer series  |        |                               | DEF       | Suspensions of fine particle or glob        |
|         | blue shift   | emitte | rs                            |           | one or more liquids in another liquid.      |
|         | continuous radiation                                       | GS     | emitters                      | GS        | mixtures                                    |
|         | D lines  |        | . thermionic cathodes         |           | . dispersions                               |
|         | electromagnetic spectra                                    |        | . thermionic emitters         |           | emulsions                                   |
|         | electron spectroscopy                                      | RT     | electron emission             |           | photographic emulsions                      |
|         | electronic spectra   | 131    | emission                      |           | nuclear emulsions                           |
|         | flame spectroscopy   |        | semiconductors (materials)    | RT        | Brownian movements                          |
|         | gamma ray spectra  |        | thermophotovoltaic conversion |           | colloids                                    |
|         | gamma rays   |        | mermophotovoltaic conversion  |           | slurries                                    |
|         | H alpha line   |        |                               |           | solutions                                   |
|         | H beta line  |        | onal factors                  |           |   |
|         | H gamma line   | RT     | angina pectoris               | enamel    | S   |
|         | H II regions   |        | detachment                    | DEF       | Thin ceramic coatings, usually of high      |
|         | H lines  |        | disorders                     | glass co  | ontent, applied to a substrate, generally a |
|         | hydroxyl emission  |        | dithers                       | metal.    |   |
|         | infrared spectra   |        | feedback                      | GS        | coatings                                    |
|         | K lines  |        | frustration                   |           | . enamels                                   |
|         | laser-induced breakdown                                    |        | human reactions               |           | finishes                                    |
|         | spectroscopy   |        | moods                         |           | . enamels                                   |
|         | line spectra   |        | panic                         | RT        | porcelain                                   |
|         | Lyman spectra  |        | phobias                       |           |   |
|         | molecular spectra  |        | psychological factors         | enantio   | meric compounds                             |
|         | molecular spectroscopy                                     |        | psychology                    |           | ed August 1998)                             |
|         | nuclear radiation  |        | sensory feedback              |           | enantiomers                                 |
|         | optical emission spectroscopy                              |        | sensory stimulation           |           |   |
|         | optical transition   |        |                               | enantio   | mers  |
|         | Paschen series   | emotio | ons                           | (add      | ed August 1998)                             |
|         | photoluminescent bands                                     |        | ∞ depression                  |           | Isomeric pairs whose crystalline forms      |
|         | plasma spectra   |        | fear                          |           | cular structures are non-superimposable     |
|         | Raman spectra  |        | fear of flying                | mirror ir |   |
|         | Rydberg series   |        | frustration                   | UF        | enantiomeric compounds                      |
|         | Schumann-Runge bands                                       |        | human behavior                |           | enantiomorphs                               |
|         | solar spectra  |        | laughing                      | GS        | isomers                                     |
|         | solar spectra  |        | moods                         | 00        | . enantiomers                               |
|         | spectral signatures  |        | panic                         | RT        | chirality                                   |
|         | spectrum analysis  |        | psychological effects         | 111       | crystal structure                           |
|         | •  |        | psychology                    |           | isomorphism                                 |
|         | spontaneous emission                                       |        |                               |           | molecular structure                         |
|         | stellar spectra  |        | sensory feedback              |           | stereochemistry                             |
|         | Swan bands   |        |                               |           | •   |
|         | symbiotic stars  |        | electromagnetism)             |           | symmetry                                    |
|         | ultraviolet emission                                       |        | ded May 1997)                 | anantia   | na a rm la a                                |
|         | ultraviolet spectra  | USE    | electromagnetic pulses        | enantio   |   |
|         | Vegard-Kaplan bands  |        |                               |           | ed August 1998)                             |
|         | visible spectrum   | emper  | nage                          | USE       | enantiomers                                 |
|         | x ray stars  | ÚSE    | tail assemblies               |           |   |
|         | x rays   |        |                               |           | ulated microcircuits                        |
|         |  | emphy  | /sema                         | DEF       | Microelectronic circuits enclosed in        |
| emissiv | -  | GS     | diseases                      | plastic.  |   |
| DEF     |  | 63     | . respiratory diseases        | GS        | circuits                                    |
|         | tance of a specimen of the material that                   |        | emphysema                     |           | . integrated circuits                       |
|         | enough to be completely opaque and                         | рт     |                               |           | encapsulated microcircuits                  |
| has an  | optically smooth surface. Used for pho-                    | RT     | occupational diseases         | RT        | microelectronics                            |
| toemiss | ivity.   |        |                               |           |   |
| UF      | photoemissivity  |        | yee relations                 | encaps    |   |
| GS      | thermodynamic properties                                   | RI     | ∞ cooperation                 | GS        | coating                                     |
|         | . thermophysical properties                                |        | human relations               |           | . encapsulating                             |
|         | emissivity   |        | personnel                     |           | coatings                                    |
| RT      | black body radiation                                       |        | personnel development         |           | . encapsulating                             |
|         | brightness   |        | personnel management          | RT        | canning                                     |
|         | emerging   |        | position (title)              |           | electronic packaging                        |
|         | emittance  |        | production management         |           | electrostatic bonding                       |
|         | hohlraums  |        | retirement                    |           | embedding                                   |
|         | incandescence  |        | wage surveys                  | ۰         | ∘ imbeddings                                |
|         | luminosity   |        |                               |           | materials handling                          |
|         | nongray atmospheres  | emplo  | yment                         |           | packaging                                   |
|         | nongray gas  | RT     | personnel selection           |           | plastic coatings                            |
|         | · J·-·/ J-·-   | 131    | 1                             |           | ,   |

|          | potting compounds                        |         | torque sensors (robotics)               |         | thyroxine                               |
|----------|--|---------|---|---------|---|
|          | protective coatings                      |         | . , ,                                   |         | insulin                                 |
|          | sealing                                  | end mo  | raines                                  |         |   |
|          | sheaths                                  | USE     | glacial drift                           | andocr  | ine systems                             |
|          | Silcatio                                 | 002     | giadiai aint                            |         | •                                       |
|          |  | end pla | tos                                     | RT      | endocrinology                           |
| Encelad  |  | GS      | structural members                      |         | glands (anatomy)                        |
| DEF      | A satellite of Saturn orbiting at a mean | 00      | . plates (structural members)           |         | hormones                                |
|          | of 238,000 kilometers.                   |         |   |         | mineral metabolism                      |
| GS       | celestial bodies                         | DT      | end plates                              | ۰       | ∘ systems                               |
|          | . natural satellites                     | RT      | anisotropic plates                      |         |   |
|          | icy satellites                           |         | bulkheads                               | endocr  | inology                                 |
|          | Énceladus                                |         | circular plates                         | GS      | medical science                         |
|          | Saturn satellites                        |         | closures                                |         | . endocrinology                         |
|          | Enceladus                                |         | flat plates                             | RT      | endocrine glands                        |
| RT       | Saturn (planet)                          |         | shallow shell equations                 | 131     | endocrine systems                       |
| 111      | Catain (planet)                          |         |   |         | chadeline systems                       |
|          |  | endang  | ered species                            |         | I                                       |
| encepha  |  | DEF     | Living organisms (except plants)        | endolyı |   |
| GS       | diseases                                 |         | populations have diminished to such low | GS      | body fluids                             |
|          | . encephalitis                           |         | hat survival may require extraordinary  |         | . endolymph                             |
| RT       | bacterial diseases                       |         | ation procedures. Changes in size and   | RT      | ear                                     |
|          | brain                                    |         | of the ecology are considered the cause |         |   |
|          | viral diseases                           |         | ossible extinction of some species.     | endopla | asmic reticulum                         |
|          |  | RT      | animals                                 | GŚ      | organelles                              |
| Encke o  | omot                                     | IXI     |   |         | . endoplasmic reticulum                 |
|          | A very faint comet with a periodicity of |         | birds                                   |         | sarcoplasmic reticulum                  |
|          | , ,                                      |         | ecology                                 | RT      | cells (biology)                         |
|          | rs which is the shortest of any known    |         | ecosystems                              | 111     | cytoplasm                               |
| comet.   |  |         | habitats                                |         | Суторіазіті                             |
| GS       | celestial bodies                         |         | pollution                               |         |   |
|          | . comets                                 |         | toxicity                                | endosc  |   |
|          | Encke comet                              |         | wildlife                                | UF      | borescopes                              |
| RT       | Comet Nucleus Tour                       |         |   | GS      | medical equipment                       |
|          |  | Endeav  | our (orbiter)                           |         | . endoscopes                            |
| Encke n  | aathad                                   |         | ed June 1989)                           |         | optical equipment                       |
|          |  | UF      | Space Shuttle Orbiter 105               |         | . endoscopes                            |
| K1 ∞     | methodology                              | GS      | manned spacecraft                       | RT      | inspection                              |
|          |  | 00      | . space shuttles                        |         |   |
| enclosu  | re                                       |         | •                                       | endoth  | olium                                   |
| RT ∞     | casing                                   |         | Space Shuttle orbiters                  |         |   |
|          | housings                                 |         | Endeavour (orbiter)                     | GS      | tissues (biology)                       |
|          | packaging                                |         | reentry vehicles                        |         | endothelium                             |
|          | 1 3 3                                    |         | . recoverable spacecraft                | RT      | blood vessels                           |
|          |  |         | reusable spacecraft                     |         | cells (biology)                         |
| enclosu  |  |         | space shuttles                          |         |   |
| RT       | air locks                                |         | Space Shuttle orbiters                  | endoth  | ermic fuels                             |
|          | asteroid capture                         |         | Endeavour (orbiter)                     | GS      | fuels                                   |
| 00       | barriers                                 | RT      | Challenger (Orbiter)                    |         | . chemical fuels                        |
|          | biopaks                                  | ۰       | ∘ spacecraft                            |         | endothermic fuels                       |
|          | closures                                 |         | 1                                       | RT      | cryogenic rocket propellants            |
|          | compartments                             | endfire | arrays                                  | 131     | double base propellants                 |
| 00       | containers                               |         | arrays                                  |         |   |
|          | coverings                                | 00      | . antenna arrays                        |         | gaseous rocket propellants              |
|          | doghouses (electronics)                  |         | linear arrays                           |         | hydrocarbon fuels                       |
| 00       | envelopes                                |         | endfire arrays                          |         | propellant decomposition                |
|          | housings                                 |         |   |         |   |
|          | pens                                     | БТ      | Yagi antennas                           | endoth  | ermic reactions                         |
|          | perforated shells                        | RT      | backfire antennas                       | GS      | chemical reactions                      |
|          | · · · · · · · · · · · · · · · · · · ·    |         | directional antennas                    |         | . endothermic reactions                 |
|          | pressure chambers                        |         |   | RT      | association reactions                   |
|          | protectors                               |         | ine glands                              |         | exothermic reactions                    |
|          | rooms                                    | GS      | anatomy                                 |         | heat sinks                              |
|          | safety devices                           |         | . glands (anatomy)                      |         | pyrolysis                               |
|          | shells (structural forms)                |         | endocrine glands                        |         | thermal decomposition                   |
|          | shielding                                |         | adrenal gland                           |         | thermal accomposition                   |
|          | shipyards                                |         | gonads                                  |         |   |
|          | walls                                    |         | ovaries                                 | endoto  |   |
|          |  |         | testes                                  | GS      | poisons                                 |
| encoder  | 9  |         | hypothalamus                            |         | . endotoxins                            |
|          | coders                                   |         | pancreas                                |         | toxins and antitoxins                   |
| UUL      | coders                                   |         | paristodo                               |         | . endotoxins                            |
|          |  |         | pineal gland                            | RT      | bacteriology                            |
| encodin  |  |         | pituitary gland                         |         | toxicology                              |
| USE      | coding                                   |         | thymus gland                            |         |   |
|          |  |         |   | endrin  |   |
| encount  | ers                                      | БТ      | thyroid gland                           | GS      | epoxy compounds                         |
|          | crashes                                  | RT      | endocrinology                           | 03      | . endrin                                |
|          | scattering                               |         | estrogens                               |         |   |
|          | Scattering                               |         |   |         | organic compounds                       |
|          |  | endocr  | ine secretions                          |         | . cyclic compounds                      |
| end effe |  | GS      | secretions                              |         | . heterocyclic compounds                |
| UF       | fingers (robotics)                       |         | . endocrine secretions                  |         | endrin                                  |
|          | hands (robotics)                         |         | hormones                                | RT      | insecticides                            |
|          | mechanical fingers                       |         | corticosteroids                         |         |   |
|          | mechanical hands                         |         | aldosterone                             | end-to- | end data systems                        |
|          | robot fingers                            |         | hydroxycorticosteroid                   |         | Comprehensive data systems which        |
|          | robot hands                              |         | cortisone                               |         | strate the processing of sensor data to |
| RT       | effectors                                |         | glucocorticoids                         |         | r thus reducing data fragmentation.     |
| 17.1 ∞   |  |         |   | GS      | end-to-end data systems                 |
|          | manipulators                             |         | estrogens                               | GS      |   |
|          | robot arms                               |         | hypertensin                             | 5.7     | . needs (data system)                   |
|          | robot dynamics                           |         | pituitary hormones                      | RT •    | ∘ data                                  |
|          | robotics                                 |         | adrenocorticotropin (ACTH)              |         | data acquisition                        |
|          | robots                                   |         | vasopressins                            |         | data processing                         |
|          | tactile sensors (robotics)               |         | prostaglandins                          |         | data systems                            |

| ∞ systems   | stellar winds  | Bernstein energy principle                 |
|---|--|--|
|   | dusty plasmas  | binding energy                             |
| ∞ endurance   | spherical plasmas  | chemical energy                            |
| SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | thermal plasmas  | commercial energy                          |
| LISTED BELOW)   | toroidal plasmas   | dark energy                                |
| RT durability   | . corpuscular radiation energetic particles                                    | domestic energy                            |
| fatigue (biology)   | electrons  | electron energy<br>energy conservation     |
| fatigue (materials)   | conduction electrons   | energy conversion efficiency               |
| human performance<br>human tolerances                           | free electrons   | energy of formation                        |
| Human tolerances  | high energy electrons  | enthalpy                                   |
| enemy personnel   | relativistic electron beams  | entropy                                    |
| GS personnel  | hot electrons  | exergy                                     |
| enemy personnel   | N electrons  | flux (rate)                                |
| RT armed forces (foreign)                                       | negatrons  | flux density                               |
| Francis Bartisla Francis A                                      | photoelectrons   | free energy                                |
| Energetic Particle Explorer A USE Explorer 12 satellite         | pi-electrons<br>polarons   | gravitational binding energy<br>heat       |
| OOL Explorer 12 Satellite                                       | solar electrons  | hydrogen-based energy                      |
| Energetic Particle Explorer B                                   | nuclei (nuclear physics)   | industrial energy                          |
| USE Explorer 14 satellite                                       | alpha particles  | interfacial energy                         |
| •   | deuterons  | internal energy                            |
| Energetic Particle Explorer C                                   | even-even nuclei   | kinetic energy                             |
| USE Explorer 15 satellite                                       | heavy nuclei   | lattice energy                             |
| Energetic Particle Explorer D                                   | hypernuclei  | molecular energy levels                    |
| USE Explorer 26 satellite                                       | odd-even nuclei  | nuclear binding energy                     |
| COL Explorer 20 datemite  | odd-odd nuclei   | particle energy                            |
| energetic particles   | tritons  | potential energy<br>proton energy          |
| DEF Charged particles having energies                           | plasmas (physics)<br>argon plasma  | radiant heating                            |
| equaling or exceeding a hundred MeV                             | beta particles   | seismic energy                             |
| GS particles  | boundary layer plasmas   | solar energy                               |
| . charged particles   | cold plasmas   | solar total energy systems                 |
| energetic particles   | collisional plasmas  | stacking fault energy                      |
| electrons<br>conduction electrons                               | strongly coupled plasmas   | strain energy methods                      |
| free electrons  | collisionless plasmas  | surface energy                             |
| high energy electrons   | cosmic plasma  | thermal energy                             |
| relativistic electron beams                                     | cylindrical plasmas  | thermonuclear power generation             |
| hot electrons   | dense plasmas<br>plasma focus  | transportation energy waterwave energy     |
| N electrons   | strongly coupled plasmas   | waterwave energy<br>work                   |
| negatrons   | electron plasma  | WOIR                                       |
| photoelectrons  | electron-positron plasmas  | energy absorption                          |
| pi-electrons  | elliptical plasmas   | UF nonreflection                           |
| polarons  | helium plasma  | GS energy absorption                       |
| solar electrons<br>nuclei (nuclear physics)                     | high temperature plasmas   | . moderation (energy absorption)           |
| alpha particles   | hydrogen plasma  | thermalization (energy absorption)         |
| deuterons   | deuterium plasma   | neutron thermalization                     |
| even-even nuclei  | laser plasmas metallic plasmas   | . radiation absorption                     |
| heavy nuclei  | cesium plasma  | electromagnetic absorption                 |
| hypernuclei   | uranium plasmas  | auroral absorption                         |
| odd-even nuclei   | microplasmas   | gamma ray absorption infrared absorption   |
| odd-odd nuclei  | nitrogen plasma  | microwave absorption                       |
| tritons   | nonequilibrium plasmas   | multiphoton absorption                     |
| plasmas (physics)   | nonuniform plasmas   | photoabsorption                            |
| argon plasma beta particles                                     | oxygen plasma  | polar cap absorption                       |
| boundary layer plasmas  | rarefied plasmas   | ultraviolet absorption                     |
| cold plasmas  | relativistic plasmas rotating plasmas  | x ray absorption                           |
| collisional plasmas   | semiconductor plasmas  | molecular absorption                       |
| strongly coupled plasmas  | space plasmas  | self absorption                            |
| collisionless plasmas   | solar wind   | . thermal absorption polar cap absorption  |
| cosmic plasma   | stellar winds  | RT absorbers (materials)                   |
| cylindrical plasmas   | dusty plasmas  | ∞ absorption                               |
| dense plasmas<br>plasma focus                                   | spherical plasmas  | damping                                    |
| strongly coupled plasmas  | thermal plasmas  | energy conversion efficiency               |
| electron plasma   | toroidal plasmas   | gamma ray absorptiometry                   |
| electron-positron plasmas                                       | RT Advanced Composition Explorer galactic cosmic rays                          | heat sinks                                 |
| elliptical plasmas  | radio jets (astronomy)   | infrared radiation                         |
| helium plasma   | solar cosmic rays  | light (visible radiation)                  |
| high temperature plasmas  |  | photon absorptiometry<br>shock absorbers   |
| hydrogen plasma   | Energiya launch vehicle  | sound transmission                         |
| deuterium plasma  | (added April 1995)   | vibration isolators                        |
| laser plasmas<br>metallic plasmas                               | GS launch vehicles   |  |
| cesium plasma   | . heavy lift launch vehicles   | energy absorption films                    |
| uranium plasmas   | Energiya launch vehicle  | GS thin films                              |
| microplasmas  | RT international cooperation   | . energy absorption films                  |
| nitrogen plasma   | Russian Space Program  | RT ∞ absorption                            |
| nonequilibrium plasmas  | space commercialization  | aluminum oxides                            |
| nonuniform plasmas  | ~ energy   | coatings                                   |
| oxygen plasma   | ∞ energy<br>SN (USE OF A MORE SPECIFIC TERM IS                                 | direct power generators                    |
| rarefied plasmas  | RECOMMENDEDCONSULT THE TERMS   | Golay detector cells                       |
| relativistic plasmas  | LISTED BELOW)  | monomolecular films                        |
| rotating plasmas  | DEF Any quantity with dimensions which can be represented as mass times length | photoelectric cells                        |
| semiconductor plasmas space plasmas                             | squared divided by time squared.   | photothermal conversion selective surfaces |
| space plasmas<br>solar wind                                     | RT activation energy   | semiconducting films                       |
| Solai Willu   | 111 douvation chargy   | Schilochadoling Illins                     |

thermochromic coatings . energy conversion efficiency GS level (quantity) carrier transport (solid state) . energy levels energy bands ∞ conversion . . atomic energy levels energy bands direct power generators . . electron states . Bloch band . . ground state ∞ energy conduction bands energy absorption . . molecular energy levels forbidden bands engines . . . intermolecular forces RT ∞ bands exergy . . . rotational states electronic structure fuel cells . . . vibrational states excitons . yrast state ∞ generators laser windows atomic excitations motors quantum wells atomic structure open circuit voltage spectral bands photothermal conversion electron tunneling windows (intervals) power conditioning electronic structure power factor controllers excitation quantum efficiency energy budgets Fermi surfaces Quantitative descriptions of the total Redox cells molecular excitation energy exchange into and out of a given physispectrophotovoltaics nuclear capture thermophotovoltaic conversion tide powered generators transducers cal or ecological system; may include radiation nuclear models heat, kinetic, and biological process. nuclear quadrupole resonance nuclear spin GS energy budgets Earth radiation budget volumetric efficiency nuclear structure . heat budget waterwave energy conversion population inversion . atmospheric heat budget quantum numbers RT atmospheric energy sources energy converters quantum theory ∞ budgets USE direct power generators exergy energy density
USE flux density energy loss energy conservation USE energy dissipation conservation energy conservation energy dissipation energy methods RT ∞ energy The difference between energy input structural analysis and output as a result of transfer of energy energy policy . energy methods between two points. Used for energy loss. exergy power factor controllers Bernstein energy principle energy loss strain energy methods residential energy dissipation GS Castigliano variational theorem . energy dissipation dielectric loss resource allocation matrices (mathematics) RT resources ∞ methodology thermochromic coatings exergy stress analysis friction energy consumption insertion loss consumption GS Lagrange similarity hypothesis energy of formation energy consumption losses GS chemical energy nonadiabatic theory coal utilization . energy of formation coal utilization commercial energy domestic energy ∞ energy sources ∞ power loss  $\mathsf{RT} \mathrel{\circ}= \mathsf{energy}$ traveling charge free energy molecular energy levels energy distribution fuel consumption distribution (property)
energy distribution industrial energy energy policy energy conversion . . spectral energy distribution equipartition theorem policies DEF The change of a working substance or natural power into a more useable form of energy such as electricity or mechanical motion. . energy policy flux density abundance force distribution availability GS energy conversion integrated energy systems coal biomass energy production geothermal energy conversion quantum mechanics coal gasification statistical mechanics coal liquefaction . ocean thermal energy conversion coal utilization . satellite solar energy conversion Energy Efficiency Transport program
USE ACEE program conservation . solar energy conversion crude oil . . photothermal conversion depletion energy equipartition ... thermophotovoltaic conversion ∞ development . . photovoltaic conversion USE equipartition theorem Earth resources ecology economic factors ... thermophotovoltaic conversion energy exchange ... solar total energy systems . waterwave energy conversion USE energy transfer energy conservation cogeneration fuel oils commercial energy energy gaps (solid state) fuels A range of forbidden energies in the hydrocarbon fuels land use ∞ conversion band theory of solids. Used for bandgap. direct power generators domestic energy bandgap lianite geothermal energy extraction GS logistics hydrogen production energy gaps (solid state) mining hydrothermal systems RT band structure of solids nuclear energy industrial energy blue shift nuclear fuels integrated energy systems electronic structure oil exploration laser power beaming MODFETS oils modulation doping lignite operating costs organic wastes (fuel conversion) quantum well lasers pollution power beaming quantum wells refining power conditioning solid state renewable energy satellite solar power stations solar ponds (heat storage) ∞ solid state physics reserves resource allocation solar sea power plants energy levels resources space industrialization DEF Any one of different values of energy safety

which a particle, atom, or molecule may adopt under conditions where the possible values are

restricted by quantizing conditions. Used for electronic levels.

electronic levels

transportation energy

energy conversion efficiency

GS efficiency

waste energy utilization

## energy requirements

RT ∞ energy sources fuel consumption

geothermal energy extraction ∞ power supplies tem to transfer heat from the engine to the heat engines radiator. hydrocarbon fuel production energy sources GS coolants (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) atmospheric energy sources auxiliary power sources hydrogen-based energy . engine coolants lignite cooling magnetic energy storage cooling systems offshore energy sources oil recovery biomass energy production engine design phosphoric acid fuel cells electric batteries electric generators electron sources engine design rocket engine design aircraft design photoelectrochemical devices GS photothermal conversion quantum efficiency energy consumption energy requirements energy technology renewable energy computer aided design ∞ design residential energy helicopter design solar cooling solar energy conversion solar houses geothermal resources missile design heat sources lithium sulfur batteries nozzle design space cooling (buildings) product development ocean thermal energy conversion reactor design Trombe walls plasma power sources spacecraft design waste heat point sources Stirling engines propellants volumetric efficiency energy transfer rectifiers energy exchange renewable energy GS energy transfer spacecraft power supplies engine failure linear energy transfer (LET) tidepower GS failure acoustic coupling waterwave energy conversion . engine failure aborted missions antenna couplers coupling circuits energy spectra ∞ cut-off cyclotron resonance spectra emergency landing electron pumping . energy spectra ingestion (engines) gas transport . . electronic spectra ∞ stalling gas-liquid interactions . neutron spectra heat transfer absorption spectra Heisenberg theory electromagnetic spectra engine inlets Lagrange similarity hypothesis gamma ray astronomy GRIST (telescope) GS intake systems mass transfer . air intakes momentum transfer . engine inlets mass spectra nonadiabatic conditions RT bypass ratio molecular spectra nonisothermal processes cavity flow plasma spectra nuclear pumping power spectra ∞ diffusers plasma heating Poynting theorem radiative transfer radiation spectra hypersonic inlets inlet airframe configurations shock spectra spectral energy distribution spectrophotovoltaics inlet nozzles terminal ballistics inlet temperature internal compression inlets transferring vibrational spectra wave rotors nacelles energy storage engine airframe integration energy storage devices DEF Physics of the interface between the engine monitoring instruments GS energy storage measuring instruments engine and the airframe. . electric energy storage aerodynamic characteristics engine monitoring instruments . heat storage aerodynamic configurations fault detection . magnetic energy storage aircraft design flight instruments capacitors aircraft engines systems health monitoring compressed air airframes electrets electric batteries engine noise engine analyzers flywheels GS elastic waves fuel cells GS measuring instruments . sound waves fuels . analyzers . . noise (sound) . . engine analyzers geothermal energy utilization ... engine noise heat sources ... rocket engine noise inductors engine control RT aircraft noise lead acid batteries DEF Any control for regulating the power aircraft runup and speed of an engine, such as the throttle, mixture control, manifold pressure regulator, fuel nickel hydrogen batteries ∞ nuclear energy jet aircraft noise propeller noise potential energy pressure control, or supercharger control. quiet engine program Redox cells engine control GS regenerators rocket engine control roadway powered vehicles turbojet engine control engine parts space station power supplies air start RT carburetors aircraft control springs (elastic) clutches ∞ storage automatic control combustion chambers superconductors (materials) combustion control ∞ components ∞ control dump combustors energy storage devices
USE energy storage electric control flywheels flight instruments internal combustion engines fuel control pistons energy technology hydraulic control retirement for cause technologies manual control rocket linings energy technology pneumatic control spare parts . geothermal technology remote control turbine blades biomass energy production spacecraft control turbine wheels coal utilization speed control valves combined cycle power generation temperature control wave rotors Earth resources thrust control variable stream control engines electrostatic bonding ∞ energy sources fuel cell power plants engine primers

engine coolants
DEF Liquids used in an engine cooling sys-

RT internal combustion engines

∞ primers

gas recovery

|          | starting  | RT     | circuit diagrams   | turbofan engines   |
|----------|---|--------|--|--|
| enaine   | relight (in-flight)   |        | descriptive geometry                                       | Bristol-Siddeley BS 53 engine  |
|          | air start   |        | <ul><li>design</li><li>dimensions</li></ul>                | CF-700 engine  |
|          |   |        | graphic arts   | convertible fan-shaft engines J-97 engine                              |
|          | starters  |        | layouts  | TF-30 engine   |
| GS       | _   |        | lofting  | TF-34 engine   |
| RT       | . engine starters   |        | reproduction (copying)                                     | TF-41 engine   |
| KI       | engines internal combustion engines                           | ongino | oring management   | turboprop engines  |
|          | jet engines   |        | ering management<br>management                             | T-34 engine  |
|          | ,g  | 00     | . industrial management                                    | T-38 engine  |
|          | testing laboratories  |        | engineering management                                     | T-53 engine  |
| GS       |   | RT     | allocations  | T-55 engine  |
|          | . engine testing laboratories test facilities                 |        | ∘ budgets  | T-56 engine<br>T-63 engine   |
|          | . engine testing laboratories                                 |        | goals  | T-63 engine  |
| RT       | engines   |        | manpower priorities  | T-74 engine  |
|          | Ü   |        | research management  | T-76 engine  |
| engine   |   |        | resource allocation  | T-78 engine  |
| GS       | engine tests  |        | resources  | turboramjet engines  |
|          | . cold flow tests . prefiring tests                           |        |  | . aircraft engines   |
|          | . space electric rocket tests                                 |        | ering test reactors  | convertible fan-shaft engines helicopter engines                       |
|          | . static firing   |        | ETR (reactors) nuclear reactors                            | J-52 engine  |
| RT       | aircraft runup  | 00     | . engineering test reactors                                | J-58 engine  |
|          | altitude tests  | RT     | reactor design   | J-97 engine  |
|          | captive tests   |        | reactor technology   | T-34 engine  |
|          | flight tests  |        | To Table October   | T-38 engine  |
|          | fuel tests full scale tests                                   |        | ering Test Satellites                                      | T-55 engine  |
|          | ground tests  | SN     | ed October 1997)<br>(LIMITED TO THE JAPANESE ETS           | T-63 engine<br>T-76 engine   |
|          | lubricant tests   |        | SERIES OF SATELLITES)                                      | T-78 engine  |
|          | missile tests   | UF     | ETS series satellites                                      | TF-30 engine   |
|          | nondestructive tests  | GS     | artificial satellites                                      | TF-34 engine   |
|          | prelaunch tests   |        | . Engineering Test Satellites                              | TF-41 engine   |
|          | propellant tests  |        | Japanese spacecraft . Engineering Test Satellites          | variable cycle engines   |
|          | propulsive efficiency<br>rocket engine design                 |        | . Engineering root outcomes                                | variable stream control engines  |
|          | rocket test facilities  | engine | ers  | <ul><li>external combustion engines</li><li>Stirling engines</li></ul> |
|          | SERT 1 spacecraft   |        | ed November 1992)  | . internal combustion engines  |
|          | SERT 2 spacecraft   | GS     | manpower   | diesel engines   |
|          | static tests  |        | . engineers<br>personnel                                   | gas turbine engines  |
|          | Stirling engines  |        | . engineers  | hydrogen engines   |
|          | test firing   | RT     |  | jet engines  |
|          | test stands   |        | scientists   | T-58 engine  |
|          | testing time<br>∞ tests                                       |        |  | ramjet engines integral rocket ramjets                                 |
|          | vibration tests   | engine |  | low volume ramjet engines  |
|          |   | SN     | (LIMITED TO MACHINES WITH<br>SELF-CONTAINED POWER SOURCES  | pulsejet engines   |
| ∞ engine | _   |        | FOR CONTINUOUS OPERATIONSEE                                | supersonic combustion ramjet   |
| SN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  |        | MOTORS FOR MACHINES UTILIZING EXTERNAL POWER SOURCES FOR   | engines  |
|          | LISTED BELOW)   |        | NORMAL OPERATION)  | turboramjet engines  |
|          | The useful application of scientific or                       | DEF    |  | turbojet engines   |
|          | ystematic knowledge of the properties of                      |        | especially heat energy, into work. Used generator engines. | Bristol-Siddeley Olympus 593   |
|          | and the sources of energy in nature. aeronautical engineering |        | gas generator engines                                      | engine<br>Bristol-Siddeley Viper engine                                |
| IXI      | aerospace engineering   | GS     | engines  | ducted fan engines   |
|          | aircraft production costs                                     |        | . air breathing engines                                    | J-33 engine  |
|          | anthropometry   |        | gas turbine engines  | J-34 engine  |
|          | bioengineering  |        | hydrogen engines   | J-47 engine  |
|          | bioinstrumentation  |        | jet engines  | J-52 engine  |
|          | biometrics  |        | T-58 engine ramjet engines                                 | J-57 engine<br>J-58 engine   |
|          | biotelemetry  |        | integral rocket ramjets                                    | J-65 engine  |
|          | body measurement (biology) chemical engineering               |        | low volume ramjet engines                                  | J-69-T-25 engine   |
|          | concurrent engineering  |        | pulsejet engines   | J-71 engine  |
|          | electrical engineering  |        | supersonic combustion ramjet                               | J-73 engine  |
|          | environmental engineering                                     |        | engines  | J-75 engine  |
|          | human factors engineering                                     |        | turboramjet engines  | J-79 engine  |
|          | man machine systems   |        | turbojet engines   | J-85 engine  |
|          | mechanical engineering  |        | Bristol-Siddeley Olympus 593 engine                        | J-93 engine<br>RA-28 engine  |
|          | production engineering reactor technology                     |        | Bristol-Siddeley Viper engine                              | turbofan engines   |
|          | reliability engineering                                       |        | ducted fan engines   | Bristol-Siddeley BS 53 engine  |
|          | software engineering  |        | J-33 engine  | CF-700 engine  |
|          | structural engineering  |        | J-34 engine  | convertible fan-shaft engines  |
|          | systems engineering   |        | J-47 engine  | J-97 engine  |
|          | underwater engineering  |        | J-52 engine  | TF-30 engine   |
|          | value engineering   |        | J-57 engine  | TF-34 engine   |
| ongino   | ering develonment   |        | J-58 engine<br>J-65 engine                                 | TF-41 engine turboprop engines   |
|          | ering development<br>product development                      |        | J-69-T-25 engine   | T-34 engine  |
| OOL      | p. Jaudi advolopillolit                                       |        | J-71 engine  | T-34 engine  |
| engine   | ering drawings  |        | J-73 engine  | T-53 engine  |
| ŪF       | mechanical drawings   |        | J-75 engine  | T-55 engine  |
| GS       | documents   |        | J-79 engine  | T-56 engine  |
|          | . drawings engineering drawings                               |        | J-85 engine  | T-63 engine  |
|          |   |        |  |  |
|          | blueprints  |        | J-93 engine<br>RA-28 engine                                | T-64 engine<br>T-74 engine   |

| T-76 engine  | nuclear lighthulb angines  | T.55 angina  |
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| •  | nuclear lightbulb engines  | T-55 engine<br>T-56 engine   |
| T-78 engine  | restartable rocket engines   | T-30 engine  |
| turboramjet engines  | . retrorocket engines  |  |
| helicopter engines   | BE-3 engine  | T-64 engine  |
| rotary engines   | reusable rocket engines  | T-74 engine  |
| Wankel engines   | solid propellant rocket engines  | T-76 engine  |
| . JATO engines   | Algol engine   | T-78 engine  |
| . Marguardt R4D engine   | apogee boost motors  | turboramjet engines  |
| piston engines   | ASROC engine   | RT auxiliary propulsion  |
| diesel engines   | Hercules engine  | carburetors  |
| •  | S S S S S S S S S S S S S S S S S S S  | combustion chambers  |
| free-piston engines  | M-46 engine  | displacement   |
| Stirling engines   | M-55 engine  | energy conversion efficiency   |
| rocket engines   | M-56 engine  | engine starters  |
| booster rocket engines   | M-57 engine  | engine testing laboratories  |
| AJ-10 engine   | Nike booster rocket engines  | exhaust systems  |
| Algol engine   | P-1 engine   | expendable stages (spacecraft)   |
| apogee boost motors  | SL-3 rocket engine   | fuel consumption   |
| H-1 engine   | Space Shuttle Boosters   |  |
| LR-87-AJ-5 engine  | Advanced Solid Rocket Motor  | fuel systems   |
| M-1 engine   | (STS)  | geothermal energy conversion   |
| M-55 engine  | SYNCOM apogee engines  | heat engines   |
| MA-2 engine  | TX-77 engine   | heat sources   |
|  |  | ignition systems   |
| MA-3 engine  | TX-354 engine  | lubrication  |
| MA-5 engine  | X-248 engine   | ∞ machinery  |
| Nike booster rocket engines  | X-254 engine   | missile components   |
| P-1 engine   | X-258 engines  | motors   |
| rocket engine 9KS-11000  | X-258-B1 engine  | ∞ power plants   |
| Space Shuttle Boosters   | X-259 engine   | propulsion   |
| Advanced Solid Rocket Motor  | XM-33 engine   |  |
| (STS)  | sustainer rocket engines   | reaction products  |
| X-405 engine   | turborocket engines  | shutdowns  |
| ducted rocket engines  | ullage rocket engines  | speed regulators   |
| 3  |  | supersonic combustion  |
| . electric rocket engines  | upper stage rocket engines   | thermodynamic efficiency   |
| electrostatic engines  | Vernier engines  | thermodynamics   |
| ion engines  | control rockets  | transportation energy  |
| cesium engines   | SYNCOM apogee engines  | turbines   |
| Hall thrusters   | aerospike engines  | ∞ vehicles   |
| mercury ion engines  | rocket-based combined-cycle  | oo vernoies  |
| RIT engines  | engines  | England  |
| electrothermal engines   | . torpedo engines  | England  |
| arc jet engines  | turborocket engines  | GS nations   |
| pulsed jet engines   | ullage rocket engines  | . United Kingdom   |
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|                 | refining   | thermodynamics   | pointing control systems  |
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|                 | upgrading  | enthalpy-entropy diagrams  | space shuttles  |
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|                 | . nuclear power plants   | entire functions   |   |
|                 | Enrico Fermi atomic power plant  | UF integral functions  | enumeration   |
|                 | nuclear electric power generation  | GS analysis (mathematics) . complex variables                        | RT counting<br>lists  |
|                 | . nuclear power plants   | analytic functions   | number theory   |
| RT              | Enrico Fermi atomic power plant breeder reactors   | entire functions   | number triesty  |
| 111             | fast nuclear reactors  | functions (mathematics)  | ∞ envelopes   |
|                 | liquid metal cooled reactors   | . analytic functions   | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   |
| ۰               | o power plants   | entire functions   | LISTED BELOW)   |
| C1              | Observation (Institute of the Control of the Contro | entomology   | RT coverings  |
|                 | -Chapman theory  Chapman-Enskog theory   | RT insecticides  | enclosures<br>flight envelopes                                    |
| USL             | Chapman-Enskog theory  | insects  | limits (mathematics)  |
| enstatit        | e  | ∞ science  | stellar envelopes   |
| GS              | chalcogenides  | ∞ zoology  |   |
|                 | . oxides   | entrainment  | environment effects   |
|                 | pyroxenes  | RT aeration  | SN (EFFECTS ON ENVIRONMENT)<br>RT air pollution                   |
|                 | enstatite  | aerosols   | coastal ecology   |
|                 | magnesium compounds . enstatite  | blowing  | coastal water   |
|                 | minerals   | Coanda effect dispersing   | contaminants  |
|                 | . pyroxenes  | spraying   | contamination   |
|                 | enstatite  | suspending (mixing)  | debris<br>deforestation   |
|                 | silicon compounds  |  | ∞ effects   |
|                 | . silicates pyroxenes  | entrances  | environments  |
|                 | enstatite  | RT curtains  | eutrophication  |
| RT              | chondrule  | doors<br>intake systems  | exhaust gases   |
|                 | igneous rocks  | ∞ thresholds   | greenhouse effect   |
|                 | regolith   | transfer tunnels   | habitats<br>ice environments                                      |
|                 | rocks  |  | man environment interactions                                      |
|                 | soils  | entrapment   | marine biology  |
| enstrop         | hv   | RT accumulators confusion  | marine environments   |
|                 | vorticity  | escape (abandonment)   | metabolic wastes  |
|                 | •  | radiation belts  | noise pollution<br>poisons  |
|                 | ise (Orbiter)  | tangling   | pollution   |
| UF              | Space Shuttle Orbiter 101  | traps  | sewage  |
| GS              | manned spacecraft . space shuttles   | entropy  | soil erosion  |
|                 | Space Shuttle orbiters   | DEF A measure of the extent to which the                             | thermal pollution   |
|                 | Enterprise (Orbiter)   | energy of a system is unavailable.                                   | waste disposal  |
|                 | reentry vehicles   | GS thermodynamic properties  | wastes<br>water pollution   |
|                 | . recoverable spacecraft   | . entropy  | water quality   |
|                 | reusable spacecraft  | RT Crocco method   | water resources   |
|                 | space shuttles Space Shuttle orbiters  | ∞ energy<br>enthalpy   | wetlands  |
|                 | Space Shuttle Orbiters   | exergy   | wildlife  |
| RT              | manned space flight  | heat   | environment management  |
| ۰               | ∘ spacecraft   | maximum entropy method   | GS management   |
|                 |  | Mollier diagram  | . environment management  |
| enthalp         |  | nonisentropicity Shannon-Wiener measure                              | RT conservation   |
| DEF<br>namic fi | A mathematically defined thermody-<br>unction of state. Used for heat content.   | tephigrams   | Earth resources   |
| UF              | heat content   | thermochemistry  | environmental cleanup<br>environmental monitoring                 |
| GS              | heat   | thermodynamics   | land management   |
|                 | . enthalpy   |  | land use  |
|                 | . Gibbs free energy  | entropy (statistics)  DEF A factor or quantity that is a function of | man environment interactions                                      |
|                 | heat of dissociation heat of formation   | a mechanical system and is equal to the loga-                        | resources management  |
|                 | heat of solution   | rithm of the probability of the particular arrange-                  | waste management<br>water management                              |
|                 | latent heat  | ment in that state.  | water resources   |
|                 | heat of fusion   | GS entropy (statistics)  |   |
|                 | heat of vaporization   | . maximum entropy method   | environment models  |
|                 | thermodynamic properties   | . minimum entropy method<br>RT ∞ statistics                          | GS models   |
|                 | . enthalpy Gibbs free energy   | TT Stationed   | . <b>environment models</b><br>RT atmospheric models              |
|                 | heat of dissociation   | ∞ entry  | climate models  |
|                 | heat of formation  | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS      | exobiology  |
|                 | heat of solution   | LISTED BELOW)  | test chambers   |
|                 | latent heat  | RT atmospheric entry   | anvironment mellertiem  |
|                 | heat of fusion heat of vaporization  | reentry  | environment pollution  DEF Alterations of the natural environment |
| RT              | adiabatic conditions   | entry guidance (STS)   | that are harmful to life; normally as produced by                 |
|                 | drying   | DEF The precise steering commands for                                | human activities.   |
| ۰               | ∘ energy   | trajectory from initial penetration of the Earth's                   | GS pollution  |
|                 | entropy  | atmosphere until the terminal area guidance is                       | . environment pollution   |
|                 | free energy  | activated at an Earth-relative speed (about 2500 fps)                | air pollution   |
|                 | Gibbs-Helmholtz equations heat measurement   | fps). GS guidance (motion)   | global air pollution indoor air pollution                         |
|                 | Joule-Thomson effect   | . entry guidance (STS)   | soil pollution  |
|                 | Mollier diagram  | RT atmospheric entry   | water pollution   |
|                 | specific heat  | flight control   | oil pollution   |
|                 | thermochemistry  | hypersonic reentry   | RT aerobiology  |

#### environment protection

aerosols air sampling biomass burning clean energy Earth resources environmental monitoring environmental surveys human wastes metabolic wastes noise pollution oil slicks poisons pollution monitoring pollution transport radioactive wastes thermal pollution waste disposal

#### environment protection

GS protection

environment protection

air pollution

Central Atlantic Regional Ecol Test

Site

effluents

environmental cleanup

environmental monitoring planetary protection

pollution

radioactive wastes

waste disposal water pollution

#### environment simulation

GS simulation

#### . environment simulation

. . acoustic simulation

. . altitude simulation

. . space environment simulation

. . thermal simulation

... weightlessness simulation

... neutral buoyancy simulation

RT atmospheric entry simulation

atmospheric models environmental tests

flight simulation

virtual reality

#### environment simulators

GS simulators

#### . environment simulators

. . Lunar Gravity Simulator

. . solar simulators

. . space simulators

... clinostats

... High Vacuum Orbital Simulator

. . Langley complex coordinator

test chambers

environmental chambers

test chambers USE

## environmental chemistry

DEF Collective term comprising the complex chemical relationships involving the atmosphere, climatology, air and water pollution, fuels, pesticides, energy, biochemistry, geochemistry, etc.

#### GS environmental chemistry

. aerothermochemistry

. atmospheric chemistry

. geochemistry

. biogeochemistry

. marine chemistry

RT air pollution

∞ chemistry

climatology

hydrocarbon fuels

pesticides

smog waste disposal

water pollution

### environmental cleanup

(added February 1999)

ĠS cleaning

environmental cleanup

decontamination environment management

environment protection

hazardous wastes oil pollution oil slicks pollution control reclamation soil pollution waste disposal waste treatment water pollution

#### environmental control

#### GS environmental control

water treatment

. pollution control

antiseptics

artificial gravity automatic control

biosatellites cabin atmospheres

clean rooms

∞ control

emergency life sustaining systems

environments habitability manned reentry manned spacecraft pressurized cabins resources management spacecraft cabin atmospheres spacecraft environments temperature control

test chambers weather modification

windshields

### environmental engineering

RT ∞ aerospace sciences clean energy

climatology comfort

∞ engineering environments

heating

human factors engineering

illuminating life sciences

life support systems meteorology

physiological effects psychological effects

shelters

space heating (buildings)

Starsite program temperature control

temperature distribution terraforming ventilation

waste disposal waste management

## environmental index

RT physiological tests

## environmental laboratories

laboratories

environmental laboratories

test facilities

## . environmental laboratories

human factors laboratories test chambers

## environmental monitoring

ambience biomarkers

environment management environment pollution

environment protection infrared radiometers meteorology

monitors oceanography water sampling weather forecasting

## environmental quality

quality GS

. environmental quality

. . air quality . water quality

RT air pollution

contaminants environments

Global Air Sampling Program

marine biology noise pollution pollution

thermal pollution water pollution

#### **Environmental Research Satellites**

Octahedral Research Satellites

artificial satellites

. scientific satellites

#### . . Environmental Research

Satellites

. . . ERS 17 ... ERS 18

. Intasat satellite

Atlas Agena launch vehicles

## environmental surveys

SN

(LIMITED TO INDEXING ENVIRONMENTAL IMPACT STATEMENTS) aerosols

air pollution Earth resources environment pollution human wastes metabolic wastes poisons

pollution pollution control radioactive wastes thermal pollution waste disposal water pollution

environmental temperature

USE ambient temperature

## environmental tests

## environmental tests

. cold weather tests

. corrosion tests

. . corrosion test loops

. salt spray tests . high temperature tests

. low temperature tests

. underwater tests

. neutral buoyancy simulation ASSET project

electronic equipment tests

environment simulation

field tests

high altitude tests ∞ materials tests

orbital space tests physiological tests psychological tests

reverberation chambers

spin tests

vibration tests

test chambers

∞ tests thermal cycling tests

thermal vacuum tests

# environmental transport

(added March 2005) The transport of a substance through

#### an environmental medium. GS environmental transport

. pollution transport

## environments

External conditions or the sum of such conditions, in which pieces of equipment, living organisms, or systems operate as in temperature environment, vibration environment, or space environment. Environments are usually specified by a range of values, and may be either natural or artificial.

## environments

. aerospace environments

. . cislunar space

. . deep space

. . . interplanetary space . interstellar space

. Earth orbital environments

Farth environment

. Earth magnetosphere lite designed to provide continuous global meacoenzymes . . geomagnetic tail surements including high- and medium-resolution radar and optical images from its enzymology magnetopause . magnetosheath Advanced Synthetic Aperture Radar (ASAR) enzymology . extraterrestrial environments and Medium-Resolution Imaging Spectrometer biochemistry GS cislunar space (MERIS). Acquired data will support Earth scienzymology ence research and allow monitoring of environ-. . deep space digesting . interplanetary space mental and climatic changes. digestive system . interstellar space GS artificial satellites enzymes Earth orbital environments . ESA satellites metabolism . Envisat-1 satellite . . lunar environment nitrogen metabolism . lunar atmosphere ESA spacecraft phosphatases . ESA satellites . . planetary environments . Mars environment Envisat-1 satellite EOCR (reactor) . Mars atmosphere ERS-2 (esa satellite) imaging spectrometers remote sensing experimental organic cooled USE . planetary atmospheres . helium hydrogen atmospheres reactors Jupiter atmosphere satellite observation Mars atmosphere satellite-borne radar FOGO Mercury atmosphere Neptune atmosphere synthetic aperture radar USE EGO enzyme activity planetary ionospheres **EOLE** satellites GS metabolism Pluto atmosphere GS artificial satellites enzyme activity Saturn atmosphere . French satellites . fermentation Uranus atmosphere .. EOLE satellites bioconversion Venus atmosphere . meteorological satellites diabetes mellitus . Venus clouds . EOLE satellites digestive system . planetary magnetospheres French space program enzyme inhibitors . planetary magnetotails **GEOLE** satellites lysosomes satellite atmospheres geophysical satellites tyrosine . lunar atmosphere ... Titan atmosphere enzyme inhibitors **EOPAP** stellar atmospheres (added August 2004) USE Earth & Ocean Physics . . . chromosphere DEF Compounds or agents that combine **Applications Program** . solar atmosphere with an enzyme in such a manner as to prevent . solar transition region the normal substrate-enyme combination and . frictionless environments EOR (rendezvous) the catalytic reaction. . heterosphere USE Earth orbital rendezvous inhibitors GS . high altitude environments enzyme inhibitors . high gravity environments active sites (chemistry) FOS RT . high temperature environments biochemistry USE Earth Observing System (EOS) . ice environments catalytic activity . inner radiation belt enzyme activity . low temperature environments EOS AM-1 spacecraft . marine environments (added June 1999) enzymes . midlatitude atmosphere USE Terra spacecraft biopolymers ĞS . rotating environments . proteins spacecraft environments EOS data and information system . . enzymes thermal environments (added April 1995) . . . aldolase adiabatic conditions DEF A system to manage data resulting from NASA's Earth Observing Systems's sci-. . . amidase carbonic anhydrase air pollution ence research satellites and field measurement . . . catalase air quality ambience cholinesterase programs, and other data essential for interpreting these measurements. . . . cvtochromes  $\infty$  atmospheres UF **EOSDIS** dehydrogenases coastal ecology GS information systems hexokinase coastal plains EOS data and information system lvsozvme controlled atmospheres Earth Observing System (EOS) . . . nuclease Earth atmosphere Earth Resources Information System oxidase ecology remote sensing papain economic impact satellite observation pepsin electromagnetic interference scientific satellites phosphatases environment effects protease environmental control EOS PM (satellite) renin environmental engineering thrombin (added May 2005) environmental quality . trypsin USE Aqua spacecraft global air pollution organic compounds gravitation . proteins habitability EOS-A . . enzymes habitats USE Landsat E aldolase human factors engineering amidase humidity carbonic anhydrase EOS-B life support systems catalase USE Landsat F nonpoint sources cholinesterase ∞ performance . . . cytochromes physiological effects **EOSDIS** dehydrogenases plants (botany) USE EOS data and information system hexokinase pressure lysozyme programming environments . nuclease eosinophils psychological effects A type of white blood cell or leukocyte oxidase regimes which stains a red color with eosin stain; norpapain temperature pepsin mally about 2 to 3 percent of white cells in the thermal pollution phosphatases blood but tending to decrease during stressful vacuum effects situations and thus usable as an index for

#### Envisat-1 satellite

(added August 2000)

weightlessness

Polar-orbiting Earth observation satel-

. . . trypsin activation (biology) RT catalysts

. . . renin

protease

thrombin

stress.

GS

... eosinophils

RT cytoplasm

∞ materials FPF-A epinephrine ∞ matrices Explorer 12 satellite USE The active sympathomimetic hormone matrix materials from the adrenal medulla in most species. It pultrusion EPE-B stimulates both the alpha- and beta- adrenergic sandwich structures Explorer 14 satellite USE systems, causes systemic vasoconstriction and woven composites gastrointestinal relaxation, stimulates the heart, EPE-C epoxy resins DEF Visco and dilates bronchi and cerebral vessels. It is Explorer 15 satellite USE used in asthma and cardiac failure and to delay Viscous liquids or brittle solids containabsorption of local anesthetics. ing epoxide groups that can be crosslinked into final form by means of a chemical reaction with EPE-D adrenaline Explorer 26 satellite USE GS drugs a variety of setting agents used with or without . epinephrine heat. ephemerides organic compounds GS plastics DEF Periodical publications tabulating the predicted positions of celestial bodies at regular . amines . synthetic resins . . catecholamine ... thermosetting resins intervals, such as daily, and containing other data of interest to astronomers. A publication . epinephrine ... epoxy resins adrenal gland . . . phenolic epoxy resins giving similar information useful to a navigator is dopamine called an almanac.
GS ephemerides resins heart rate . synthetic resins hormones . . thermosetting resins planet ephemerides neurotransmitters ... epoxy resins RT astronomical catalogs stimulants . . phenolic epoxy resins celestial mechanics adhesives ephemeris time epitaxy DEF boron reinforced materials orbits The oriented growth of a crystalline boron-epoxy composites position (location) substance on a substrate of the same or differcoatings ent cystalline substance. ephemeris time glass transition temperature growth graphite-epoxy composites The uniform measure of time defined . crystal growth lay-up by the laws of dynamics and determined in . . epitaxy
. . . atomic layer epitaxy prepregs principle from the orbital motions of the planets, resin matrix composites specifically, the orbital motion of the Earth as . electroepitaxy . liquid phase epitaxy represented by Newcomb's Tables of the sun. equalizers (circuits) GS time molecular beam epitaxy attenuators ephemeris time . . . vapor phase epitaxy bipolar transistors frequency response RT ephemerides phase shift universal time crystal lattices signal processing crystal structure epicardium junction transistors GS anatomy  $\, \, \infty \, \, \, \text{equations} \, \,$ . circulatory system laser deposition (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN pulsed laser deposition . . cardiovascular system . . . heart UF balance equations epithelium . . . . epicardium forced vibratory motion equations GS tissues (biology) membranes adiabatic equations epithelium epicardium approximation RT anatomy tissues (biology) Bernoulli theorem histology epicardium Bethe-Salpeter equation peritoneum biharmonic equations skin (anatomy) epicycloids Blasius equation geometry **FPNI** Boltzmann transport equation . curves (geometry)
. . epicycloids Boltzmann-Vlasov equation USE effective perceived noise levels Born approximation . Euclidean geometry boundary layer equations Brillouin-Wigner equation epochs . . analytic geometry time measurement USE epicycloids Burger equation RT cusps (mathematics) Cauchy-Riemann equations epoxidation Chandrasekhar equation Chaplygin equation conservation equations GS chemical reactions epidemiology epoxidation The branch of medicine that studies the sources, distribution, and determinants of RT oxidation constitutive equations diseases and injuries in human populations. continuity equation convection-diffusion equation medical science epoxides GS USE epoxy compounds epidemiology infectious diseases RT cubic equations epoxy compounds difference equations vaccines UF epoxides differential equations veterinary medicine GS epoxy compounds diophantine equation endrin Dirac equation epidermis ethylene oxide Donnell equations GS anatomy hyoscine Duffing differential equation . skin (anatomy) propylene oxide eikonal equation . epidermis RT ∞ chemical compounds Einstein equations RT contact dermatitis Elber equation epilepsy elliptic differential equations diseases epoxy matrix composites equations of motion GŚ DEF High strength compositions consisting equations of state epilepsy of epoxy resin and a reinforcing matrix of filaequilibrium equations RT cramps human pathology ments or fibers of glass, metal, or other materi-Euler equations of motion Euler-Cauchy equations shaking als. composite materials Euler-Lagrange equation . polymer matrix composites Euler-Lambert equation **Epimetheus** (added July 1995) . . epoxy matrix composites Faddeev equations A natural satellite of Saturn, orbiting at ... boron-epoxy composites Falkner-Skan equation ... graphite-epoxy composites a mean distance of 151,422 kilometers. . Ficks equation aramid fiber composites celestial bodies flow equations GS . natural satellites aramid fibers Fokker-Planck equation

braided composites

fiber orientation

RT Saturn (planet)

low density research

Fredholm equations

Gauss equation

. . Saturn satellites

... Epimetheus

Gibbs adsorption equation Hamilton-Jacobi equation tropical regions inertia principle Gibbs-Helmholtz equations kinematics Glimm method Lissajous figures The primary great circle of a sphere or Hamilton-Jacobi equation Mach inertia principle spheroid, such as the Earth, perpendicular to the polar axis; or a line resembling or approxi-Helmholtz equations moments of inertia Helmholtz vorticity equation motion aftereffects mating such a circle. Hugoniot equation of state spinning unguided rocket trajectory GŠ equators hydrodynamic equations stability lunar equator hyperbolic differential equations systems stability . magnetic equator trajectories identities coordinates inhour equation trajectory analysis rotating spheres integral equations variable mass systems transequatorial propagation kinematic equations von Zeipel method kinetic equations  $\, \, \infty \, \, \, \text{equilibrium} \, \,$ Klein-Gordon equation equations of state (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Korteweg-Devries equation DEF Equations relating temperature, pres-Krook equation sure, and volume of a system in thermodynamic Lame wave equations
Landau-Ginzburg equations
Laplace equation A state of dynamic balance between DFF equilibrium. Used for state equations. state equations the opposing actions, reactions, or velocities of GS equations of state a reversible process. linear equations
linear evolution equations . Hugoniot equation of state RT acid base equilibrium adiabatic equations aerostatics BBGKY hierarchy balance linearization Bose geometry balancing Liouville equations compressibility body sway test macroscopic equations continuity equation chemical equilibrium Mathieu function equations diffusion Maxwell equation equilibrium equations diffusion coefficient Monge-Ampere equation ideal fluids dynamic characteristics Navier-Stokes equation equilibrium equations ideal gas nonholonomic equations kinetic theory heat of dissociation nonlinear equations Mollier diagram homeostasis nonlinear evolution equations real gases isostasy Orr-Sommerfeld equations liquid-vapor equilibrium thermodynamics parabolic differential equations loads (forces) partial differential equations virial coefficients Maxwell-Mohr method Pfaff equation nonequilibrium conditions equatorial atmosphere Poisson equation DEF The composition and characteristics of the Earth's atmosphere at and/or near the equa-Onsager relationship polynomials plasma equilibrium primitive equations relaxation (mechanics) quadratic equations tor relaxation time RT ∞ atmospheres quartic equations atmospheric composition meteorological parameters middle atmosphere stability Rayleigh equations stabilization reaction-diffusion equations statics Reynolds equation steady state roots of equations quasi-biennial oscillation systems stability TRMM satellite Saha equations thermodynamic equilibrium thermodynamic properties Schroedinger equation tropical meteorology semiempirical equations tropical regions shallow shell equations thermodynamics equatorial electrojet transition points simultaneous equations unsteady state singular integral equations electric current . ionospheric currents variability Stokes-Beltrami equation thermodynamics . . electrojets water balance vlasov equations Volterra equations . equatorial electrojet electricity equilibrium diagrams Von Karman equation . atmospheric electricity USE phase diagrams . . ionospheric currents vorticity equations . . . electrojets wave equations equilibrium equations . . . equatorial electrojet RT analysis (mathematics) Wiener Hopf equations RT auroral electrojets ∞ equations equations of motion equations of motion equatorial orbits equations of state DEF A set of equations which give informa-Inclined orbits with an inclination of ∞ equilibrium tion regarding the motion of a body or of a point zero degrees. The plane of an equatorial orbit in space as a function of time when initial contains the equator of the primary body. equilibrium flow position and initial velocity are known. Used for GS orbits DEF Gas flow in which energy is constant motion equations. . equatorial orbits along streamlines and the composition of the motion equations . stationary orbits gas at any point is not time dependent. Used for steady state flow. GS equations of motion circular orbits . Euler equations of motion Earth orbits steady state flow fluid flow UF Euler-Lagrange equation elliptical orbits GS . kinetic equations geosynchronous orbits . gas flow . hydrodynamic equations lunar orbits . . equilibrium flow ... Burnett equations orbital mechanics ... Helmholtz vorticity equation planetary orbits ... frozen equilibrium flow kinematic equations polar orbits shifting equilibrium flow . Navier-Stokes equation satellite orbits RT Eyring theory . Reynolds equation spacecraft orbits heat transmission nonequilibrium flow autonomy twenty-four hour orbits Bethe-Salpeter equation plasma equilibrium celestial mechanics quasi-steady states equatorial regions classical mechanics DEF Areas on or near the Earth's equator; steady flow regions between the Tropic of Cancer and the computational fluid dynamics continuity equation control moment gyroscopes equilibrium methods
SN (LIMITED TO STRUCTURAL ANALYSIS)
GS structural analysis Tropic of Capricorn (23 degrees 27 minutes

North or South of the Equator).

Farth surface

equatorial regions

regions

arid lands

GS

RT

∞ dvnamics

∞ equations

Einstein equations

equilibrium equations

. equilibrium methods

matrix methods

∞ methodology

RT

variational principles . equipotentials thermodynamics RT ∞ flow graphs ergometers flow nets One of two points of intersection of the DEF Instruments for measuring muscular ecliptic and the celestial equator occupied by the work. equivalence sun when its declination is zero degrees. mathematical logic GS measuring instruments . set theory seasons ergometers solar position . equivalence RT dynamometers solstices parity ergonomics winter partitions (mathematics) USE human factors engineering equivalent circuits equipartition theorem ergotamine GS circuits energy equipartition bases (chemical) equivalent circuits GS theorems duality principle . alkaloids equipartition theorem network analysis . ergotamine degrees of freedom energy distribution network synthesis drugs superposition (mathematics) . ergotamine kinetic energy nitrogen compounds specific heat . alkaloids ER fluids . . ergotamine USF electrorheological fluids ∞ equipment organic compounds (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . amines ER-2 aircraft LISTED BELOW)
apparatus . . ergotamine U-2 aircraft USE . cyclic compounds abort apparatus ... heterocyclic compounds FRBF absorbers (equipment) . . . alkaloids USE Earth radiation budget experiment accumulators (computers) . . . . ergotamine air conditioning equipment erbium airborne equipment **EROS** (satellites) GS chemical elements aircraft equipment Earth Resources Observation . rare earth elements airport surface detection equipment Satellites . . erbium audio equipment artificial satellites GS . erbium isotopes automatic test equipment **EROS** (satellites) metals bedding equipment Earth resources . rare earth elements bombing equipment oceanography . . erbium breathing apparatus remote sensors . . . erbium isotopes communication equipment satellite observation computer storage devices consoles scanning erbium 169 terrain analysis USE erbium isotopes cryogenic computer storage cryogenic equipment **EROS** asteroid erbium 171 data processing equipment (added March 1996) USE erbium isotopes distillation equipment GS celestial bodies electromechanical devices . asteroids erbium alloys electronic equipment . EROS asteroid GS alloys ground support equipment Near Earth Asteroid Rendezvous . rare earth alloys handling equipment Mission . . erbium alloys ∞ hardware heating equipment EROS project erbium compounds hydraulic equipment USE Experimental Reflector Orbital Shot laboratory equipment GS rare earth compounds Proi erbium compounds lighting equipment lunar based equipment RT ∞ chemical compounds erosion lunar excavation equipment ∞ metal compounds Progressive loss of original material mechanical devices from a solid surface due to mechanical interacerbium isotopes tion between that surface and a fluid, a multi-component fluid, or impinging liquid or solid particles. Used for scars (geology). medical equipment erbium 169 miniature electronic equipment UF erbium 171 onboard equipment scars (geology) erosion chemical elements peripheral equipment (computers) UF photographic equipment . nuclides GS pneumatic equipment . . isotopes . rain erosion portable equipment ... erbium isotopes . soil erosion radar equipment . rare earth elements . water erosion rigging safety devices self erecting devices . . erbium wind erosion . erbium isotopes RT ablation metals abrasion service life . rare earth elements arroyos spacecraft equipment . . erbium atmospheric effects ... erbium isotopes survival equipment cavitation corrosion syringes cavitation flow television equipment erection corrosion ∞ test equipment construction USE degradation wind tunnel apparatus deterioration x ray apparatus EREP erosive burning UF Earth Resources Experiment etching equipment specifications Package fretting specifications packages GS hot corrosion equipment specifications instrument packages hydrogeology aircraft production . EREP impingement commonality RT ∞ instruments inliers (landforms) metal surfaces ∞ design Skylab 1 Skylab 2 dynamic range metal-water reactions functional design specifications Skylab 3 pittina maintenance Skylab 4 plateaus procurement rain impact damage ergodic process ravines information theory equipotentials rivers probability theory soil science

stochastic processes

space weathering

GS

fluid flow . potential flow

| spark machining   | RT bit error rate  | RT Atlas Agena launch vehicles  |
|---|--|---|
| surface reactions<br>tribology  | ∞ codes<br>coding  | ERS 18  |
| valleys   | computer programs  | GS artificial satellites  |
| wave resistance   | computer systems programs  | . scientific satellites   |
| wear  | digital techniques   | Environmental Research Satellites   |
| wear tests  | fault detection  | ERS 18  RT Atlas Agena launch vehicles  |
| weathering<br>wind effects  | fault tolerance<br>information theory  | RT Atlas Agena launch vehicles  |
| wild ellects  | parity   | ERS-1 (ESA satellite)   |
| erosive burning   | proving  | DEF A European Space Agency remote  |
| DEF Combustion of solid propellants ac-   | quality control  | sensing satellite designed to monitor global  |
| companied with nonsteady, high velocity flows of  | redundancy   | oceans, coastal zones and polar regions. It is scheduled for launch on an Ariane 4 expendable |
| product gases across burning propellant surfaces.   | redundancy encoding  | launch vehicle in 1990.   |
| GS combustion   |  | GS artificial satellites  |
| . erosive burning   | error functions  | . ESA satellites  |
| RT burnout  | GS functions (mathematics) . error functions   | ERS-1 (ESA satellite)   |
| combustion temperature  | RT statistical distributions   | . maritime satellites ERS-1 (ESA satellite)   |
| deterioration<br>erosion  |  | ESA spacecraft  |
| exhaust gases   | error signals  | . ESA satellites  |
| fuel combustion   | DEF Voltages the magnitude of which are  | ERS-1 (ESA satellite)   |
| hypersonic combustion   | proportional to the difference between an actual                                       | RT European Space Agency  |
| oxidation<br>pitting  | and a desired position.  | ERS-2 (esa satellite)   |
| propellant combustion   | RT automatic repeat request  | (added February 1996)   |
| smoldering  | bit error rate<br>comparators  | GS artificial satellites  |
| solid propellant combustion   | compensators   | . ESA satellites  |
| tribology   | differential amplifiers  | . ERS-2 (esa satellite)   |
| error analysis  | discriminators   | ESA spacecraft . ESA satellites   |
| GS analysis (mathematics)   | errors   | . ERS-2 (esa satellite)   |
| . numerical analysis  | false alarms<br>loop transfer recovery   | RT Envisat-1 satellite  |
| error analysis  | phase error  | European Space Agency   |
| RT ∞ analyzing  | position errors  | ERTS  |
| ∞ applications of mathematics   | range errors   | USE Landsat satellites  |
| backpropagation (artificial intelligence) bit error rate                                      | signal mixing  | COL Editabat Satolitos  |
| boresight error   | ∞ signals<br>slewing   | ERTS-A  |
| censored data (mathematics)   | Siewiiig   | USE Landsat 1   |
| fault tolerance   |  | ERTS-B  |
| ill-conditioned problems<br>(mathematics)   | errors  DEF In mathematics, the difference be-   | USE Landsat 2   |
| mean square values  | DEF In mathematics, the difference be-<br>tween the true value and a calculated or ob- |   |
| probability theory  | served value. Use for invalidity.  | ERTS-C  |
| range errors  | UF invalidity  | USE Landsat 3   |
| Rayleigh distribution   | GS errors  | ERTS-D  |
| root-mean-square errors   | . instrument errors  | USE Landsat 4   |
| sensitivity analysis<br>systematic errors   | . phase error<br>. pilot error   |   |
| -,  | . position errors  | <i>ERTS-E</i><br>USE <b>Landsat E</b>   |
| error band  | . boresight error  | USE Landsat E   |
| USE accuracy  | . random errors  | ERTS-F  |
| error correcting codes  | . range errors   | USE Landsat F   |
| DEF Codes in which each telegraph or data   | . root-mean-square errors<br>. systematic errors                                       | aw intions (valoringles)  |
| signal conforms to specific rules of construction   | . truncation errors  | eruptions (volcanology)<br>(added October 2001)   |
| so that departures from this construction in the  | . velocity errors  | USE volcanic eruptions  |
| received signals can be automatically detected,   | RT accuracy  |   |
| and permits the automatic correction, at the received terminal, of some or all of the errors. | bias<br>∞ compensation   | erythrocytes  |
| Note: Such codes require more signal elements   | computer program integrity   | UF red blood cells GS cells (biology)   |
| than are necessary to convey the basic informa-   | confidence   | GS cells (biology) . blood cells  |
| tion.   | consistency  | erythrocytes  |
| GS error correcting codes . Reed-Solomon codes  | correction   | reticulocytes   |
| RT automatic repeat request   | drift (instrumentation) dynamic characteristics  | RT blood cell count   |
| bit error rate  | error signals  | bone marrow<br>carboxyhemoglobin  |
| ∞ codes   | hysteresis   | hematocrit  |
| concatenated codes  | linearity  | hematocrit ratio  |
| digital techniques redundancy encoding  | malfunctions   | hemoglobin  |
| rodundancy chocamy  | median (statistics) optical correction procedure                                       | hemolysis   |
| error correcting devices  | precision  | leukocytes<br>monocytes   |
| RT BCH codes  | quality control  | oxyhemoglobin   |
| correction<br>∞ devices   | range (extremes)   | , ,   |
| instrument compensation   | reliability<br>resolution  | ES-3A aircraft  |
| redundancy encoding   | response bias  | USE S-3 aircraft  |
| amon detection on the   | ∞ scaling  | ESA   |
| error detection codes  DEF Codes in which each expression con-                                | ∞ tests  | USE European Space Agency   |
| forms to specific rules of construction, so that if   | tolerances (mechanics)   | ESA catallitae  |
| certain errors occur in an expression the result-   |  | ESA satellites SN (EUROPEAN SPACE AGENCY  |
| ing expression will not conform to the rules of   | ERS 17   | SATELLITES)   |
| construction and thus the presence of errors is   | GS artificial satellites   | UF ESRO satellites  |
| detected. Note: Such codes require more signal elements than are necessary to convey the      | . scientific satellites Environmental Research Satellites                              | European Space Research<br>Organization sat   |
| fundamental information.  | ERS 17   | GS artificial satellites  |
|   |  |   |

| . ESA satellites   | Marots (ESA)  | jettison systems   |
|--|---|--|
| Aerosat satellites   | METEOSAT satellite  | paracone   |
| COS-B satellite  | OTS (ESA)   | safety factors   |
| ERS-1 (ESA satellite)  | TD satellites   | ∞ systems  |
| ERS-2 (esa satellite)  | TD-1 satellite  | accana valocity  |
| ESRO 1 satellite   | Envisat-1 satellite   | escape velocity  DEF The radial speed which a particle or  |
| ESRO 2 satellite<br>ESRO 4 satellite   | XMM-Newton telescope  | larger body must attain in order to escape from  |
| European Communications  | . Giotto mission<br>. Huygens probe   | the gravitational field of a planet, satellite, or   |
| Satellite  | RT ∞ spacecraft   | star. Used for parabolic velocity.   |
| Exosat satellite   | TT - opaccoran  | UF parabolic velocity  |
| GEOS satellites (ESA)  | Esaki diodes  | GS rates (per time)  |
| HEOS satellites  | USE tunnel diodes   | escape velocity  |
| HEOS A satellite   |   | velocity   |
| HEOS B satellite   | escalators  | escape velocity  |
| Hipparcos satellite  | RT elevators (lifts)<br>ladders   | RT ∞ escape  |
| Infrared Space Observatory (ISO)   | ∞ lifts   | high speed   |
| L-Sat  | stairways   | hyperbolic trajectories<br>∞ hypervelocity   |
| Magellan ultraviolet astronomy satellite   | danwayo   | orbital velocity   |
| Marecs maritime satellites   | ∞ escape  | planetary gravitation  |
| Marots (ESA)   | SN (USE OF A MORE SPECIFIC TERM IS  | Schwarzschild metric   |
| METEOSAT satellite   | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)   | velocity errors  |
| OTS (ESA)  | DEF Of a particle or larger body: to achieve  | ,  |
| TD satellites  | an escape velocity and a flightpath outward from  | escarpments  |
| TD-1 satellite   | a primary body so as neither to fall back to the  | DEF Long, more or less continuous cliffs or  |
| Envisat-1 satellite  | body nor to orbit it.   | relatively steep slopes facing in one general  |
| XMM-Newton telescope   | RT escape (abandonment)   | direction, breaking the continuity of the land by  |
| ESA spacecraft   | escape capsules   | separating two level or gently sloping surfaces, and produced by erosion or by faulting. Used for  |
| ESA satellites   | escape rockets  | scarps.  |
| Aerosat satellites   | escape systems  | UF scarps  |
| COS-B satellite  | escape velocity   | GS landforms   |
| ERS-1 (ESA satellite) ERS-2 (esa satellite)  | leakage   | . escarpments  |
| ESRO 1 satellite   | escape (abandonment)  | RT cliffs  |
| ESRO 2 satellite   | RT bailout  | slopes   |
| ESRO 4 satellite   | ejection  | topography   |
| European Communications  | ejection training   |  |
| Satellite  | entrapment  | Escherichia  |
| Exosat satellite   | ∞ escape  | GS microorganisms  |
| GEOS satellites (ESA)  | escape rockets  | . bacteria   |
| HEOS satellites  | escape systems  | . Escherichia  |
| HEOS A satellite   | jettison systems  | ESG (gyroscopes)   |
| HEOS B satellite   | jettisoning   | USE electrostatic gyroscopes   |
| Hipparcos satellite  | parachute descent   | 3,   |
| Infrared Space Observatory (ISO)   | escape capsules   | eskers   |
| L-Sat<br>Magellan ultraviolet astronomy  | GS safety devices   | USE glacial drift  |
| satellite  | . escape capsules   | Falimas  |
| Marecs maritime satellites   | space capsules  | Eskimos  |
| Marots (ESA)   | . escape capsules   | RT anthropology culture (social sciences)  |
| METEOSAT satellite   | RT abort apparatus  | culture (social sciences)  |
| OTS (ESA)  | aborted missions  |  |
|  |   | ESO (observatory)  |
| TD satellites  | Assured Crew Return Vehicle   | ESO (observatory)<br>(added June 1996)   |
| TD-1 satellite   | Assured Crew Return Vehicle ejection seats  | •  |
| TD-1 satellite<br>Envisat-1 satellite  | Assured Crew Return Vehicle<br>ejection seats<br>emergency life sustaining systems  | (added June 1996) USE European Southern Observatory  |
| TD-1 satellite<br>Envisat-1 satellite<br>XMM-Newton telescope  | Assured Crew Return Vehicle ejection seats emergency life sustaining systems ∞ escape   | (added June 1996) USE European Southern Observatory esophagus  |
| TD-1 satellite Envisat-1 satelliteXMM-Newton telescope RT Earthnet   | Assured Crew Return Vehicle ejection seats emergency life sustaining systems ∞ escape flying ejection seats   | (added June 1996) USE European Southern Observatory esophagus GS anatomy   |
| TD-1 satellite Envisat-1 satellite XMM-Newton telescope RT Earthnet European Space Agency  | Assured Crew Return Vehicle ejection seats emergency life sustaining systems ∞ escape flying ejection seats high altitude environments  | (added June 1996) USE European Southern Observatory  esophagus GS anatomy . digestive system   |
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| TD-1 satellite Envisat-1 satellite XMM-Newton telescope RT Earthnet European Space Agency European space programs international cooperation SOHO Mission  ESA spacecraft DEF Spacecraft of the European Space Agency. GS ESA spacecraft . Columbus space station . ESA satellites Aerosat satellites Aerosat satellite ERS-1 (ESA satellite) ERS-2 (esa satellite) ESRO 1 satellite ESRO 2 satellite ESRO 4 satellite EVENCE SA SATELLITE EVENCE SATELLITE EVENCE SATELLITE EXPLOSE SATELLITE HEOS SATELLITE HEOS B satellite HEOS B satellite HEOS B satellite HIPOS B SATELLITE H | Assured Crew Return Vehicle ejection seats emergency life sustaining systems  ∞ escape flying ejection seats high altitude environments launch escape systems lunar escape devices paracone pressurized cabins X-38 crew return vehicle  escape rockets  DEF Small rocket engines attached to the leading end of an escape tower, which may be used to provide additional thrust to the capsule to obtain separation of the capsule from the booster vehicle in an emergency. GS safety devices escape rockets RT abort apparatus aborted missions  ∞ escape escape (abandonment) launch escape systems lunar escape systems GS escape systems SGS escape systems Launch escape systems RT bailout ejection   | (added June 1996) USE European Southern Observatory  esophagus GS anatomy . digestive system . esophagus  ESRO USE European Space Agency  ESRO 1 satellite GS artificial satellites . ESR 1 satellite ESA spacecraft . ESA satellite ESA spacecraft . ESR 1 satellite RT European Space Agency European Space Agency European space programs  ESRO 2 satellite GS artificial satellites . ESR 2 satellite ESA spacecraft . ESA satellites . ESRO 2 satellite ESA spacecraft . ESA satellites . ESRO 2 satellite ESA spacecraft . ESA satellites . ESRO 2 satellite  ESA satellites . ESRO 2 satellite  RT European Space Agency European space programs  ESRO 4 satellite GS artificial satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 5 satellites . ESRO 6 satellites . ESRO 6 satellites . ESRO 8 satellites . ESRO 8 satellites . ESRO 9 satellites   |
| TD-1 satellite Envisat-1 satellite XMM-Newton telescope RT Earthnet European Space Agency European space programs international cooperation SOHO Mission  ESA spacecraft DEF Spacecraft of the European Space Agency. GS ESA spacecraft . Columbus space station . ESA satellites Aerosat satellites COS-B satellite ERS-1 (ESA satellite) ERS-2 (esa satellite) ESRO 1 satellite ESRO 2 satellite ESRO 4 satellite ESRO 4 satellite ESRO 5 satellite ESRO 5 satellite EUROPEAN COMMUNICATIONS Satellite EUROPEAN COMMUNICATIONS Satellite ELOS A satellite HEOS at satellite HEOS a satellite HEOS B satellite HEOS B satellite HEOS B satellite HIEOS B satellite  | Assured Crew Return Vehicle ejection seats emergency life sustaining systems  ∞ escape flying ejection seats high altitude environments launch escape systems lunar escape devices paracone pressurized cabins X-38 crew return vehicle  escape rockets  DEF Small rocket engines attached to the leading end of an escape tower, which may be used to provide additional thrust to the capsule to obtain separation of the capsule from the booster vehicle in an emergency. GS safety devices _ escape rockets RT abort apparatus aborted missions  ∞ escape escape (abandonment) launch escape systems lunar escape devices  ∞ rockets ∞ spacecraft  escape systems GS escape systems . launch escape systems RT bailout ejection ejection seats | (added June 1996) USE European Southern Observatory  esophagus GS anatomy . digestive system . esophagus  ESRO USE European Space Agency  ESRO 1 satellite GS artificial satellites . ESA satellite ESA spacecraft . ESA satellite ESA spacecraft . ESA satellite RT European Space Agency European Space programs  ESRO 2 satellite GS artificial satellites . ESRO 2 satellite ESA spacecraft . ESA spacecraft . ESA satellites . ESRO 2 satellite  GS artificial satellites . ESRO 2 satellite ESA spacecraft . ESA satellite  GS artificial satellites . ESRO 4 satellite  GS artificial satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 4 satellites   |
| TD-1 satellite Envisat-1 satellite XMM-Newton telescope RT Earthnet European Space Agency European space programs international cooperation SOHO Mission  ESA spacecraft DEF Spacecraft of the European Space Agency. GS ESA spacecraft . Columbus space station . ESA satellites Aerosat satellites Aerosat satellite ERS-1 (ESA satellite) ERS-2 (esa satellite) ESRO 1 satellite ESRO 2 satellite ESRO 4 satellite EVENCE SA SATELLITE EVENCE SATELLITE EVENCE SATELLITE EXPLOSE SATELLITE HEOS SATELLITE HEOS B satellite HEOS B satellite HEOS B satellite HIPOS B SATELLITE H | Assured Crew Return Vehicle ejection seats emergency life sustaining systems  ∞ escape flying ejection seats high altitude environments launch escape systems lunar escape devices paracone pressurized cabins X-38 crew return vehicle  escape rockets  DEF Small rocket engines attached to the leading end of an escape tower, which may be used to provide additional thrust to the capsule to obtain separation of the capsule from the booster vehicle in an emergency. GS safety devices escape rockets RT abort apparatus aborted missions  ∞ escape escape (abandonment) launch escape systems lunar escape systems GS escape systems SGS escape systems Launch escape systems RT bailout ejection   | (added June 1996) USE European Southern Observatory  esophagus GS anatomy . digestive system . esophagus  ESRO USE European Space Agency  ESRO 1 satellite GS artificial satellites . ESR 1 satellite ESA spacecraft . ESA satellite ESA spacecraft . ESR 1 satellite RT European Space Agency European Space Agency European space programs  ESRO 2 satellite GS artificial satellites . ESR 2 satellite ESA spacecraft . ESA satellites . ESRO 2 satellite ESA spacecraft . ESA satellites . ESRO 2 satellite ESA spacecraft . ESA satellites . ESRO 2 satellite  ESA satellites . ESRO 2 satellite  RT European Space Agency European space programs  ESRO 4 satellite GS artificial satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 4 satellites . ESRO 5 satellites . ESRO 6 satellites . ESRO 6 satellites . ESRO 8 satellites . ESRO 8 satellites . ESRO 9 satellites   |

.. ESRO 4 satellite . . . ESSA 8 satellite project planning . . ESSA 9 satellite quality control auroras European Space Agency cloud photography reliability European space programs Nimbus satellites reserves particle density (concentration) satellite observation scientific satellites TIROS satellites statistical analysis statistical tests ESRO satellites essentially non-oscillatory schemes statistics USE ESA satellites (added September 1990) subcontracts UF ENO schemes system identification ESSA 1 satellite analysis (mathematics) value UF OT-3 . numerical analysis GS artificial satellites . . approximation estimating . meteorological satellites essentially non-oscillatory DEF A procedure for making a statistical . . ESSA satellites schemes inference about the numerical values of one or . ESSA 1 satellite finite difference theory more unknown population parameters from the RT Delta launch vehicle hyperbolic differential equations observed values in a sample. GS estimating
. orbital position estimation TVD schemes ESSA 2 satellite OT-2 esters . parameter identification GS artificial satellites . system identification GS esters . meteorological satellites . acrylates autoregressive moving average . . ESSA satellites alkylates budgeting . . ESSA 2 satellite aspartates contracts RT Delta launch vehicle . Carbamates (tradename) costs . urethanes counting ESSA 3 satellite carboxylates critical path method UF TOS-A chloroformate Delphi method (forecasting) GS artificial satellites . cobalt acetates ∞ design . meteorological satellites cyanurates estimates . . ESSA satellites . glutamates ∞ estimators ... ESSA 3 satellite glycerides evaluation Delta launch vehicle . isocyanates feasibility . . diisocyanates forecasting ESSA 4 satellite . fulminates measurement GS artificial satellites lactates mission planning . meteorological satellites . lead acetates numerical differentiation .. ESSA satellites . maleates pattern method (forecasting) . ESSA 4 satellite . meprobamate probe method (forecasting) RT Delta launch vehicle . nitrate esters profile method (forecasting) . . isopropyl nitrate projects **ESSA 5 satellite** . . propyl nitrate quality control artificial satellites . octoates reserves . meteorological satellites . organic nitrates risk . . ESSA satellites . . cellulose nitrate sampling . ESSA 5 satellite . . nitroforms standard deviation RT Delta launch vehicle . . . hydrazine nitroform statistical analysis . . nitroglycerin statistical tests ESSA 6 satellite . . PETŇ ∞ statistics GS artificial satellites phthalates technological forecasting . meteorological satellites polycarbonates value . . ESSA satellites . . Lexan (trademark) . ESSA 6 satellite polyesters RT Delta launch vehicle ∞ estimators . polyethylene terephthalate (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) sodium chlorodifluoroacetates ESSA 7 satellite sodium salicylates artificial satellites GS correlation . meteorological satellites stearates cost estimates . . ESSA satellites sulfonates estimating ESSA 7 satellite triacetin parameterization acetates Delta launch vehicle personnel acetyl compounds citrates ESSA 8 satellite Estonia cyanates artificial satellites GS nations . meteorological satellites lipids Estonia . . ESSA satellites nitrosyls RT Baltic sea .. ESSA 8 satellite organic compounds Europe RT Delta launch vehicle phosphatases plasticizers estrogens ESSA 9 satellite . salicylates GS artificial satellites Skydrol (trademark) GS organic compounds . lipids . meteorological satellites . . steroids estimates . . ESSA satellites estimates . . estrogens . ESSA 9 satellite GS . cost estimates secretions RT Delta launch vehicle allocations . endocrine secretions **ESSA** satellites comparison . . hormones DEF A series of NASA and NOAA satellites confidence limits . estrogens launched to monitor the Earth's weather. Those endocrine glands contingency funded by NASA are called TIROS, those contracts sex glands funded by NOAA are called ESSA. damage assessment GS artificial satellites estimating estuaries . meteorological satellites evaluation DEF (A) The seaward end or the widened funnel-shaped tidal mouth of a river valley where . . ESSA satellites forecasting ... ESSA 1 satellite likelihood ratio fresh water comes into contact with seawater ... ESSA 2 satellite management methods and where tidal effects are evident. ley due to ... ESSA 3 satellite management planning the rise of sea level.

noise prediction (aircraft)

parameter identification

production management

predictions

... ESSA 4 satellite

... ESSA 5 satellite

... ESSA 6 satellite

... ESSA 7 satellite

outlets (geology)

coasts

bays (topographic features) Chesapeake Bay (US)

|                | fisheries  | DEF      | Computer network protocol originally      | RT 。     | ∞ chemical compounds                      |
|----------------|--|----------|---|----------|---|
|                | geography  | develop  | ped in the 1970s for local area network   |          |   |
|                | harbors  | technol  | ogy; uses carrier sense multiple access   |          | e cyanide                                 |
|                | oceanography   | with co  | ollision detection (CSMA/CD), coaxial     |          | led April 2004)                           |
|                | rivers   | cable, a | and broadcast transmission.               | USE      | succinonitrile                            |
|                | tidal flats  | GS       | protocol (computers)                      | athudan  | a dibudratina                             |
|                | tides  |          | . Ethernet                                |          | ne dihydrazine<br>hydrazines              |
|                | tributaries  | RT       | carrier sense multiple access             | GS       | •   |
| atalana        |  |          | computer networks                         |          | . ethylene dihydrazine                    |
| etalons<br>DEF |  |          | local area networks                       |          | organic compounds                         |
|                | Two adjustable parallel mirrors d so that either one may serve as one of |          |   |          | . ethylene compounds                      |
|                | ors in a Michelson interferometer; used                                  | ethers   | and the second                            |          | ethylene dihydrazine                      |
|                | sure distance in terms of wavelengths of                                 | GS       | ethers                                    | ethylen  | ne oxide                                  |
| spectral       |  |          | . acetals                                 | GS       | epoxy compounds                           |
| GS             | measuring instruments  |          | . anisole                                 |          | . ethylene oxide                          |
| 00             | . interferometers  |          | . diethyl ether                           |          | organic compounds                         |
|                | etalons  |          | . gallamine triethiodide                  |          | . cyclic compounds                        |
|                | . optical measuring instruments  | RT       | . polyphenyl ether anesthetics            |          | heterocyclic compounds                    |
|                | etalons  | IXI      | drugs                                     |          | ethylene oxide                            |
|                | mirrors  |          | epoxy compounds                           | RT       | bactericides                              |
|                | . etalons  |          | organic compounds                         |          | chemical sterilization                    |
|                | optical equipment  |          | PEEK                                      |          | decontamination                           |
|                | . optical measuring instruments  |          | propargyl groups                          |          | oxides                                    |
|                | etalons  |          | propargyr groups                          |          | spacecraft sterilization                  |
| RT             | astronomical interferometry  | ethics   |   |          | ·   |
|                | diffractometers  | DEF      | The standards of conduct and moral        | ethylen  | nediamine                                 |
|                | Fabry-Perot interferometers  |          | nt of a group, religion, profession, etc. | GS       | organic compounds                         |
|                | flatness   |          | ∞ methodology                             |          | . amines                                  |
|                | goniometers  |          | norms                                     |          | diamines                                  |
|                | optical measurement  |          | research                                  |          | ethylenediamine                           |
|                | photogoniometers   |          | 100001011                                 |          | . ethylene compounds                      |
|                | reflectors   | Ethiop   | ia  |          | ethylenediamine                           |
|                | Ronchi test  | GS       | nations                                   |          |   |
|                | Sagnac effect  |          | . Ethiopia                                |          | nediaminetetraacetic acids                |
|                | specular reflection  | RT       | Africa                                    | UF       | EDTA                                      |
|                | telescopes   |          |   | GS       | acids                                     |
|                | very long base interferometry  | ethnic   | factors                                   |          | . carboxylic acids                        |
|                |  | DEF      | The complex patterns of behavior          |          | . fatty acids                             |
| eta-mes        |  | which o  | distinguish an ethnic group.              |          | acetic acid                               |
| GS             | particles  | GS       | sociology                                 |          | ethylenediaminetetraacetic                |
|                | . elementary particles   |          | . social factors                          |          | acids                                     |
|                | bosons   |          | ethnic factors                            |          | organic compounds                         |
|                | mesons   | RT       | American Indians                          |          | . carboxylic acids                        |
|                | eta-mesons   |          | communities                               |          | fatty acids                               |
|                | fermions   |          | culture (social sciences)                 |          | acetic acid                               |
|                | eta-mesons   |          | group dynamics                            |          | ethylenediaminetetraacetic                |
|                | hadrons  |          | race factors                              |          | acids                                     |
|                | mesons   |          |   |          | . ethylene compounds                      |
|                | eta-mesons   |          | ethylene                                  | RT       | ethylenediaminetetraacetic acids acetates |
|                | . nuclear particles  | GS       | organic compounds                         | KI       |   |
|                | bosons   |          | . ethylene compounds                      |          | detergents                                |
|                | mesons   |          | ethoxy ethylene                           | etiology | v   |
| DT             | eta-mesons   |          | Land of                                   |          | The doctrine of causes, particularly the  |
| RT             | baryons charged particles  | ethyl a  |   |          | and reasons for diseases.                 |
|                | omega-mesons   |          | ethanol                                   | RT       | case histories                            |
|                | rho-mesons   | GS       | hydroxyl compounds                        |          | causes                                    |
|                | sigma-mesons   |          | . alcohols                                |          | diseases                                  |
|                | Sigina-mesons  | RT       | ethyl alcohol atmospheric energy sources  |          | prevention                                |
| etchant        | s  | KI       | carbohydrates                             |          | •   |
| RT             | corrosion  |          | carbonydrates                             | ETR (re  | eactors)                                  |
|                | etching  | ethyl c  | ompounds                                  | USE      | engineering test reactors                 |
|                |  |          | ∞ chemical compounds                      | ==0      |   |
| etching        |  |          | diethyl compounds                         |          | ries satellites                           |
| GS             | etching  |          | diethyl hydrogen phosphite (DEHP)         | •        | led October 1997)                         |
| DT             | . plasma etching   |          | tetraethyl orthosilicate                  | USE      | Engineering Test Satellites               |
| RT             | corrosion  |          | triethyl compounds                        | Ettingsk | hausan coolars                            |
|                | engraving  |          | anomy: compounds                          |          | hausen coolers Ettingshausen effect       |
|                | erosion  | ethyler  | ne  | USE      | thermoelectric cooling                    |
|                | etchants   | GS       | organic compounds                         |          | thermoelectric cooling                    |
|                | metallography  |          | . hydrocarbons                            | Fttings  | hausen effect                             |
|                | photoresists   |          | aliphatic hydrocarbons                    | UF       | Ettingshausen coolers                     |
|                | pitting  |          | alkenes                                   | RT       | cooling systems                           |
|                | ultrasonic cleaning  |          | ethylene                                  |          | ∞ effects                                 |
| ethane         |  |          | vinylidene                                |          | temperature effects                       |
| GS             | organic compounds  | RT       |   |          | thermoelectric cooling                    |
|                | . hydrocarbons   |          | plant growth regulators                   |          | thermoelectricity                         |
|                | aliphatic hydrocarbons   |          | polyethylenes                             |          | thermomagnetic cooling                    |
|                | alkanes  |          |   |          | thermomagnetic effects                    |
|                | ethane   | ethyler  | ne compounds                              |          | -   |
| RT             | hydrocarbon fuels  | ĞS       | organic compounds                         |          | ean geometry                              |
| 04b            | mituila  |          | ethylene compounds                        | UF       | Euclidean space                           |
| ethane i       |  |          | chloroethylene                            | GS       | geometry                                  |
| USE            | acetonitrile   |          | trichloroethylene                         |          | Euclidean geometry                        |
| ethanol        |  |          | ethoxy ethylene                           |          | analytic geometry                         |
| USE            | ethyl alcohol  |          | ethylene dihydrazine                      |          | catenaries                                |
|                | •  |          | ethylenediamine                           |          | circumferences                            |
| Etherne        |  |          | ethylenediaminetetraacetic acids          |          | conics                                    |
| (adde          | ed January 2000)   |          | succinonitrile                            |          | ellipses                                  |

|         | hyperbolas                                       |                 | biological evolution   |        | Galilean satellites                                     |
|---------|--|-----------------|--|--------|---|
|         | parabolas  |                 | cytology   | рт     | Europa  |
|         | cycloids   |                 | molecular biology  | RI     | Charon  |
|         | epicycloids<br>loci                              |                 | prokaryotes  |        | extraterrestrial oceans<br>extraterrestrial water       |
|         | Mercator projection                              | Euler b         | uckling  |        | Jupiter (planet)  |
|         | quadrants  |                 | buckling   |        | Jupiter (planet)  |
|         | S curves   |                 | . Euler buckling   | Europa | 1 launch vehicle  |
|         | Gompertz curves                                  | RT              | stress analysis  | GŚ     | launch vehicles   |
|         | spheroids  |                 |  |        | . Europa launch vehicles                                |
|         | oblate spheroids                                 |                 | quations of motion   |        | Europa 1 launch vehicle                                 |
|         | prolate spheroids                                | GS              | equations of motion  | F      | 2 laurah yahiala  |
|         | tangents   | DT .            | . Euler equations of motion  o equations   | GS     | 2 launch vehicle<br>launch vehicles                     |
|         | toruses trigonometry                             | IXI V           | Godunov method   | 00     | . Europa launch vehicles                                |
|         | angles (geometry)                                |                 | hydrodynamics  |        | Europa 2 launch vehicle                                 |
|         | angle of attack                                  |                 | moments of inertia   | RT     | COS-B satellite   |
|         | zero angle of attack                             |                 | primitive equations  |        |   |
|         | Bragg angle                                      |                 | rigid structures   |        | 3 launch vehicle  |
|         | Brewster angle                                   |                 | upwind schemes (mathematics)   | GS     |   |
|         | dihedral angle                                   | Eulor P         | ernoulli beam theory   |        | . Europa launch vehicles                                |
|         | elevation angle                                  |                 | ed April 1998)   |        | Europa 3 launch vehicle                                 |
|         | look angles (electronics) look angles (tracking) |                 | Euler-Bernoulli beams  | Europa | 4 launch vehicle  |
|         | sweep angle                                      |                 |  |        | launch vehicles   |
|         | sweepback  | Euler-B         | ernoulli beams   |        | . Europa launch vehicles                                |
|         | leading edge sweep                               |                 | ed April 1998)   |        | Europa 4 launch vehicle                                 |
|         | Cartesian coordinates                            | UF              | Euler-Bernoulli beam theory  |        |   |
|         | circles (geometry)                               | GS              | structural members   |        | launch vehicles   |
|         | great circles                                    |                 | . beams (supports)   | GS     |   |
|         | descriptive geometry                             | RT              | Euler-Bernoulli beams axial strain   |        | . Europa launch vehicles Europa 1 launch vehicle        |
|         | lines (geometry)                                 | IXI             | bending  |        | Europa 2 launch vehicle                                 |
|         | chords (geometry) geodesic lines                 |                 | bending vibration  |        | Europa 3 launch vehicle                                 |
|         | points (mathematics)                             |                 | dynamic structural analysis  |        | Europa 4 launch vehicle                                 |
|         | fixed points (mathematics)                       |                 | elastic properties   | RT     | Ariane launch vehicle                                   |
|         | inflection points                                |                 | mathematical models  |        | Eldo launch vehicle                                     |
|         | polygons   |                 | partial differential equations   |        | European Space Agency                                   |
|         | hexagons   |                 | structural analysis  |        | European space programs   vehicles                      |
|         | tetragons  |                 | Timoshenko beams   |        | • verlicies   |
|         | parallelograms rhomboids                         | Euler-C         | auchy equations  | Europe |   |
|         | rectangles                                       | GS              | analysis (mathematics)   | GS     | continents  |
|         | squares (mathematics)                            |                 | real variables   |        | . Europe  |
|         | trapezoids                                       |                 | differential equations   |        | Central Europe  |
|         | triangles  |                 | partial differential equations   | RT     | Albania   |
|         | polyhedrons                                      | DT              | Euler-Cauchy equations   |        | Alps Mountains (Europe) Andorra                         |
|         | cubes (mathematics)                              | RT              | complex variables conformal mapping  |        | Armenia   |
|         | icosahedrons                                     | 0               | equations  |        | Austria   |
|         | octahedrons parallelepipeds                      |                 | vector analysis  |        | Azerbaijan  |
|         | parallelepipeus<br>pyramids                      |                 | •  |        | Baltic Shield (Europe)                                  |
|         | rhombohedrons                                    |                 | n nutation   |        | Belarus   |
|         | tetrahedrons                                     | USE             | Chandler wobble  |        | Belgium   |
|         | projective geometry                              | Eulant          |  |        | Bosnia and Herzegovina                                  |
|         | Mercator projection                              |                 | agrange equation   |        | Bulgaria  |
|         | radii  |                 | Lagrange equations of motion equations of motion                                 |        | Carpathian Mountains (Europe Commonwealth of Independen |
| DT      | Larmor radius                                    | 00              | . Euler-Lagrange equation  |        | States  |
| RT      | coordinates                                      | RT              | calculus of variations   |        | Croatia   |
|         | curves (geometry)<br>phase-space integral        |                 | Castigliano variational theorem  |        | Czech Republic  |
|         | polytopes  |                 | classical mechanics  |        | Czechoslovakia  |
|         | Riemann manifold                                 | ۰               | o equations  |        | Denmark   |
|         | Sobolev space                                    |                 | extremum values  |        | East Germany<br>England                                 |
|         | spheres  |                 | Lagrangian function  |        | England<br>Estonia                                      |
| lida    | -n -n  | Fuler-l         | ambert equation  |        | European Union  |
| USE     | an space<br>Euclidean geometry                   |                 | elliptical orbits  |        | Finland   |
| OOL     | Euclidean geometry                               | ۰               | ∘ equations  |        | France  |
| eudiom  | eters  |                 |  |        | Georgia (Eurasia)                                       |
| GS      | measuring instruments                            | Eureca          |  |        | Germany   |
|         | . eudiometers                                    |                 | A Space Shuttle launched retrievable   |        | Gibraltar   |
| RT      | gas mixtures                                     |                 | nous space platform being developed by   |        | Greece  |
|         | spark ignition                                   |                 | opean Space Agency. First launch is ed for 1991 with first retrieval 6 months    |        | Hungary<br>Iceland                                      |
| Euglena | a  |                 | sed for European Retrievable Carrier.  |        | Italy   |
| GS      | animals  | UF              | •  |        | Latvia  |
|         | . protozoa                                       | GS              | space platforms  |        | Liechtenstein   |
|         | Flagellata                                       |                 | Eureca (ESA)   |        | Lithuania   |
|         | Euglena  | RT              | space shuttles   |        | Luxembourg  |
|         | microorganisms                                   | E               |  |        | Middle East   |
|         | . protozoa                                       | Europa          |  |        | Moldova   |
|         | Flagellata<br>Euglena                            | DEF<br>distance | A satellite of Jupiter orbiting at a mean of 671,000 kilometers. Also called Ju- |        | Monaco<br>nations                                       |
| RT      | algae  | piter II.       | 7 57 57 7,000 MIOITICIOIS. AISO CAIICA JU-                                       |        | Netherlands   |
| 131     |  | GS              | celestial bodies   |        | Northern Ireland  |
| eukaryo | otes   |                 | . natural satellites   |        | Norway  |
| GS      | cells (biology)                                  |                 | icy satellites   |        | Poland  |
|         | eukaryotes                                       |                 | Europa   |        | Portugal  |
| RT      | bacteria   |                 | Jupiter satellites   |        | Romania   |

#### European 1 spacecraft

Russian Federation lands, Sweden, and Switzerland. **HEOS** satellites San Marino ESO (observatory) Hipparcos satellite Scotland observatories Infrared Space Observatory (ISO) Serbska Republic . astronomical observatories International Magnetospheric Study Slovakia . European Southern Observatory International Satellite Geodesy Experiment Spain Sweden international cooperation IRIS satellites Switzerland man tended free flyers Turkey Marecs maritime satellites **European Space Agency** U.S.S.R. Mars Express DEF An international organization acting on METEOSAT satellite Ukraine behalf of its member states (Beogium, Denmark, United Kingdom OTS (ESA) France, Germany, Italy, the Netherlands, Spain, Vatican City Quasat Sweden, Switzerland, and the United Kingdom). Wales SOHO Mission ESA West Germany space missions **ESRO** Yugoslavia Symphonie satellites European Space Research . Organization European 1 spacecraft GS organizations European Space Research Organization artificial satellites GŚ . European Space Agency USE European Space Agency European 1 spacecraft Ariane launch vehicle Eldo launch vehicle Cassini mission European Space Research Organization sat Columbus module USE ESA satellites European Airbus Eldo launch vehicle Airbus ERS-1 (ESA satellite) GS commercial aircraft **European Union** ERS-2 (esa satellite) . European Airbus (added June 2005) **ESA** satellites . . A-300 aircraft Europe ESRO 1 satellite A-310 aircraft European Space Agency ESRO 2 satellite . . A-320 aircraft European space programs ESRO 4 satellite . . A-330 aircraft federations Europa launch vehicles . . A-340 aircraft international cooperation European space programs . A-380 aircraft international law European Union jet aircraft North Atlantic Treaty Organization EXPOS (Spacelab payload) . European Airbus (NATO) Geosari project . . A-300 aircraft United Nations ICL computers A-310 aircraft LIRTS (telescope) . . A-320 aircraft Marots (ESA) europium . A-330 aircraft . A-340 aircraft Mars Express GS chemical elements METEOSAT satellite . rare earth elements . . A-380 aircraft . . europium space programs passenger aircraft . . europium isotopes . European Airbus metals European space programs A-300 aircraft . rare earth elements GS programs A-310 aircraft . . europium . space programs A-320 aircraft ... europium isotopes European space programs . . A-330 aircraft . . . Austrian space program . . A-340 aircraft europium compounds Belgian space program . A-380 aircraft GS rare earth compounds Czechoslovakian space program transport aircraft Danish space program . europium compounds . European Airbus Finnish space program RT ∞ chemical compounds . . A-300 aircraft French space program ∞ metal compounds . . A-310 aircraft German space program . . A-320 aircraft Greek space program . . A-330 aircraft europium isotopes Hungarian space program GS chemical elements . . A-340 aircraft Icelandic space program . nuclides . A-380 aircraft Italian space program RT ∞ aircraft . . isotopes Luxembourg space program Netherlands space program international cooperation ... europium isotopes . rare earth elements Norwegian space program . . europium **European Communications Satellite** Portuguese space program . . europium isotopes artificial satellites Spanish space program metals Swedish space program . communication satellites . rare earth elements . . European Communications Swiss space program . . europium Turkish space program Satellite ... europium isotopes . ESA satellites UK space program . . European Communications Aerosat satellites eustachian tubes AMPTE (satellites) Satellite GS anatomy Ariane 4 launch vehicle ESA spacecraft . sense organs Ariane 5 launch vehicle ESA satellites Ariane launch vehicle . . European Communications . . eustachian tubes Azur satellite Satellite RT eardrums Cassini mission RT European space programs ∞ tubes Cluster Mission OTS (ESA) Committee on Space Research COS-B satellite eutectic alloys European Incoherent Scatter Radar USE EISCAT radar system (Europe) DIAL satellite Earthnet eutectic alloys ESA satellites binary systems (materials) European Large Telecomm Satellite USE L-Sat ESRO 1 satellite . binary mixtures ESRO 2 satellite .. eutectics ESRO 4 satellite .. eutectic alloys European Retrievable Carrier USE Eureca (ESA) Europa launch vehicles mixtures European Communications Satellite . binary mixtures . . eutectics **European Southern Observatory** European Space Agency (added June 1996) European Union . . eutectic alloys DEF An astronomical observatory with sevalloying bismuth alloys Exosat satellite RT eral telescopes at La Silla, Chile. It ws established by and is jointly operated by Belgium, foreign policy lamella (metallurgy) French satellites

GEOS satellites (ESA)

superplasticity

Denmark, France, Germany, Italy, the Nether-

|          | whisker composites   | elimination                                       |               | . vaporizing  |
|----------|--|---|---------------|---|
|          |  | ∞ evacuating                                      |               | evaporation   |
| DEF      | composites Composite materials with a metal ma-              | exhausting  |               | evapotranspiration                                  |
|          | mixture of solids including eutectoids.                      | gas pockets                                       |               | propellant evaporation                              |
| GS       | composite materials  | purging<br>removal                                | RT            | transpiration boiling                               |
|          | . metal matrix composites                                    | suction   | 131           | concentrating                                       |
|          | eutectic composites  | vacuum  |               | condensing  |
| RT       | alloys   | vacuum pumps                                      |               | dehydration   |
|          | directional solidification (crystals)                        | venting   |               | diffusion   |
|          | eutectics  | vents   |               | distillation  |
|          | fracture strength  | <b>-</b>  |               | drying  |
| ~        | matrices   | EVAL  |               | evanescence   |
|          | metals   | USE Earth Viewing Applications                    |               | evaporative cooling                                 |
|          | mixtures precipitation hardening                             | Laboratory  |               | evaporography                                       |
|          | precipitation nardening                                      | evaluation  |               | flashing (vaporizing) gas-liquid interactions       |
| eutectic | diagrams   | DEF The process of determining whether            |               | gas-metal interactions                              |
| USE      | phase diagrams   | an item or activity meets the specified criteria. |               | hydrological cycle                                  |
|          |  | GS evaluation                                     |               | liquid-vapor interfaces                             |
| eutectio |  | . training evaluation                             |               | perspiration  |
| GS       | binary systems (materials)                                   | RT accelerated life tests                         |               | reservoirs  |
|          | . binary mixtures  | acceptability                                     |               | respiratory system                                  |
|          | eutectics eutectic alloys                                    | ∞ analyzing                                       | c             | ∞ separation  |
|          | mixtures   | approach and landing tests (STS)                  |               | skin (anatomy)                                      |
|          | . binary mixtures  | assessments certification                         |               | sublimation   |
|          | eutectics  | ∞ classifying                                     |               | volatility  |
|          | eutectic alloys  | comparison  |               | water loss  |
| RT       | alloying   | computer systems performance                      | evanor        | ation rate  |
|          | alloys   | correlation                                       |               | The mass of material evaporated per                 |
|          | eutectic composites  | costs   |               | e from unit surface of a liquid or solid.           |
|          | liquid phases  | criteria  | The nu        | mber of molecules of a given substance              |
|          | phase diagrams   | crop identification                               |               | ated per second per square centimeter               |
|          | solid phases   | ∞ discussion                                      | from the      | e free surface of the condensed phase.              |
|          | solutions  | economics   | GS            | rates (per time)                                    |
|          | syntectic alloys   | estimates   |               | evaporation rate                                    |
| eutroph  | ication  | estimating  | RT            | heat transfer coefficients                          |
|          | The process by which waters become                           | examination<br>feasibility                        | ovanor        | ative cooling                                       |
|          | trophic; especially the artificial or natural                | figure of merit                                   |               | ative cooling cooling                               |
| enrichm  | ent of a lake by an influx of nutrients                      | forecasting                                       | 93            | . evaporative cooling                               |
|          | for the growth of aquatic plants such as                     | ∞ indication                                      |               | film cooling  |
| _        | at are vital for fish and animal life.                       | inspection  |               | sweat cooling                                       |
| RT       | environment effects  | management  | RT            |   |
|          | lakes  | ∞ measurement                                     |               | cooling systems                                     |
| ~        | nutrients  | normalizing (statistics)                          |               | cryogenic fluid storage                             |
| EUVE     |  | observation                                       |               | evaporation   |
| USE      | Extreme Ultraviolet Explorer                                 | ∞ performance                                     |               | propellant evaporation                              |
|          | satellite  | performance prediction                            |               | surface cooling                                     |
|          |  | position (title)<br>proving                       | evapor        | ators   |
| euxenit  | e  | quality   | GS            | heating equipment                                   |
| GS       | minerals   | ranking   | 00            | . vaporizers  |
| БТ       | euxenite   | ratings   |               | evaporators   |
| RT       | niobates<br>oxides   | rejection   |               | separators  |
|          | titanates  | reserves  |               | evaporators   |
|          | litariates   | reviewing   | RT            | air conditioning equipment                          |
| EVA      |  | selection   |               | atomizers   |
| USE      | extravehicular activity                                      | statistical correlation                           |               | concentrators                                       |
|          | -  | technology assessment                             |               | condensers (liquefiers)                             |
| evacua   | •  | ∞ tests   |               | cooling systems                                     |
| SN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | timber identification value                       |               | drying apparatus                                    |
|          | LISTED BELOW)  | value   |               | heat exchangers refrigerating machinery             |
| RT       | evacuating (transportation)                                  | evanescence                                       |               | romgorating machinery                               |
|          | evacuating (vacuum)  | RT evanescent waves                               | evapor        | ography   |
|          | ! (tt-t!)  | evaporation                                       |               | evaporation   |
| SN       | ing (transportation)<br>(LIMITED TO CLEARANCE OF             | surface properties                                |               | images  |
| SIN      | PERSONNEL, ANIMALS, OR MATERIAL                              | transpiration                                     |               | infrared radiation                                  |
| DEE      | FROM A GIVEN LOCALITY)                                       |   |               | photography   |
| DEF      | The organized withdrawal or removal                          | evanescent waves                                  | aa.a.4        |   |
| measure  | e from a place or area as a protective                       | (added March 1998)<br>GS surface waves            |               | ranspiration Loss of water from a land area through |
|          | C-9 aircraft   | . evanescent waves                                |               | ation of plants and evaporation from the            |
|          | casualties   | RT acoustic impedance                             |               | I surface-water bodies. Also, the volume            |
|          | civil defense  | evanescence                                       |               | r lost through evapotranspiration.                  |
|          | ejection   | fiber optics                                      | GS            |   |
|          | elimination  | internal waves                                    |               | . vaporizing  |
| ~        | evacuating   | plane waves                                       |               | evaporation   |
|          | hospitals  | propagation modes                                 |               | evapotranspiration                                  |
|          | mobile quarantine facility                                   | reflected waves                                   | RT            | transpiration                                       |
|          | removal  | wave propagation                                  |               | vadose water  |
|          | transportation   | ∞ waves   | ovecim        | e actions   |
|          | unloading  | evaporation                                       | evasive<br>GS |   |
| evacuat  | ing (vacuum)   | DEF The physical process by which a liquid        | 00            | . evasive actions                                   |
| UF       | gas evacuating   | or solid is transformed into the gaseous state;   | RT            | electronic warfare                                  |
| RT       | drainage   | the opposite of condensation.                     | -             | obstacle avoidance                                  |
|          | ejection   | GS phase transformations                          |               | pursuit-evasion games                               |
|          |  |   |               |   |

tactics extinction mineral exploration terrain following gene expression mining pits (excavations) warfare genetics arowth strip mining evasive satellites underground structures heredity GS artificial satellites interstellar extinction . evasive satellites ontogeny  $\, \infty \, \, exchangers \,$ maneuverable spacecraft species diffusion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN evasive satellites military spacecraft evolution (liberation) GS evolution (liberation) RT heat exchangers evection gas evolution lunar orbits USE boiling exchanging orbit perturbation desorption GS exchanging solar gravitation ∞ evolution . charge exchange outgassing . . resonance charge exchange even-even nuclei transpiration . gas exchange GS particles vaporizing . ion exchanging . charged particles . spin exchange . . energetic particles evolvable hardware RT ∞ conversion ... nuclei (nuclear physics) (added September 2001) deionization . . even-even nuclei Reconfigurable hardware devices that separation . corpuscular radiation can be dynamically changed by evolutionary ∞ shift . . energetic particles algorithms or other adaptive processes. transferring ... nuclei (nuclear physics) UF EHW (computers) ... even-even nuclei reconfigurable hardware GS RT nuclear structure evolvable hardware excimer lasers odd-even nuclei design optimization DEF Molecular lasers using vibronic transiodd-odd nuclei field-programmable gate arrays tions whose lasing medium is a dimer that exists genetic algorithms in the excited state and dissociates in the evening ground state. hardware integrated circuits logic circuits RT daytime GS stimulated emission devices night . lasers . . gas lasers sunset logic design . . excimer lasers neural nets event horizon RT electron pumping self repairing devices (added August 1990) fluorides DEF The smallest radius of observable EVS halogens events around a black hole. laser deposition USF enhanced vision horizon laser outputs event horizon lasing exactness black holes (astronomy) precision optical pumping USE cosmology pulsed laser deposition gravitation theory examination ∞ rare gas compounds naked singularities examination xenon chloride lasers GS relativity xenon fluoride lasers . eve examinations Schwarzschild metric acceptability white holes (astronomy) ∞ analyzing excimers characterization Molecules characterized by repulsive events clinical medicine or very weakly bound ground electronic states. GS events comparison RT electron orbitals consecutive events conical scanning electron states RT occurrences detection electron transitions probability density functions diagnosis intermolecular forces probability theory molecular energy levels statistical analysis evaluation ∞ rare gas compounds statistical distributions exploration stochastic processes inspection investigation Everglades (FL) Addition of energy to a nuclear, atomic ∞ measurement RT Florida or molecular system transferring it to another energy state. Used for excited states. observation ∞ performance evoked response (psychophysiology) proving excited states physiological responses reviewing excitation psychophysiology . atomic excitations scanning . molecular excitation ∞ evolution training evaluation . photoexcitation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ultrasonic flaw detection . self excitation . wave excitation biogeny . . acoustic excitation excavation chemical evolution The act or process of removing soil . harmonic excitation evolution (development) and/or rock materials from one location and activation evolution (liberation) transporting them to another. It includes digging, actuation blasting, breaking, loading, and hauling, either existence atomic energy levels at the surface or underground. Also, a pit, cavity, auroral ionization evolution (development) hole, or other uncovered cutting produced by auroral irradiation GS evolution (development) excavation or the material dug out in making a electromagnetic absorption . biological evolution channel or cavity. Used for ditching (excavation) electron states electron transitions . abiogenesis ditching (excavation) excavation . chemical evolution GS emission . galactic evolution tunneling (excavation) energy levels . lunar evolution boreholes frequency response . planetary evolution construction ionization ∞ ditching . solar system evolution irradiation . stellar evolution drainage laser induced fluorescence . . star formation exploration metastable state . stellar mass accretion radiation trapping foundations lunar excavation equipment relaxation time  $\mathsf{RT} \mathrel{<\!\!\!>} \mathsf{biology}$ materials handling ∞ development rotons

mineral deposits

starting

∞ evolution

|           | transition probabilities   |               | waste energy utilization                   |         | waste disposal waste energy utilization |
|-----------|--|---------------|--|---------|---|
| excited   | states   | exertion      |  |         | wastes                                  |
|           | excitation   | USE           | physical work                              |         |   |
|           |  | avhalati      |  | exhaust |   |
| exciton   | s  | exhalati      |  | USE     | exhaust gases                           |
| GS        | elementary excitations   | RT            | alveolar air<br>expired air                | exhaust | nozzles                                 |
|           | . excitons   |               | respirometers                              |         | exhaust nozzles                         |
| RT        | carrier mobility   |               | reophometere                               |         | . convergent-divergent nozzles          |
|           | electrical insulation  | exhaust       | clouds                                     |         | . plug nozzles                          |
|           | electrons  | DEF           | Clouds formed from the exhaust aero-       |         | . spike nozzles                         |
|           | energy bands   |               | aunch vehicle engines and boosters at      |         | . turbine exhaust nozzles               |
|           | holes (electron deficiencies)  |               | Ised for ground clouds and launch          | RT      | air ducts                               |
|           | ionic crystals<br>light (visible radiation)                                      | clouds.       |  |         | annular nozzles                         |
|           | optical properties   | UF            | ground clouds                              |         | base heating                            |
|           | photoelectromagnetic effects   | RT            | launch clouds<br>aerosols                  |         | conical nozzles divergent nozzles       |
|           | plasmons   |               | clouds                                     |         | ejectors                                |
|           | positronium  |               | exhaust gases                              | ~       | flow                                    |
|           | semiconductors (materials)   |               | launch vehicles                            |         | infrared suppression                    |
|           | spectra  |               | launching                                  |         | inlet nozzles                           |
|           | Suhl effect  |               | launching sites                            |         | jet engines                             |
|           |  |               | rocket exhaust                             | ~       | jet nozzles                             |
| exclusi   | on   |               | rocket launching                           |         | nozzle flow                             |
| RT        | elimination  |               | -1:44                                      |         | nozzle inserts                          |
|           | isolation  | exnausi<br>RT | diffusers                                  | ~       | nozzles                                 |
|           | Pauli exclusion principle  |               | conical nozzles<br>diffusers               |         | openings<br>outlets                     |
|           | rejection  | ~             | ejectors                                   |         | rocket engines                          |
| ۰         | separation   | ~             | e jet nozzles                              |         | skirts                                  |
|           |  |               | supersonic diffusers                       |         | Onnio                                   |
| excretion |  |               | vaneless diffusers                         | exhaust | systems                                 |
| RT        | expulsion  |               |  |         | afterburning                            |
|           | feces  |               | emission                                   |         | air conditioning                        |
|           | human wastes   |               | The movement of gaseous or other           |         | air pollution                           |
|           | perspiration urine   |               | and radiation from the nozzle of a         |         | blowers                                 |
|           | unine  |               | r other reaction engine.                   |         | chimneys                                |
|           |  | GS            | emission                                   |         | condensers (liquefiers)                 |
|           | ve aircraft  | RT            | . exhaust emission<br>gas-gas interactions |         | cooling systems<br>ducts                |
| USL       | general aviation aircraft passenger aircraft                                     | IXI           | gas-metal interactions                     |         | dust collectors                         |
|           | passenger an craft   |               | high temperature gases                     |         | ejectors                                |
|           |  |               | infrared radiation                         |         | elimination                             |
|           | ve systems (computers)   |               | jet exhaust                                |         | engines                                 |
| USE       | operating systems (computers)  |               | particle emission                          |         | exhausting                              |
|           |  |               | pollution transport                        |         | flues                                   |
| exercise  |  |               | releasing                                  |         | fuel tank pressurization                |
| USE       | physical exercise  |               | thermal emission                           |         | intake systems                          |
|           |  |               | volatile organic compounds                 |         | internal combustion engines             |
|           | e physiology   | ovhouse       | flow simulation                            |         | manifolds                               |
| GS        | physiology   |               | simulation                                 |         | mufflers                                |
| DT        | . exercise physiology  | 00            | . exhaust flow simulation                  |         | openings<br>outlets                     |
| KI        | circulatory system<br>human body   | RT            | flow distribution                          |         | pipe nozzles                            |
|           | locomotion   |               | mathematical models                        |         | plenum chambers                         |
|           | muscular tonus   |               | wind tunnels                               |         | ports (openings)                        |
|           | physical exercise  |               |  |         | rocket exhaust                          |
|           | physical fitness   | exhaust       |  | ∞       | systems                                 |
|           | physiochemistry  | UF            | exhaust jets                               |         | temperature control                     |
|           | physiological effects  | GS            | gases                                      |         | ventilation                             |
|           | respiratory physiology   |               | . exhaust gases                            |         | ventilators                             |
|           | sports medicine  | RT            | flue gases air pollution                   |         | vents                                   |
|           | stress (biology)   |               | blasts                                     |         | waste disposal                          |
|           | stress (physiology)  |               | combustion efficiency                      | evhaust | velocity                                |
|           |  |               | combustion products                        |         | The velocity of gases or particles (e   |
| exergic   |  |               | diluents                                   |         | eam) that exhaust through the nozzle    |
|           | ed December 2000)  |               | effluents                                  |         | on engine, relative to the nozzle.      |
| USE       | exergy   |               | environment effects                        | GS      | rates (per time)                        |
|           |  |               | erosive burning                            |         | exhaust velocity                        |
| exergy    |  |               | exhaust clouds                             |         | velocity                                |
| ,         | ed December 2000)  |               | exhausting                                 |         | . exhaust velocity                      |
| DEF       | The maximum amount of external-  |               | fumes                                      | RT      | acoustic velocity                       |
|           | that could be drawn from a system or   |               | gas mixtures                               |         | critical velocity                       |
|           | energy in relation to a certain reference ment. Exergy is not considered to be a |               | gas recovery infrared suppression          |         | expulsion<br>flow velocity              |
|           | energy but a designation of the quality of                                       |               | jet blast effects                          |         | now velocity                            |
| energy.   | shorgy but a doorghadon of the quality of  |               | jet exhaust                                | exhaust | tina                                    |
| UF        | exergic energy   |               | nozzle flow                                | RT      | blowing                                 |
|           | • energy   |               | odors                                      |         | breathing vibration                     |
|           | energy budgets   |               | particulates                               |         | consumption                             |
|           | energy conservation  |               | pollution transport                        |         | decontamination                         |
|           | energy conversion efficiency   |               | propulsion                                 | ~       | discharge                               |
|           | energy dissipation   |               | reaction products                          |         | dispersing                              |
|           | entropy  |               | rocket exhaust                             |         | disposal                                |
|           | power efficiency   |               | smog                                       |         | dissipation                             |
|           | thermodynamic efficiency   |               | smoke                                      |         | ejection                                |
|           | thermodynamics   |               | smoke abatement                            |         | elimination                             |
|           | thermodynamics   |               | vapors                                     |         | evacuating (vacuum)                     |

exhaust gases exhaust systems relieving removal ventilation venting exhaustion consumption depletion fatigue (biology) hyperkinesia

existence

RT cosmology ∞ evolution life span validity

existence theorems GS analysis (mathematics) . real variables

. existence theorems theorems

. existence theorems problem solving

roots of equations

exits (doors) USE doors

exobiology

Field of biology that deals with the search for extraterrestrial life and the conditions that may give rise to life on other planets or elsewhere in the Universe. May also be defined to include the study of effects of extraterrestrial environments on living organisms. Used for astrobiology and space biology.

astrobiology space biology aerospace environments Apollo extension system bioastronautics ∞ biology biomarkers carbonaceous meteorites

chemical evolution environment models extraterrestrial life extraterrestrial water life support systems lunar environment Mars Pathfinder panspermia

planetary environments planetary protection spacecraft contamination spacecraft environments spacecraft sterilization terraforming

exophoria

USE heterophoria

exoplanet detection (added January 2003) USE planet detection

exoplanets (added April 2001)

#### **EXOS** satellites

GS artificial satellites . scientific satellites

USE extrasolar planets

.. EXOS satellites

... EXOS-A satellite ... EXOS-B satellite

... EXOS-C satellite . . EXOS-D satellite

Japanese spacecraft

**EXOS** satellites . . EXOS-A satellite

**EXOS-B** satellite . . EXOS-C satellite . . EXOS-D satellite

## **EXOS** sounding rocket

GS rocket vehicles

. multistage rocket vehicles . EXOS sounding rocket sounding rockets

. EXOS sounding rocket Honest John rocket vehicle

Nike-Ajax missile solid propellant rocket engines XM-33 engine

#### **EXOS-A satellite**

(added February 1992) UF Kyokko satellite artificial satellites . scientific satellites . . EXOS satellites . . EXOS-A satellite Japanese spacecraft . EXOS satellites .. EXOS-A satellite

**Exosat satellite** 

UF HELOS (satellite) High Eccentric Lunar Occultation Satellite

artificial satellites GS

. ESA satellites . . Exosat satellite

. scientific satellites

. Exosat satellite ESA spacecraft

. ESA satellites

. Exosat satellite

eccentric orbits European space programs

lunar occultation x ray astronomy x ray sources

### **EXOS-B** satellite

Jikiken satellite artificial satellites . scientific satellites .. EXOS satellites . EXOS-B satellite Japanese spacecraft . EXOS satellites .. EXOS-B satellite

**EXOS-C** satellite

Ohzora satellite artificial satellites . scientific satellites . . EXOS satellites . EXOS-C satellite Japanese spacecraft . EXOS satellites

.. EXOS-C satellite

### **EXOS-D** satellite

Akebono satellite GS artificial satellites . scientific satellites . . EXOS satellites .. EXOS-D satellite Japanese spacecraft **EXOS** satellites .. EXOS-D satellite

(added February 1992)

# exoskeletons

RT anatomy arthropods body composition (biology) bones connective tissue musculoskeletal system

exosolar planets

(added April 2001) USE extrasolar planets

#### exosphere

SN (ALTITUDES ABOVE APPROXIMATELY 500 KM)
The outermost, or topmost, portion of

the atmosphere. Its lower boundary is the critical level of escape, variously estimated at 500 to 1000 kilometers above the Earth's surface.

GS Earth atmosphere

. upper atmosphere

. . exosphere

RT Earth ionosphere Earth magnetosphere heterosphere planetary magnetotails radiation belts thermosphere

#### exothermic reactions

GS chemical reactions . exothermic reactions

association reactions combustion combustion chemistry combustion synthesis endothermic reactions incendiary ammunition pyrolysis thermal decomposition

#### expandable structures

#### GS expandable structures

. bellows

. inflatable structures

. . air bag restraint devices

. . balloons

... high altitude balloons

. . . . jimsphere balloons . . . . skyhook balloons

. . . . superpressure balloons

... meteorological balloons

. . . . jimsphere balloons .... ROBIN balloons

. . . microballoons . . . tethered balloons

. . ballutes . . gas bags

. . inflatable gliders

. . inflatable spacecraft

. . . Beacon satellites

. . . . Beacon Explorer A . . . Explorer 22 satellite

RT expulsion bladders folding structures

large space structures orbital assembly space erectable structures

∞ spacecraft ∞ structures

variable geometry structures

#### expansion

UF enlarging expansion

gas expansion

. Karhunen-Loeve expansion

. Prandtl-Meyer expansion

. series expansion

thermal expansion

RT adiabatic conditions distortion elongation extensions inflating rarefaction relaxation (mechanics) swelling thermal buckling

expansion waves

# USE elastic waves

expectancy hypothesis GS hypotheses

expectancy hypothesis Monte Carlo method

probability density functions statistical analysis statistical distributions

#### expectation

contingency decision theory Fisher information forecasting reliability

#### expeditions

RT exploration ∞ missions

space flight ... Experimental Breeder Reactor 2 ... expired air alveolar air experimental gas cooled reactors exhalation expellants RT cough EGCR (reactor) expiration GS nuclear reactors ∞ discharge gas composition . gas cooled reactors metabolic wastes expulsion flushing . . experimental gas cooled rebreathing reactors respiration expendable stages (spacecraft) . nuclear research and test reactors booster recovery . . experimental gas cooled exploding conductor circuits booster rocket engines ÚSE circuits reactors exploding wires engines experimental organic cooled reactors multistage rocket vehicles EOCR (reactor) exploding conductors recoverable spacecraft nuclear reactors **USE** exploding wires reusable spacecraft . liquid cooled reactors rocket engines space shuttles . . organic cooled reactors exploding wires ... experimental organic cooled UF exploding conductor circuits stage separation exploding conductors reactors . nuclear research and test reactors explosive devices experience .. experimental organic cooled . initiators (explosives) education RT exploding wires reactors qualifications . organic moderated reactors igniters upgrading . initiators (explosives) . . experimental organic cooled ... exploding wires reactors experiment design (LIMITED TO DESIGN OF EXPERIMENTS--EXCLUDES PROTOTYPES) wire **Experimental Reflector Orbital Shot Proj** exploding wires EROS project boosters (explosives) UF design of experiments caps (explosives) GS programs experiment design GS conductors . projects factorial design . Experimental Reflector Orbital detonators covariance Shot Proj electric wire degrees of freedom plasma generators ∞ design experimental STOL transport rsch airplane primers (explosives) factor analysis USE Questol aircraft radiation transport laboratories shock waves mathematical models experimentation wire bridge circuits operations research experimentation orthogonality . Physics and Chemistry Experiment exploitation quality control in Space RT beneficiation regression analysis critical experiments depletion statistical analysis exploration ∞ development systems engineering investigation exploration Taguchi methods laboratories geology variance (statistics) phenomenology land use spaceborne experiments mines (excavations) experimental aircraft mining ÚSE research aircraft expert systems reserves (added August 1990) strip mining experimental boiling water reactors DEF Computer programs that manipulate symbolic information to produce the same re-EBWR (reactor) exploration GS nuclear reactors sults as human experts would. They deal with The search for deposits of useful min-. liquid cooled reactors uncertain data and make decisions on that data. erals or fossil fuels; prospecting, including under the oceans. It may include geologic reconnais-Input and design relies on human experts. Used for knowlege based systems. water cooled reactors ... boiling water reactors sance, e.g., remote sensing, photogeology, geo-.... experimental boiling water information systems GS physical and geochemical methods, and both . knowledge based systems reactors surface and underground investigations. Used expert systems artificial intelligence . nuclear research and test reactors for discovering and prospecting. . . experimental boiling water UF discovering reactors belief networks prospecting . water moderated reactors C (programming language) exploration . . experimental boiling water computer programming . mineral exploration reactors decision support systems . natural gas exploration knowledge bases (artificial . oil exploration Experimental Breeder Reactor 1 intelligence) . space exploration EBR-1 reactor knowledge representation . . lunar exploration GS nuclear reactors ∞ logic . Mars exploration . breeder reactors logic programming boreholes Experimental Breeder Reactor 1 natural language processing detection . fast nuclear reactors pilot support systems drilling Experimental Breeder Reactor 1 Prolog (programming language) examination . liquid cooled reactors systems health monitoring excavation . . liquid metal cooled reactors expeditions ... Experimental Breeder Reactor expiration experimentation RT ∞ breathing exploitation . nuclear research and test reactors death geological surveys geology geothermal technology .. Experimental Breeder Reactor 1 expired air expulsion Experimental Breeder Reactor 2 mortality investigation EBR-2 reactor respiration mines (excavations) OSS-1 payload nuclear reactors . breeder reactors expired air research **Experimental Breeder Reactor 2** GS gases reserves . fast nuclear reactors . gas mixtures sampling . Experimental Breeder Reactor 2 . . air space flight . liquid cooled reactors ... expired air surveys . . liquid metal cooled reactors mixtures underground acoustics

. solutions . . gas mixtures

. . . air

**Experimental Breeder Reactor** 

. nuclear research and test reactors

Explorer 1 satellite

GS artificial satellites

. scientific satellites . scientific satellites ... Explorer 22 satellite . . Explorer satellites . . Explorer satellites . scientific satellites ... Explorer 1 satellite Explorer 14 satellite . . Explorer satellites RT Delta launch vehicle Explorer 22 satellite Explorer 2 satellite expandable structures GS artificial satellites **Explorer 15 satellite** . inflatable structures . scientific satellites Energetic Particle Explorer C . . inflatable spacecraft . . Explorer satellites EPE-C . . . Beacon satellites ... Explorer 2 satellite GS artificial satellites . Explorer 22 satellite . scientific satellites inflatable space structures Explorer 3 satellite . . Explorer satellites . inflatable spacecraft GS artificial satellites Explorer 15 satellite . . Beacon satellites . scientific satellites Delta launch vehicle . . Explorer 22 satellite . . Explorer satellites space erectable structures ... Explorer 3 satellite **Explorer 16 satellite** . inflatable spacecraft GS artificial satellites . . Beacon satellites **Explorer 4 satellite** . scientific satellites . Explorer 22 satellite GS artificial satellites . . Explorer satellites Scout launch vehicle . scientific satellites Explorer 16 satellite . . Explorer satellites Scout launch vehicle Explorer 23 satellite ... Explorer 4 satellite GS artificial satellites Explorer 17 satellite . scientific satellites Explorer 5 satellite AE-A satellite . . Explorer satellites GS artificial satellites Atmosphere Explorer A Explorer 23 satellite . scientific satellites S-6 satellite RT Scout launch vehicle . . Explorer satellites artificial satellites Explorer 5 satellite . meteorological satellites Explorer 24 satellite . . Explorer 17 satellite AD/I satellite **Explorer 6 satellite** . scientific satellites GS artificial satellites GS artificial satellites . . Explorer satellites . scientific satellites . geophysical satellites Explorer 17 satellite . . Explorer satellites Explorer 6 satellite RT Delta launch vehicle Explorer 24 satellite . scientific satellites RT Scout launch vehicle . . Explorer satellites **Explorer 18 satellite** Explorer 6 satellite IMP-1 Explorer 25 satellite Thor Able rocket vehicle IMP-A AD/I B Interplanetary Explorer Air Density/Injun Explorer B Explorer 7 satellite S-74 satellite Injun Explorer GS artificial satellites artificial satellites artificial satellites . scientific satellites . lunar satellites . Injun satellites . . Explorer satellites Explorer 25 satellite .. Explorer 18 satellite ... Explorer 7 satellite . scientific satellites . scientific satellites . . Explorer satellites . . Explorer satellites **Explorer 8 satellite** Explorer 18 satellite Explorer 25 satellite GS artificial satellites interplanetary spacecraft RT Scout launch vehicle . scientific satellites Explorer 18 satellite . . Explorer satellites lunar spacecraft Explorer 26 satellite . . . Explorer 8 satellite Energetic Particle Explorer D EPE-D . lunar satellites UF Explorer 9 satellite . Explorer 18 satellite unmanned spacecraft GS artificial satellites GS artificial satellites . meteorological satellites
. Explorer 9 satellite space probes . scientific satellites . . Explorer satellites Explorer 18 satellite . Explorer 26 satellite RT Delta launch vehicle . scientific satellites RT Delta launch vehicle . . Explorer satellites Explorer 19 satellite . . Explorer 9 satellite Explorer 27 satellite UF BE C AD-A satellite RT Scout launch vehicle Air Density Explorer A artificial satellites Explorer 10 satellite Beacon Explorer C . meteorological satellites artificial satellites artificial satellites . geophysical satellites . . Explorer 19 satellite . scientific satellites . . Explorer satellites . scientific satellites Explorer 10 satellite . . Explorer satellites Explorer 27 satellite . scientific satellites . . Explorer satellites Explorer 19 satellite Scout launch vehicle RT Scout launch vehicle Explorer 10 satellite Explorer 28 satellite RT Delta launch vehicle IMP-3 IMP-C Explorer 20 satellite UF Ionosphere Explorer A Explorer 11 satellite artificial satellites GS artificial satellites Gamma Ray Astronomy Explorer . scientific satellites . lunar satellites artificial satellites . . Explorer satellites . scientific satellites .. Explorer 28 satellite Explorer 20 satellite . scientific satellites . . Explorer satellites RT Scout launch vehicle . . Explorer satellites Explorer 11 satellite .. Explorer 28 satellite RT Juno 2 launch vehicle Explorer 21 satellite lunar spacecraft IMP-2 . lunar satellites Explorer 12 satellite UF Energetic Particle Explorer A IMP-B Explorer 28 satellite EPE-A artificial satellites RT Delta launch vehicle . scientific satellites S-3 satellite . . Explorer satellites artificial satellites Explorer 29 satellite GS . geophysical satellites Explorer 21 satellite GS artificial satellites RT Delta launch vehicle . Explorer 12 satellite . geodetic satellites . scientific satellites . . Explorer 29 satellite . . Explorer satellites . scientific satellites **Explorer 22 satellite** . . Explorer satellites . Explorer 12 satellite BE B RT Delta launch vehicle Beacon Explorer B Explorer 29 satellite artificial satellites RT active satellites

. navigation satellites

passive satellites

. . Beacon satellites

. . Explorer 22 satellite

ANNA satellites

celestial geodesy

GEOS 1 satellite

Delta launch vehicle

UF

GS

Explorer 14 satellite

EPE-B

artificial satellites

Energetic Particle Explorer B

**Explorer satellites** LARGOS satellite . . Explorer satellites Radio Astronomy Explorer B PAGEOS satellite Explorer 39 satellite RAE 1 Scout launch vehicle RAE 2 Explorer 30 satellite RAE B UF SE-A **Explorer 40 satellite** GS artificial satellites GS artificial satellites Injun 5 satellite . scientific satellites . scientific satellites GS artificial satellites . . Explorer satellites . . Explorer satellites . scientific satellites . Explorer 49 satellite Explorer 30 satellite . . Explorer satellites RT Delta launch vehicle Scout launch vehicle Explorer 40 satellite Scout launch vehicle Explorer 50 satellite RT Explorer 31 satellite UF IMP-8 DME-A satellite Explorer 41 satellite IMP-J GS artificial satellites IMP-5 artificial satellites UF . scientific satellites IMP-G . scientific satellites artificial satellites . . Explorer satellites . . Explorer satellites Explorer 31 satellite . scientific satellites Explorer 50 satellite Thor Agena launch vehicle . . Explorer satellites Explorer 51 satellite . . . Explorer 41 satellite Explorer 32 satellite UF AE-C satellite AE-B satellite Explorer 42 satellite Atmosphere Explorer C Atmosphere Explorer B USE Uhuru satellite artificial satellites artificial satellites . scientific satellites . scientific satellites Explorer 43 satellite . . Explorer satellites . . Explorer satellites UF IMP-6 ... Explorer 51 satellite IMP-I Explorer 32 satellite Explorer 52 satellite artificial satellites Delta launch vehicle GS DEF The Hawkeye 1 satellite in the Explorer . scientific satellites series. Used for Hawkeye 1 satellite. **Explorer 33 satellite** . . Explorer satellites Hawkeye 1 satellite AIMP-1 Explorer 43 satellite artificial satellites AIMP-D Delta launch vehicle IMP-D . scientific satellites Explorer 44 satellite
DEF The tenth in a series of solar radiation . . Explorer satellites artificial satellites ... Explorer 52 satellite . scientific satellites . . Explorer satellites monitoring satellites launched from Wallops Is-Explorer 53 satellite Explorer 33 satellite land, VA on July 8, 1971, to measure x rays and GS artificial satellites RT Delta launch vehicle ultraviolet radiation from the sun. It was opera-. scientific satellites tional until June 3, 1978. Used for Solrad 10 . . astronomical satellites **Explorer 34 satellite** satellite. . . . SAS IMP-4 Solrad 10 satellite . Explorer 53 satellite IMP-F GS artificial satellites . . Explorer satellites GS artificial satellites . scientific satellites . Explorer 53 satellite . scientific satellites . . Explorer satellites observatories . . Explorer satellites Explorer 44 satellite . Explorer 34 satellite . astronomical observatories Thor Agena launch vehicle Explorer 45 satellite . . astronomical satellites ...SAS DEF One in a long series of NASA scientific . Explorer 53 satellite Explorer 35 satellite satellites used to study the atmosphere, iono-AIMP-2 RT SAS-3 sphere, magnetosphere, interplanetary space, UF AIMP-E etc Explorer 54 satellite IMP-E artificial satellites UF AE-D satellite artificial satellites . geophysical satellites Atmosphere Explorer D . scientific satellites . . Explorer 45 satellite artificial satellites . . Explorer satellites scientific satellites . scientific satellites . Explorer 35 satellite . . Explorer satellites . . Explorer satellites RT Thor Agena launch vehicle ... Explorer 45 satellite Explorer 54 satellite Explorer 36 satellite Explorer 46 satellite Explorer 55 satellite artificial satellites DEF A satellite designed to study meteoroid AE-E satellite protective ability of spacecraft launched from Wallops Island, VA on August 13, 1972. Two scientific experiments also on board were to UF . geodetic satellites Atmosphere Explorer E artificial satellites . . Explorer 36 satellite . scientific satellites . scientific satellites determine the size and the velocity of meteor-. . Explorer satellites . . Explorer satellites . . Explorer 36 satellite oids. The velocity experiment failed to work due Explorer 55 satellite active satellites to excessive heat. Used for Meteoroid Technol-Delta launch vehicle ANNA satellites ogy Satellite. Meteoroid Technology Satellite celestial geodesy UF Explorer 71 satellite GEOS 2 satellite GS artificial satellites (added November 2000) LARGOS satellite . scientific satellites USE Advanced Composition Explorer PAGEOS satellite . . Explorer satellites Thor Agena launch vehicle Explorer 46 satellite Explorer 73 satellite (added November 2000) Explorer 37 satellite **Explorer 47 satellite** USE Transition Region and Coronal GS artificial satellites . UF *IMP-7* Explorer . scientific satellites IMP-H . . Explorer satellites artificial satellites Explorer 74 satellite

. scientific satellites

**Explorer 48 satellite** 

SAS

Explorer 49 satellite

SAS-2

GS artificial satellites

. . Explorer satellites

. scientific satellites

. . Explorer satellites

UF Radio Astronomy Explorer 2

Explorer 48 satellite

Explorer 47 satellite

Explorer 37 satellite

Explorer 38 satellite

Scout launch vehicle

artificial satellites

. scientific satellites

. . Explorer satellites

Delta launch vehicle

artificial satellites

. scientific satellites

**Explorer 38 satellite** 

Explorer 39 satellite

RAE-1

UF

GS

GS

# GS artificial satellites

Explorer 77 satellite

Explorer 78 satellite

**Explorer satellites** 

(added November 2000)

(added November 2000)

(added November 2000) USE IMAGE satellite

Satellite

Submillimeter Wave Astronomy

USE Far UV Spectroscopic Explorer

| . scientific satellites                                | Jupiter C rocket vehicle                            | deep drawing                              |
|--|---|---|
| Explorer satellites                                    | meteoroid dust clouds                               | electrohydraulic forming                  |
| Applications Explorer Satellites                       | micrometeoroids                                     | extruding                                 |
| Cosmic Background Explorer                             | outer planets explorers                             | shaped charges                            |
| satellite  | Scout project                                       |   |
| Dual Air Density Explorer                              | Thor Delta launch vehicle                           | explosive gases                           |
| Dynamics Explorer satellites                           | zodiacal dust                                       | USE flammable gases                       |
| Dynamics Explorer 1 satellite                          | explosion suppression                               | explosive welding                         |
| Dynamics Explorer 2 satellite                          | DEF Any method used to confine or s                 | •   |
| Explorer 1 satellite                                   | press an explosion.                                 | . explosive welding                       |
| Explorer 2 satellite                                   | RT fire prevention                                  | welding                                   |
| Explorer 3 satellite                                   | foams   | . pressure welding                        |
| Explorer 4 satellite                                   | retardants  | explosive welding                         |
| Explorer 5 satellite                                   |   | RT cladding                               |
| Explorer 6 satellite                                   | explosions  | metal bonding                             |
| Explorer 7 satellite                                   | DEF The sudden production of large qua              | an- metal joints                          |
| Explorer 8 satellite                                   | tities of gases, usually hot, from much sma         | ller metal working                        |
| Explorer 9 satellite                                   | amounts of gases, liquids, or solids.               | metal-metal bonding                       |
| Explorer 10 satellite                                  | GS explosions                                       |   |
| Explorer 11 satellite                                  | aerial explosions                                   | explosives                                |
| Explorer 12 satellite Explorer 14 satellite            | . chemical explosions                               | GS explosives                             |
| Explorer 15 satellite                                  | gas explosions                                      | . BSX                                     |
| Explorer 16 satellite                                  | propellant explosions                               | . cellulose nitrate<br>. dynamite         |
| Explorer 17 satellite                                  | . nuclear explosions                                | . HMX                                     |
| Explorer 18 satellite                                  | thermonuclear explosions                            | . hydrazine nitroform                     |
| Explorer 19 satellite                                  | . underground explosions<br>. underwater explosions | . hydrogen azides                         |
| Explorer 20 satellite                                  | RT accidents  | . nitrasol explosives                     |
| Explorer 21 satellite                                  | backfire  | . octol (explosive)                       |
| Explorer 22 satellite                                  | blast loads   | . pentolite                               |
| Explorer 23 satellite                                  | ∞ blasts  | . RDX                                     |
| Explorer 24 satellite                                  | bursts  | . styphnates                              |
| Explorer 25 satellite                                  | combustion  | . TATB                                    |
| Explorer 26 satellite                                  | detonation  | . tetryl                                  |
| Explorer 27 satellite                                  | ∞ discharge   | . trinitrotoluene                         |
| Explorer 28 satellite                                  | explosive decompression                             | RT ammonium picrates                      |
| Explorer 29 satellite                                  | explosives  | ammunition                                |
| Explorer 30 satellite                                  | fires   | azides (organic)                          |
| Explorer 31 satellite                                  | flame propagation                                   | bombs (ordnance)                          |
| Explorer 32 satellite                                  | ∞ flash   | burning rate                              |
| Explorer 33 satellite Explorer 34 satellite            | flashback   | case bonded propellants                   |
| Explorer 34 satellite                                  | hazards   | ∞ charging                                |
| Explorer 35 satellite                                  | hydrocarbon combustion                              | chemical explosions<br>chemical fuels     |
| Explorer 37 satellite                                  | implosions  | composite propellants                     |
| Explorer 38 satellite                                  | reactor safety<br>Riemann waves                     | detonators                                |
| Explorer 39 satellite                                  | safety  | double base propellants                   |
| Explorer 40 satellite                                  | shock waves   | double base rocket propellants            |
| Explorer 41 satellite                                  | sound pressure                                      | explosions                                |
| Explorer 43 satellite                                  | spontaneous combustion                              | fires                                     |
| Explorer 44 satellite                                  | warning systems                                     | flammable gases                           |
| Explorer 45 satellite                                  | <b>3</b> ,  | fulminates                                |
| Explorer 46 satellite                                  | explosive decompression                             | gun propellants                           |
| Explorer 47 satellite                                  | GS pressure reduction                               | guns (ordnance)                           |
| Explorer 48 satellite                                  | . explosive decompression                           | hazardous materials                       |
| Explorer 49 satellite                                  | RT explosions                                       | nitroglycerin                             |
| Explorer 50 satellite                                  | implosions  | nitroguanidine                            |
| Explorer 51 satellite                                  | pressure recovery                                   | nitromethane                              |
| Explorer 52 satellite                                  | pressurized cabins                                  | nuclear weapons                           |
| Explorer 53 satellite Explorer 54 satellite            | avalaniva daviana                                   | ordnance                                  |
| Explorer 55 satellite                                  | explosive devices  UF cartridge actuated devices    | PETN                                      |
| Extreme Ultraviolet Explorer                           | GS explosive devices                                | plastic propellants                       |
| satellite  | . bombs (ordnance)                                  | potassium perchlorates powder (particles) |
| Far UV Spectroscopic Explorer                          | . initiators (explosives)                           | propellants                               |
| IMP  | boosters (explosives)                               | pyrophoric materials                      |
| International Magnetospheric                           | caps (explosives)                                   | pyrotechnics                              |
| Explorer   | detonators  | shaped charges                            |
| International Sun Earth Explorers                      | exploding wires                                     | sodium azides                             |
| International Sun Earth Explorer                       | primers (explosives)                                | TAGN                                      |
| 1  | . nuclear devices                                   | torpedoes                                 |
| International Sun Earth Explorer                       | . shaped charges                                    | warheads                                  |
| 2  | . torpedoes   |   |
| International Sun Earth Explorer                       | RT actuators  | explosives detection                      |
| 3  | ammunition  | (added September 1995)                    |
| Advanced Composition Explorer                          | ∞ charging  | GS detection                              |
| IMAGE satellite  | ∞ devices   | . chemical detection                      |
| Micrometeoroid Explorer satellites                     | explosives detection                                | . explosives detection                    |
| Radio Astronomy Explorer satellite                     | igniters  | RT airport security                       |
| Solar Mesosphere Explorer                              | ∞ propellant actuated devices<br>warheads           | explosive devices                         |
| Solar Mesosphere Explorer Submillimeter Wave Astronomy | waiiledus   | ion mobility spectroscopy<br>terrorism    |
| Satellite  | explosive forming                                   | remonalii                                 |
| Transition Region and Coronal                          | GS forming techniques                               | exponential functions                     |
| Explorer   | . cold working                                      | GS analysis (mathematics)                 |
| Uhuru satellite  | explosive forming                                   | . complex variables                       |
| X Ray Timing Explorer                                  | metal working                                       | exponential functions                     |
| RT IUE   | . explosive forming                                 | logarithms                                |
| Juno 1 launch vehicle                                  | RT bulging  | functions (mathematics)                   |

|               | . transcendental functions exponential functions   |               | storage tanks                                  |          | propellant tanks Space Shuttle Ascent Stage          |
|---------------|--|---------------|--|----------|--|
|               | logarithms   | extars        |  |          | storage tanks  |
| RT            | Fourier analysis                                   | USE           | x ray stars                                    |          | wing tanks   |
|               | hyperbolic functions                               |               | and the second second                          |          | II. blave flava                                      |
|               | orthogonal functions                               |               | ed duration space flight                       | UF       | illy blown flaps<br>blown flaps                      |
|               | Poisson density functions                          | USE           | long duration space flight                     | OI.      | EBF  |
|               | probability density functions statistical analysis | extensi       | ons  | GS       | airfoils   |
|               | Weibull density functions                          | GS            | extensions                                     |          | . flaps (control surfaces)                           |
|               | ,,   |               | . prolongation                                 |          | externally blown flaps                               |
|               |  | RT            | accessories                                    |          | upper surface blown flaps                            |
| expone        |  |               | adapters                                       |          | control surfaces                                     |
| GS            | number theory                                      |               | contracts                                      |          | . flaps (control surfaces)                           |
| DT            | . exponents  |               | decontamination expansion                      |          | externally blown flaps<br>upper surface blown flaps  |
| RT            | arithmetic<br>fractals                             |               | filling  | RT       | blowing  |
|               | logarithms   |               | fittings                                       |          | jet flaps  |
|               | ioganii iiio                                       |               | insurance (contracts)                          |          | lift   |
|               |  |               | revisions                                      |          | lift devices   |
| exports       |  |               | supplements                                    |          | powered lift aircraft                                |
| USE           | international trade                                | avtana.       | a matara                                       |          | short takeoff aircraft                               |
|               |  | DEF           | Devices for determining the elongation         |          | spanwise blowing wing flaps                          |
| FYPOS         | (Spacelab payload)                                 |               | cimen as it is strained. Used for dilatom-     |          | wing naps wing nacelle configurations                |
|               | X ray spectropolarimetry payload for               | eters.        | omor do it lo otramou. Ocod for anatom         |          | Wing flacond configurations                          |
|               | b. Used for X Ray Spectropolarimetry               | UF            | dilatometers                                   | extincti |  |
| Payload       |  | GS            | measuring instruments                          | GS       | extinction   |
| UF            | X Ray Spectropolarimetry Payload                   |               | . extensometers                                | DT       | . interstellar extinction                            |
| GS            | payloads   | RT            | deformeters                                    | RT       | Cenozoic Era   |
|               | EXPOS (Spacelab payload)                           |               | dilatometry                                    |          | Cretaceous-Tertiary boundary evolution (development) |
| RT            | European Space Agency                              |               | elastometers                                   |          | extinguishing  |
|               | Spacelab   |               | mechanical measurement                         |          | fading   |
|               |  |               | strain gages<br>stress measurement             |          | fluorescence   |
| exposu        | re   |               | tensometers                                    |          | laser induced fluorescence                           |
| GS            | exposure   |               | thermal expansion                              |          | Nemesis (star)                                       |
|               | . weathering                                       |               | transducers                                    | ovtingui | ishors   |
|               | space weathering                                   |               |  | extingui | fire extinguishers                                   |
|               | . photoperiod                                      |               | l combustion engines                           | 002      | ino eximgalonolo                                     |
| RT            | atmospheric effects                                | GS            | engines  | extingu  |  |
|               | bearing (direction) bioavailability                |               | . external combustion engines Stirling engines | UF       | flame quenching                                      |
|               | cold tolerance                                     | RT            |  | GS       | extinguishing  |
|               | dosimeters   |               | boilers  | RT       | . flameout<br>burnout                                |
|               | irradiation  |               | gas turbine engines                            | IXI      | combustion   |
|               | photography  |               | internal combustion engines                    |          | extinction   |
|               | position (location)                                |               | piston engines                                 |          | occultation  |
|               | positioning  |               |  | ۰        | ∘ quenching  |
|               | radiation dosage                                   | externa<br>UF | Il store separation store release              |          | quenching (cooling)                                  |
|               | time   | RT            | nacelles                                       | extracti | ion  |
|               | trinitrotoluene                                    | IXI           | pods (external stores)                         | GS       | extraction   |
|               |  |               | protuberances                                  | 00       | . geothermal energy extraction                       |
| express       | ions (mathematics)                                 | c             | separation                                     |          | . ion extraction                                     |
| ÚSE           | formulas (mathematics)                             | c             | ∘ storage                                      |          | . solvent extraction                                 |
|               |  |               | wing tanks                                     | RT       | beds (process engineering)                           |
| avaula!       |  |               | wing-fuselage stores                           |          | beneficiation  |
| expulsi<br>RT | acceleration (physics)                             | ovtorna       | l stores                                       |          | centrifuges<br>centrifuging                          |
| IXI           | circuit protection                                 | GS            | external stores                                |          | columns (process engineering)                        |
|               | disposal   | 00            | . pods (external stores)                       |          | concentrating  |
|               | dumping  | RT            | nacelles                                       |          | dialysis   |
|               | ejection   |               | protuberances                                  |          | diffusion  |
|               | emptying   | c             | ∘ storage                                      |          | dissolving   |
|               | excretion  |               | wing tanks                                     |          | elution  |
|               | exhaust velocity                                   |               | wing-fuselage stores                           |          | filtration<br>furnaces                               |
|               | expellants expiration                              | evterns       | Il surface currents                            |          | hydrolysis   |
|               | fluid flow   | GS            | electric current                               |          | leaching   |
|               | gravity gradient satellites                        | 00            | . external surface currents                    |          | material absorption                                  |
|               | jettisoning  | RT o          | o currents                                     |          | materials recovery                                   |
|               | particle emission                                  |               | electric fields                                |          | melting  |
|               | pressurizing                                       |               | electromagnetic fields                         |          | osmosis  |
|               | removal  |               | electromagnetic missiles                       |          | percolation  |
|               | unloading  |               | electromagnetic pulses                         |          | recycling  |
|               |  |               | levitation melting photoelectric emission      |          | refining<br>removal                                  |
| evnulsi       | on bladders  |               | spacecraft charging                            |          | separation ∘   |
| GS            | diaphragms (mechanics)                             | c             | surfaces                                       | · ·      | solvents   |
| 00            | . expulsion bladders                               |               | system generated electromagnetic               |          | sorption   |
| RT            | bellows  |               | pulses   |          | washers (cleaners)                                   |
|               | ejection   |               | •  | =        | ,  |
|               | emptying   | externa       |  |          | lactic light   |
|               | expandable structures                              | UF            | Shuttle Superlightweight Tank                  | USE      | extraterrestrial radiation                           |
|               | fuel tank pressurization                           |               | SLWT (propellant tank)                         | extraga  | lactic media   |
|               | fuel tanks pressurizing                            | GS            | tanks (containers) . external tanks            | USĒ      | intergalactic media                                  |
|               | propellant storage                                 | RT            | fuel tanks                                     | Aytrana  | lactic radio sources                                 |
|               | propellant tanks                                   | 13.1          | nacelles                                       |          | celestial bodies                                     |
|               | • •  |               |  |          | <del>-</del>   |

. radio sources (astronomy) long duration space flight . . . . type 4 bursts . . extragalactic radio sources Mars bases . . type 5 bursts . . . radio galaxies Mercury surface ... cosmic microwave background radio jets (astronomy) space exploration radiation BL Lacertae objects space weathering . galactic radiation blazars spacecraft environments . . galactic cosmic rays extraterrestrial radiation Venus surface . . galactic radio waves extraterrestrial radio waves ... North Polar Spur (astronomy) quasars extraterrestrial intelligence . . galactic winds radiation sources DEF Intelligent life existing elsewhere than gamma ray bursts on Earth. gegenschein radio astronomy GS intelligence interstellar radiation radio emission extraterrestrial intelligence . lunar radiation ∞ sources interstellar communication . planetary radiation extrapolation interstellar travel . primary cosmic rays . solar cosmic rays finite difference theory Project SETI forecasting space communication . solar radiation unidentified flying objects interpolation . . circumsolar radiation periodic variations . . solar corpuscular radiation extraterrestrial life quality control . . . solar electrons statistical analysis DEF Life forms evolved and existing outside . . . solar neutrinos the terrestrial biosphere. ∞ tests ... solar neutrons life sciences time series analysis . . . solar protons . extraterrestrial life trends . . solar cosmic rays aerospace environments . . solar radio emission biofilms extrasensory perception . . . solar radio bursts parapsychology biomarkers . type 2 bursts perception biosatellites . . . type 3 bursts . . . . type 4 bursts exobiology extraterrestrial water . sensory perception . . extrasensory perception . . type 5 bursts life detectors solar wind extrasolar planet detection panspermia . . solar x-rays (added January 2003) Phoenix Mars Lander . sunlight planetary protection planet detection . stellar radiation . stellar winds extrasolar planets extraterrestrial matter . zodiacal light UF exoplanets GS extraterrestrial matter RT aerospace environments . cosmic gases exosolar planets ∞ aerospace sciences celestial bodies . . interplanetary gas atmospheric radiation interstellar gas . planets background radiation . extrasolar planets . cosmic plasma corpuscular radiation gas giant planets hypothetical planets RT . interstellar matter cosmic rays . . cosmic dust cosmic x rays planet detection . . . interplanetary dust CRRES (satellite) planetary systems .... meteoroid dust clouds Earth orbital environments . . zodiacal dust electromagnetic noise extraterrestrial communication . . dark matter electromagnetic radiation telecommunication interstellar gas electron acceleration . space communication cosmochemistry extragalactic radio sources extraterrestrial communication degenerate matter light (visible radiation) information dissemination matter (physics) Lyman alpha radiation interplanetary communication negative matter Lyman beta radiation radio telemetry Venus fly trap rocket vehicle microwave emission polarized electromagnetic radiation extraterrestrial environments extraterrestrial oceans polarized radiation GS environments (added June 2001) ∞ radiation . extraterrestrial environments SN DEF (EXCLUDES MAGMA OCEANS)
Extensive bodies of water on planets radiation belts . . cislunar space radiative transfer . . deep space and moons. radio jets (astronomy) ... interplanetary space UF planetary oceans radio waves satellite oceans . interstellar space Earth orbital environments ∞ rays GS oceans relic radiation . . lunar environment extraterrestrial oceans synchrotron radiation . lunar atmosphere RT Callisto system generated electromagnetic . . planetary environments Europa pulses extraterrestrial water . Mars environment terrestrial radiation . Mars atmosphere planetary surfaces x rays planetary atmospheres satellite surfaces . helium hydrogen atmospheres Jupiter atmosphere extraterrestrial radiation extraterrestrial radio waves Mars atmosphere Electromagnetic or particle radiation cosmic radio waves emitted from a source beyond the Earth atmo-Mercury atmosphere electromagnetic radiation Neptune atmosphere sphere. Used for extragalactic light and space . radio waves planetary ionospheres . . extraterrestrial radio waves Pluto atmosphere UF extragalactic light . . . galactic radio waves Saturn atmosphere space radiation .... North Polar Spur (astronomy) Uranus atmosphere extraterrestrial radiation . . . radio bursts Venus atmosphere . extraterrestrial radio waves . . . . solar radio bursts . Venus clouds . . galactic radio waves . . . . . type 2 bursts . . planetary magnetospheres . . . North Polar Spur (astronomy) . . . . type 3 bursts planetary magnetotails . . . . . type 4 bursts . . radio bursts . . satellite atmospheres . . . solar radio bursts . . . . type 5 bursts . . . . type 2 bursts lunar atmosphere solar radio emission . . . Titan atmosphere . . . . type 3 bursts . . . . solar radio bursts .... type 4 bursts .... type 5 bursts . . . . type 2 bursts . . stellar atmospheres . . . chromosphere . . . solar atmosphere . . . . type 4 bursts . . solar radio emission . . . . solar transition region aerospace environments . . . solar radio bursts . . . . type 5 bursts
. . . cosmic microwave background . . . . type 2 bursts

. . . . type 3 bursts

radiation

high gravity environments

extraterrestrial radiation THAT NAME DESIGNED FOR THE SPACE functions (mathematics) TRANSPORTATION SYSTEM)
Independent anthropometric space . extraterrestrial radio waves optimization . . galactic radio waves ∞ peaks suit systems that provide crew members with environmental protection, life support, mobility, . North Polar Spur (astronomy) probability theory . . radio bursts communications, and visibility while performing . . . solar radio bursts extroversion various extravehicular activities. . . . . type 2 bursts RT behavior GS clothing . . . . type 3 bursts human behavior . protective clothing psychology . . . . type 4 bursts . . pressure suits . . . . type 5 bursts . . . space suits . . solar radio emission extruding extravehicular mobility units . . . solar radio bursts UF hot extruding . suits . . . . type 2 bursts GS forming techniques . . pressure suits . . . . type 3 bursts . extruding ... space suits . . . . type 4 bursts . . pultrusion ... extravehicular mobility units . . . . type 5 bursts casting astronaut locomotion .. cosmic microwave background cladding astronaut maneuvering equipment radiation cold working Crew Equipment Translation Aid (ISS) centimeter waves dies extravehicular activity extragalactic radio sources microwave emission ∞ drawing **IMLSS** explosive forming life support systems injection molding microwaves self maneuvering units intrusion millimeter waves space transportation system metal spinning radio astronomy radio emission metal working extrema piercing radio frequency interference USE range (extremes) pressing (forming) radio jets (astronomy) squeeze casting radio sources (astronomy) Extreme Ultraviolet Explorer satellite DEF An Explorer satellite carrying scientific instruments for scanning the sky in the 100-900 wet spinning extraterrestrial resources eye (anatomy) Angstrom region of the spectrum to study the very hot celestial bodies (white dwarfs, for ex-GS resources GS anatomy extraterrestrial resources . sense organs ample). Used for EUVE.

UF EUVE . lunar resources . . eye (anatomy) in situ resource utilization EUVE . . . choroid membranes lunar exploration GS artificial satellites . . . conjunctiva planetary bases . scientific satellites . . . cornea space exploration . . Explorer satellites . . . oculomotor nerves space logistics ... Extreme Ultraviolet Explorer . . . pupils satellite . . . retina extraterrestrial roving vehicles IUE RT . . . fovea USE roving vehicles ultraviolet astronomy RT accommodation extraterrestrial water color vision extreme ultraviolet radiation DEF Ultraviolet emission in the 100-1000 face (anatomy) (added May 2005) Water beyond the surface, lithosphere, head (anatomy) Angstrom range.
GS electromagnetic radiation hydrosphere, and atmosphere of the Earth; inlenses cludes the water content of interstellar matter, miosis . ultraviolet radiation comets, planets, and satellites. nystagmus . extreme ultraviolet radiation GS water ophthalmodynamometry RT beams (radiation) extraterrestrial water ophthalmology ionizing radiation Europa optometry Magellan ultraviolet astronomy photoreceptors exobiology satellite extraterrestrial life vestibular nystagmus ∞ radiation extraterrestrial oceans solar radiation icy satellites Mars (planet) eye diseases extremely high frequencies Mars Reconnaissance Orbiter GS diseases (30 TO 300 GHZ) K band Phoenix Mars Lander . eye diseases planetary composition . . asthenopia KA band . . astigmatism V band extravehicular activity cataracts frequencies GS (ACTIVITY OUTSIDE THE SPACECRAFT) . . conjunctivitis . radio frequencies Activities by crew members conducted glaucoma microwave frequencies outside the spacecraft pressure hull or within the keratitis extremely high frequencies cargo bay when the cargo bay doors are open. . phoria RT ACTS EVA RT blindness millimeter waves spacewalks hyperopia RT ∞ activity extremely low frequencies ophthalmology AEPS (BELOW 300 HZ) SN aerospace environments ŪF ultralow frequencies eye dominance Apollo extension system GS dominance frequencies astronaut locomotion . radio frequencies . eye dominance astronaut maneuvering equipment extremely low frequencies vision Crew Equipment Translation Aid (ISS) audio frequencies extravehicular mobility units eye examinations low frequencies **IMLSS** Seafarer project GS examination intravehicular activity eye examinations man operated propulsion systems extremum values electronystagmography manned maneuvering units DEF In statistics, the upper or lower bound haploscopes of the random variable which is not expected to manned space flight ophthalmology orbital workers be exceeded by a specified percentage of the self maneuvering units population within a given confidence interval. eye movements analysis (mathematics) space flight GS eye movements space maintenance . real variables . nvstagmus Space Shuttle payloads . . extremum values vestibular nystagmus umbilical connectors . . . limits (mathematics) Saccadic eye movements blinking electronystagmography . . . maxima weightlessness . . . minima

. Cramer-Rao bounds

RT Euler-Lagrange equation

extravehicular mobility units

SN (LIMITED TO SPACE SUIT UNITS OF

head movement

oculometers

# eye protection

rapid eye movement state visual tasks

eye protection

GS protection . eye protection RT flash blindness

goggles sunglasses

visors

eyepieces
GS optical equipment
. eyepieces
RT binoculars
contact lenses lenses microscopes periscopes reticles

sunglasses telescopes

Eyring theory
GS kinetic theory
. transport theory
. Eyring theory
RT equilibrium flow
fluid dynamics
∞ theories

| F 1 reg  |  |           | jet aircraft               | RT «    | ∞ aircraft                         |
|----------|--|-----------|----------------------------|---------|------------------------------------|
| GS       | Earth atmosphere                           |           | . F-2 aircraft             | F0F -:  |                                    |
|          | . upper atmosphere                         |           | monoplanes                 | F9F air |                                    |
|          | Earth ionosphere                           | рт        | . F-2 aircraft             | USE     | F-9 aircraft                       |
|          | upper ionosphere                           | KI °      | ∞ aircraft                 | E 44 -: |                                    |
|          | F region<br>F 1 region                     |           |                            | F-14 ai |                                    |
|          | regions                                    | F-4 airc  | craft                      | GS      | attack aircraft . fighter aircraft |
|          |  | UF        | F-110 aircraft             |         | 3                                  |
|          | . F region<br>F 1 region                   |           | F4H aircraft               |         | F-14 aircraft                      |
|          | F i legion                                 |           | Phantom aircraft           |         | Grumman aircraft                   |
| F 2 reg  | ion  |           | RF-4 aircraft              |         | . F-14 aircraft                    |
| GS       | Earth atmosphere                           | GS        | attack aircraft            |         | jet aircraft                       |
| 00       | . upper atmosphere                         |           | . fighter aircraft         |         | . F-14 aircraft                    |
|          | Earth ionosphere                           |           | F-4 aircraft               |         | supersonic aircraft  F-14 aircraft |
|          | upper ionosphere                           |           | jet aircraft               | DT.     | . <b>r-14 ancran</b><br>∞ aircraft |
|          | F region                                   |           | . F-4 aircraft             | KI      | ∞ airciait                         |
|          | F 2 region                                 |           | McDonnell Douglas aircraft | E 45    |                                    |
|          |  |           | . Mcdonnell aircraft       | F-15 ai |                                    |
|          | regions<br>. F region                      |           | F-4 aircraft               | GS      | attack aircraft                    |
|          | . F 2 region                               |           | monoplanes                 |         | . fighter aircraft                 |
| RT       | spread F                                   |           | F-4 aircraft               |         | F-15 aircraft                      |
| KI       | •  |           | supersonic aircraft        |         | jet aircraft                       |
|          | transequatorial propagation                |           | F-4 aircraft               |         | F-15 aircraft                      |
| F cente  | re   | RT o      | ∞ aircraft                 |         | supersonic aircraft                |
| USE      | color centers                              |           | J-79 engine                |         | . F-15 aircraft                    |
| UUL      | Color Centers                              |           | ŭ                          | RI «    | ∞ aircraft                         |
| F displa | 2/16                                       | E411 =:   |                            | =       | •                                  |
|          | F region                                   | F4H air   |                            | F-16 ai |                                    |
| OOL      | 1 region                                   | USE       | F-4 aircraft               | UF      | YF-16 aircraft                     |
| F layer  |  |           |                            | GS      | attack aircraft                    |
|          | F region                                   | F-5 airc  | craft                      |         | . fighter aircraft                 |
| UUL      | i region                                   | UF        | Freedom Fighter aircraft   |         | F-16 aircraft                      |
| F regio  | n  |           | N-156 aircraft             |         | jet aircraft                       |
| SN       | (ALTITUDES ABOVE APPROXIMATELY             | GS        | attack aircraft            |         | F-16 aircraft                      |
| OIN      | 160 KM)                                    |           | . COIN aircraft            |         | single engine aircraft             |
| DEF      | A portion of he ionosphere extending       |           | F-5 aircraft               |         | . F-16 aircraft                    |
| from ab  | out 150 to 1000 km. The F region is        |           | . fighter aircraft         |         | supersonic aircraft                |
| subdivid | ded into the F1 (150 to 250 km) and the    |           | F-5 aircraft               |         | . F-16 aircraft                    |
| F2 (250  | to 1000 km) regions. The F2 region         |           | jet aircraft               | RT «    | ∞ aircraft                         |
| general  | ly has the largest electron density and it |           | . turbofan aircraft        |         |                                    |
| persists | throughout the night. The F region is the  |           | F-5 aircraft               | F-17 ai |                                    |
| one mo   | st commonly used for long range high       |           | monoplanes                 | UF      | YF-17 aircraft                     |
| frequen  | cy propagation.                            |           | . F-5 aircraft             | GS      | attack aircraft                    |
| ÜF       | F displays                                 |           | Northrop aircraft          |         | . fighter aircraft                 |
|          | F layer                                    |           | . F-5 aircraft             |         | F-17 aircraft                      |
|          | night F layer                              |           | supersonic aircraft        |         | jet aircraft                       |
| GS       | Earth atmosphere                           |           | . F-5 aircraft             |         | . F-17 aircraft                    |
|          | . upper atmosphere                         | RT o      | ∞ aircraft                 |         | monoplanes                         |
|          | Earth ionosphere                           | 101 9     | - anoran                   |         | . F-17 aircraft                    |
|          | upper ionosphere                           |           |                            |         | supersonic aircraft                |
|          | F region                                   | F-8 airc  | craft                      |         | . F-17 aircraft                    |
|          | F 1 region                                 | UF        | Crusader aircraft          | RT <    | ∞ aircraft                         |
|          | F 2 region                                 |           | F8U aircraft               |         | F-18 aircraft                      |
|          | regions                                    |           | RF-8 aircraft              |         |                                    |
|          | . F region                                 | GS        | attack aircraft            | F-18 ai | rcraft                             |
|          | . F 1 region                               |           | . fighter aircraft         | GS      | attack aircraft                    |
|          | F 2 region                                 |           | F-8 aircraft               |         | . fighter aircraft                 |
| RT       | plasma bubbles                             |           | jet aircraft               |         | F-18 aircraft                      |
|          | radio transmission                         |           | . F-8 aircraft             |         | jet aircraft                       |
|          | radio transmission                         |           | Ling-Temco-Vought aircraft |         | . F-18 aircraft                    |
| F stars  |  |           | . F-8 aircraft             |         | McDonnell Douglas aircraft         |
| GS       | celestial bodies                           |           | monoplanes                 |         | . F-18 aircraft                    |
| - •      | . stars                                    |           | F-8 aircraft               |         | Northrop aircraft                  |
|          | F stars                                    |           | single engine aircraft     |         | . F-18 aircraft                    |
| RT       | blue stars                                 |           | . F-8 aircraft             | RT «    | ∞ aircraft                         |
|          | dwarf stars                                |           | supersonic aircraft        |         | F-17 aircraft                      |
|          | G stars                                    |           | F-8 aircraft               |         |                                    |
|          | giant stars                                | RT o      | ∞ aircraft                 | F-20 ai | rcraft                             |
|          | main sequence stars                        |           |                            | GS      | attack aircraft                    |
|          | stellar spectra                            | F011 - :- |                            |         | . fighter aircraft                 |
|          |  | F8U air   |                            |         | F-20 aircraft                      |
| F-1 roc  | ket engine                                 | USE       | F-8 aircraft               |         | jet aircraft                       |
| GS       | engines                                    |           |                            |         | . F-20 aircraft                    |
| - •      | . rocket engines                           | F-9 airc  | craft                      |         | Northrop aircraft                  |
|          | liquid propellant rocket engines           | UF        | Cougar aircraft            |         | . F-20 aircraft                    |
|          | F-1 rocket engine                          | ٥.        | F9F aircraft               |         |                                    |
| RT       | booster rocket engines                     |           | Panther aircraft           | F-22 ai | rcraft                             |
|          | Nova launch vehicles                       | GS        | attack aircraft            |         | led August 1993)                   |
|          | Saturn launch vehicles                     | 00        | . fighter aircraft         | UF      |                                    |
|          |  |           | F-9 aircraft               | 31      | ATF                                |
| F-2 airc | eraft                                      |           | Grumman aircraft           |         | YF-22 aircraft                     |
| UF       | Hawker Hunter aircraft                     |           | . F-9 aircraft             | GS      | attack aircraft                    |
| O1       | Hunter F-2 aircraft                        |           | jet aircraft               | 00      | . fighter aircraft                 |
| GS       | attack aircraft                            |           | . F-9 aircraft             |         | F-22 aircraft                      |
| 00       | . fighter aircraft                         |           | monoplanes                 |         | jet aircraft                       |
|          | F-2 aircraft                               |           | . F-9 aircraft             |         | . F-22 aircraft                    |
|          | Hawker Siddeley aircraft                   |           | single engine aircraft     |         | supersonic aircraft                |
|          | . F-2 aircraft                             |           | . F-9 aircraft             |         | . F-22 aircraft                    |
|          | . i -4 all Clait                           |           | . ı -3 alı cı alı          |         | . r-22 an Gall                     |

RT ∞ aircraft RT ∞ aircraft  $RT \, \infty \, aircraft$ F-27 aircraft F-94 aircraft F-105 aircraft Fokker F 27 aircraft GS attack aircraft Thunderchief aircraft UF Fokker Friendship aircraft . fighter aircraft attack aircraft Fokker aircraft . fighter aircraft F-27 aircraft . F-105 aircraft jet aircraft . F-94 aircraft jet aircraft jet aircraft . F-105 aircraft . turboprop aircraft Lockheed aircraft . F-94 aircraft ... F-27 aircraft monoplanes . F-105 aircraft monoplanes monoplanes . F-27 aircraft F-94 aircraft Republic aircraft passenger aircraft single engine aircraft F-105 aircraft F-27 aircraft single engine aircraft
. F-105 aircraft F-94 aircraft transport aircraft RT ∞ aircraft F-27 aircraft  $RT \, \infty \, aircraft$ RT ∞ aircraft F-100 aircraft Super Sabre aircraft F-106 aircraft UF F-28 helicopter attack aircraft Delta Dart aircraft light aircraft . fighter aircraft attack aircraft F-28 helicopter . F-100 aircraft . fighter aircraft passenger aircraft . F-106 aircraft jet aircraft F-28 helicopter F-100 aircraft General Dynamics aircraft

F-106 aircraft V/STOL aircraft monoplanes . rotary wing aircraft jet aircraft . F-106 aircraft . . helicopters F-100 aircraft ... rigid rotor helicopters North American aircraft monoplanes . F-106 aircraft F-100 aircraft .... F-28 helicopter single engine aircraft F-100 aircraft F-28 transport aircraft single engine aircraft Fellowship aircraft supersonic aircraft . F-106 aircraft Fokker F 28 aircraft F-100 aircraft supersonic aircraft RT ∞ aircraft F-106 aircraft commercial aircraft tailless aircraft F-28 transport aircraft . F-106 aircraft Fokker aircraft F-101 aircraft RT ∞ aircraft F-28 transport aircraft JF 101 aircraft iet aircraft Voodoo aircraft . turbofan aircraft attack aircraft F-110 aircraft . . F-28 transport aircraft . fighter aircraft USE F-4 aircraft monoplanes . F-101 aircraft F-28 transport aircraft jet aircraft F-111 aircraft passenger aircraft . F-101 aircraft McDonnell Douglas aircraft LASV UF F-28 transport aircraft TFX aircraft transport aircraft . Mcdonnell aircraft attack aircraft F-28 transport aircraft . F-101 aircraft . bomber aircraft RT ∞ aircraft single engine aircraft . F-111 aircraft F-101 aircraft General Dynamics aircraft F-80 aircraft supersonic aircraft . F-111 aircraft USE T-33 aircraft F-101 aircraft Grumman aircraft RT ∞ aircraft F-111 aircraft F-84 aircraft jet aircraft attack aircraft GS . turbofan aircraft F-102 aircraft . fighter aircraft .. F-111 aircraft UF Delta Dagger aircraft F-84 aircraft supersonic aircraft . F-111 aircraft YF-102 aircraft jet aircraft attack aircraft . F-84 aircraft . fighter aircraft . . F-102 aircraft  $RT \, \infty \, aircraft$ monoplanes mission adaptive wings F-84 aircraft variable sweep wings General Dynamics aircraft Republic aircraft F-102 aircraft F-84 aircraft jet aircraft single engine aircraft F-117A aircraft F-102 aircraft F-84 aircraft (added April 1991) monoplanes RT ∞ aircraft GS attack aircraft F-102 aircraft . fighter aircraft single engine aircraft . . F-117A aircraft F-86 aircraft F-102 aircraft Sabre aircraft jet aircraft supersonic aircraft . F-117A aircraft attack aircraft . F-102 aircraft . fighter aircraft  $RT \, {\it so} \, aircraft$ tailless aircraft F-86 aircraft aircraft detection F-102 aircraft jet aircraft bomber aircraft RT ∞ aircraft . F-86 aircraft monoplanes FAB (programming language)
USE **FORTRAN** F-86 aircraft F-104 aircraft North American aircraft Canadair CF-104 aircraft F-86 aircraft CF-104 aircraft single engine aircraft . F-86 aircraft Starfighter aircraft fabrication GS attack aircraft GS fabrication RT ∞ aircraft . fighter aircraft . nanofabrication . F-104 aircraft . space manufacturing RT assemblies F-89 aircraft jet aircraft GS attack aircraft F-104 aircraft assembling . fighter aircraft Lockheed aircraft construction . F-89 aircraft . F-104 aircraft low gravity manufacturing manufacturing production management jet aircraft monoplanes . F-89 aircraft . F-104 aircraft monoplanes single engine aircraft rapid prototyping F-89 aircraft . F-104 aircraft resin film infusion resin transfer molding

supersonic aircraft

self assembly

F-104 aircraft

Northrop aircraft

F-89 aircraft

|                | squeeze casting  |          | ground handling                                  |              | nd are probably due to elevated clouds of |
|----------------|--|----------|--|--------------|---|
| ( a la a ! a a |  |          | industrial areas                                 |              | s gas. Used for plages (faculae) and      |
| fabrics<br>UF  | cloth  |          | industrial plants                                | solar fa     |   |
|                | fabrics  |          | land use<br>launching bases                      | UF           | plages (faculae)<br>solar faculae         |
| 00             | . crepe  |          | logistics  | GS           | stellar activity                          |
|                | . Dacron (trademark)   |          | logistics management                             | 00           | . solar activity                          |
|                | felts  |          | military air facilities                          |              | faculae                                   |
|                | . Fortisan (trademark)                                       |          | mobile quarantine facility                       | RT ∘         | activity                                  |
|                | . gauze  |          | research facilities                              |              | chromosphere                              |
|                | . linen  |          | roads  |              | photosphere                               |
|                | . parachute fabrics<br>. silk                                |          | site selection                                   |              | starspots                                 |
|                | . wool   |          | sites Solar Cell Calibration Facility            |              | sunspots                                  |
| RT             | clothing   |          | stations   | Faddee       | v equations                               |
|                | coatings   |          | terminal facilities                              |              | ∘ equations                               |
|                | cotton   |          | test facilities                                  |              | particle collisions                       |
|                | fibers   |          | X Ray Astrophysics Facility                      |              | scattering amplitude                      |
| ~              | films  |          |  |              | wave scattering                           |
|                | flame retardants   |          | le communication                                 | fadina       |   |
|                | geotechnical fabrics<br>gores                                | UF       | ed September 1992)<br>facsimile transmission     | fading<br>GS | fading                                    |
|                | interlayers  | Oi       | fax  | 00           | . signal fading                           |
|                | laminates  | GS       | telecommunication                                |              | Rayleigh fading                           |
|                | mesh   |          | . communication                                  |              | selective fading                          |
|                | micarta  |          | facsimile communication                          | RT           | attenuation                               |
|                | multilayer insulation  |          | automatic picture transmission                   |              | bleaching                                 |
|                | reinforcing materials  | RT       | interplanetary communication                     |              | color                                     |
|                | ribbons  |          | Iridium network                                  |              | discoloration                             |
| 000            | sheets   |          | lunar communication                              |              | electromagnetic absorption extinction     |
|                | socks<br>textiles  |          | satellite communication spacecraft communication |              | reception diversity                       |
|                | weaving  |          | teletypewriter systems                           |              | signal fading rate                        |
|                | webbing  |          | television systems                               |              | wave dispersion                           |
|                | webs (sheets)  |          | transoceanic communication                       |              | •   |
|                | wire cloth   |          | wireless communication                           |              | eit temperature scale                     |
|                | woven composites   |          |  | USE          | temperature scales                        |
| Eabry_D        | erot interferometers   |          | e transmission                                   | fail-caf     | e systems                                 |
| -              | measuring instruments  | USE      | facsimile communication                          |              | Systems used to minimize risk in case     |
| 00             | . interferometers  | factor a | analysis   | of malfu     |   |
|                | Fabry-Perot interferometers                                  | GS       | statistical analysis                             |              | automation                                |
| RT             | etalons  |          | . factor analysis                                |              | emergencies                               |
|                | microwave interferometers                                    | RT       | autoregressive processes                         |              | fault tolerance                           |
|                | plasma diagnostics   |          | correlation                                      |              | safety devices                            |
| Fahry-P        | erot lasers  |          | covariance                                       |              | safety management                         |
|                | lasers   |          | degrees of freedom                               |              | self tests                                |
| OOL            | 143013   |          | experiment design factorization                  | 0            | o systems                                 |
| Fabry-P        | erot spectrometers   |          | matrices (mathematics)                           | failure      |   |
| GS             | measuring instruments  |          | orthogonality                                    | GS           | failure                                   |
|                | . radiation measuring instruments                            |          | regression analysis                              |              | . burnthrough (failure)                   |
|                | . Fabry-Perot spectrometers                                  |          | statistical tests                                |              | . engine failure                          |
|                | . spectrometers Fabry-Perot spectrometers                    |          | variability                                      |              | structural failure                        |
| RT             | actinometers   |          | variance (statistics)                            | DT           | . system failures                         |
|                | airglow  | faataria | d decien   |              | aborted missions<br>breakdown             |
|                | auroral spectroscopy   |          | al design experiment design                      |              | buckling                                  |
|                | optical equipment  | 00       | . factorial design                               |              | burn-in                                   |
|                | optical measuring instruments                                | RT «     | ∞ design   |              | collapse                                  |
|                |  |          | mathematical models                              |              | corrosion                                 |
| face (an       |  |          | sensitivity analysis                             |              | cracking (fracturing)                     |
| GS             | anatomy . face (anatomy)                                     |          | statistical analysis                             |              | cumulative damage                         |
|                | chin   | factoria | ale.   |              | deformation<br>destruction                |
|                | forehead   | GS       | analysis (mathematics)                           |              | deterioration                             |
|                | mouth  | 00       | . combinatorial analysis                         |              | distortion                                |
|                | lips (anatomy)   |          | factorials                                       |              | downtime                                  |
|                | nose (anatomy)   | RT       | binomial coefficients                            |              | electrical faults                         |
| RT             | eye (anatomy)  |          | gamma function                                   |              | failure analysis                          |
|                | head (anatomy)   |          |  |              | fatigue (materials)                       |
| face cei       | ntered cubic lattices  | factorie |  |              | flashover                                 |
| UF             | FCC lattices   | USE      | industrial plants                                |              | fractures (materials) malfunctions        |
| GS             | crystal lattices   | factoriz | zation   |              | Mills ratio                               |
|                | . cubic lattices   | DEF      | Process or instance of factoring.                |              | rupturing                                 |
|                | face centered cubic lattices                                 | GS       | factorization                                    |              | shearing                                  |
| RT             | body centered cubic lattices                                 |          | . Cholesky factorization                         |              | short circuits                            |
|                | close packed lattices cluster variation method               | RT       | algorithms                                       |              | structural strain                         |
|                | crystals   |          | factor analysis                                  |              | temperature inversions                    |
|                | or yourus  |          | finite element method real variables             |              | wear                                      |
| facets         |  |          | IGAI VAIIAUIGS                                   | failure      | analysis                                  |
| USE            | flat surfaces  | factors  |  | DEF          |   |
|                |  | USE      | variable   |              | examination of an item, its construction, |
| facilitie      |  |          |  |              | ion, and documentation to identify the    |
| SN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | faculae  |  | failure r    | node and determine the failure mecha-     |
|                | LISTED BELOW)  |          | Large patches of bright material form-           |              | d its basic cause.                        |
| RT             | airports   |          | eined network in the vicinity of sunspots.       | RT           | acoustic emission                         |
|                | electric power plants  | rney a   | opear to be more permanent than sun-             | ٥            | o analyzing                               |
|                |  |          |  |              |   |

burn-in burst tests failure fatigue life fault detection fault tolerance fiber pullout life (durability) Mills ratio MTBF preventive maintenance probability density functions reliability statistical analysis trend analysis modes . failure modes buckling

failure modes

GS RT cracks elastic buckling fault detection fiber pushout kink bands kinking mode

mode (statistics) MTBF shearing

faint object camera

DEF One of the five components of the first scientific payload of the Hubble Space Telescope. The faint object camera will be used to observe extremely faint astronomical objects with wavelengths between 120 and 700 nm.

GS optical equipment

. cameras

. faint object camera photographic equipment

. cameras

. faint object camera

astronomical photography Hubble Space Telescope infrared photography optical measuring instruments spaceborne astronomy spaceborne telescopes ultraviolet photography

faint objects

GS celestial bodies . faint objects galaxies stars

fainting

USE syncope

Fairchild military aircraft

USE Fairchild-Hiller aircraft

Fairchild-Hiller aircraft

Fairchild military aircraft

Fairchild-Hiller aircraft

. C-119 aircraft C-123 aircraft

. OH-5 helicopter

. OH-23 helicopter XC-142 aircraft

RT ∞ aircraft

Fairey aircraft

Fairey aircraft

FD 2 aircraft

RT ∞ aircraft

Fairey Delta 2 aircraft USE FD 2 aircraft

fairings

symmetrical bodies . streamlined bodies

. fairings

aerodynamic configurations aircraft structures canopies cowlings fillets

false alarms

housings

nacelles

protectors

sheaths

∞ spinners

Faith 7

RT

GS

falling

fallout

Falcon missile

missiles

Falkner-Skan equation

∞ equations

laminar flow

wedge flow

atmospheric entry

particle motion

vertical motion

precipitation

. . spheres

drop towers

balls

free fall

globules

raindrops

spheroids

air pollution

∞ radiation

fission products

fission weapons

radiation effects

∞ radioactive debris

radioactivity

radiation hazards

nuclear explosions

nuclear meteorology

sinking

falling spheres

descent trajectories

symmetrical bodies

. bodies of revolution

. falling spheres

washout (radioactivity)

nuclear explosion effect

post-blast nuclear radiation

radioactive contaminants

streamlining

wing roots

ogives

landing gear

perforated shells

protuberances

shells (structural forms)

manned spacecraft

. Mercury spacecraft

. recoverable spacecraft

. . Mercury spacecraft

. Mercury spacecraft

Mercury MA-2 flight

Mercury MA-9 flight

. air to air missiles

. . Falcon missile
. antiaircraft missiles

. Falcon missile M-46 engine

GS analysis (mathematics)

Blasius equation

. real variables

solid propellant rocket engines

. . differential equations . . . Falkner-Skan equation

boundary layer separation

Prandtl-Meyer expansion

reentry vehicles

. Faith 7 soft landing spacecraft

. Faith 7

space capsules . Mercury spacecraft . . Faith 7

DEF In general, the unwanted detection of input noise. In radar, an indication of a detected

target even though one does not exist, due to noise or interference levels exceeding the set threshold of detection. RT error signals signal to noise ratios warning systems

fan blades

DEF One or more revolving vanes attached to a rotary hub and operated by a motor.

compressor blades ducted fans ∞ fans propeller blades rotary wings turbine blades turbomachine blades

fan in wing aircraft

ventilation fans

GS fan in wing aircraft . XV-5 aircraft RT ∞ aircraft lift fans research aircraft short takeoff aircraft tilt wing aircraft V/STOL aircraft vertical takeoff aircraft

fanlift devices USE lift fans

∞ fans

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

actuator disks

air conditioning equipment

air ducts

antenna radiation patterns

blowers

compressor rotors compressors

ducted fans fan blades propeller fans turbofans ventilation fans wind tunnel drives

fans (landforms)

Gently sloping, fan-shaped masses of detritus forming sections of very low shaped cones commonly at places where there is a notable decrease in gradient; specifically, alluvial fans. Also fan-shaped masses of congealed lava that formed on steep slopes by the continual changing direction of flow. Used for baja-

UF bajadas GS landforms . fans (landforms) alluvium canyons clays deltas gravels mud sands

sediments

DEF (1- antennas) Those regions of the field of an antenna where the angular field distribution is essentially independent of the distance from a specified point in the antenna region. (2-fiber optics) The regions, far from source, where the diffraction pattern is substantially the same as that at infinity. (mobile communication) The regions of the field of an antenna where the angular fild distance is essentially independent of the distance from the antenna. Used for Fraunhoffer region.

Fraunhofer region electromagnetic fields GS

. far fields

antenna radiation patterns electromagnetic radiation field theory (physics) Fresnel region

|               | laser arrays   |               | . potatoes   |               | fast neutrons                                    |
|---------------|--|---------------|--|---------------|--|
|               | near fields  |               | . spinach  |               | . neutral particles                              |
|               | noise propagation radiant flux density   |               | . sugar beets . sugar cane   |               | neutrons<br>fast neutrons                        |
|               | radiant nax denoty   |               | . sunflowers   | RT            |  |
| far infra     | ared radiation   |               | . tomatoes   |               | nucleons   |
| SN            | (30 MICRONS TO ABOUT 1000 MICRONS)   | RT            | agriculture  |               | thermal neutrons                                 |
| GS            | electromagnetic radiation . infrared radiation                                 |               | AgRISTARS project  | f             | -1   |
|               | far infrared radiation   |               | botany<br>crop calendars   | GS            | clear reactors nuclear reactors                  |
| RT            | long wave radiation  |               | crop dusting   | 00            | . fast nuclear reactors                          |
|               | near infrared radiation  |               | crop growth  |               | Experimental Breeder Reactor 1                   |
| 00            | radiation  |               | crop inventories   |               | Experimental Breeder Reactor 2                   |
|               | radio waves  |               | crop vigor   |               | fast oxide reactors                              |
|               | short wave radiation submillimeter waves                                       | ٥             | o crops  |               | fast test reactors gas cooled fast reactors      |
|               | terrestrial radiation  |               | curing<br>Earth resources  |               | liquid metal fast breeder reactors               |
|               |  |               | farmlands  | RT            | Enrico Fermi atomic power plant                  |
|               | aviolet radiation  |               | frost damage   |               | nuclear power reactors                           |
| SN<br>UF      | (200 TO 2000 ANGSTROMS) vacuum ultraviolet radiation                           |               | grasses  | foot ov       | ide vecetore                                     |
| GS            | electromagnetic radiation  |               | grasslands   | GS            | ide reactors nuclear reactors                    |
|               | . ultraviolet radiation  |               | irrigation Large Area Crop Inventory   | 00            | . fast nuclear reactors                          |
|               | far ultraviolet radiation  |               | Experiment   |               | fast oxide reactors                              |
|               | Lyman alpha radiation  |               | locusts  | RT            | nuclear power reactors                           |
| RT            | Lyman beta radiation bremsstrahlung  |               | orchards   | fact too      | st reactors                                      |
|               | Magellan ultraviolet astronomy   |               | planting   |               | nuclear reactors                                 |
|               | satellite  |               | plants (botany)<br>plowing   |               | . fast nuclear reactors                          |
|               | near ultraviolet radiation   |               | seeds  |               | fast test reactors                               |
| ~             | radiation  |               | vineyards  | RT «          | ∞ reactors                                       |
|               | ultraviolet telescopes<br>x rays   |               | I.   | fastene       | aro.   |
|               | x rays   | farmlan<br>UF |  |               | fasteners  |
| Far UV        | Spectroscopic Explorer   | UF            | croplands<br>plowed fields   | 00            | . anchors (fasteners)                            |
|               | High-orbit, ultraviolet space observa-   | GS            | land   |               | . bolts  |
|               | ering the wavelength range of 90. 5-119.                                       |               | . farmlands  |               | rock bolts                                       |
|               | he primary objective of FUSE is to use olution spectroscopy at far ultraviolet | RT            | agriculture  |               | tiebolts   |
|               | igths to study the origin and evolution of                                     |               | agrophysical units crop growth   |               | . locks (fasteners) . nuts (fasteners)           |
|               | est elements (hydrogen and deuterium)  |               | crop identification  |               | . pins   |
| created       | shortly after the Big Bang, and the  |               | crop inventories   |               | . rivets   |
|               | and processes involved in the evolution  |               | crop vigor   |               | . screws   |
|               | ies, stars, and planetary systems.   | ٥             | o crops  |               | . washers (spacers)                              |
| UF            | Explorer 77 satellite FUSE (satellite)   |               | Earth resources  | RT            | . zippers<br>adhesives                           |
| GS            | artificial satellites  |               | farm crops<br>grasses  |               | ∞ bands  |
|               | . scientific satellites  |               | grasslands   |               | ∞ belts  |
|               | Explorer satellites  |               | hay  |               | brackets   |
|               | Far UV Spectroscopic Explorer  |               | irrigation   |               | cables (ropes)                                   |
| Faraday       | dark space   |               | land use   |               | chains   |
| RT            | gas discharge tubes  |               | plains<br>planting   |               | clamps<br>clips                                  |
|               | glow discharges  |               | plowing  |               | closures   |
|               |  |               | regional planning  |               | connectors                                       |
| Faraday<br>UF |  |               | rural areas  |               | couplings  |
| GS            | Faraday rotation electromagnetic properties                                    |               | rural land use   |               | fittings<br>holders                              |
|               | . Faraday effect   |               | sod<br>sugar beets   |               | hooks  |
| RT            | circulators (phase shift circuits)   |               | sugar cane   |               | inserts  |
| ~             | effects  |               | -  |               | interference fit                                 |
|               | Hall generators Kerr magnetooptical effect                                     |               | urier transformations  |               | joints (junctions)                               |
|               | magneto-optics   | UF<br>GS      | FFT analysis (mathematics)   |               | latches<br>linkages                              |
|               | optical measurement  | 00            | . functional analysis  |               | locking  |
|               | optical properties   |               | integral transformations   |               | lugs   |
|               | polarization (waves)   |               | Fourier transformation   |               | mooring  |
|               | polarized electromagnetic radiation rotation                                   |               | fast Fourier transformations   |               | ribbons  |
|               | Totation   |               | functions (mathematics)  Fourier transformation                                      |               | sleeves<br>spacers                               |
| Faraday       | rotation   |               | fast Fourier transformations   | c             | spikes   |
| USE           | Faraday effect   |               | transformations (mathematics)  |               | splicing   |
|               |  |               | . integral transformations   |               | splines  |
| farm cr       |  |               | . Fourier transformation   |               | straps   |
| GS            | farm crops<br>. alfalfa  | DT            | fast Fourier transformations vortex in cell technique                                |               | structural members<br>studs (structural members) |
|               | . coffee   | IXI           | Walsh function   | c             | ∞ tapes  |
|               | . cotton   |               | Trailor randicion  |               | unions (connectors)                              |
|               | . fruits   | fast ne       |  |               | wire   |
|               | . grains (food)  | DEF           | 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,  | f==t!==       |  |
|               | barley corn  |               | d that must be specified (typically 0. 1 or ften associated with those neutrons pre- | fasting<br>RT |  |
|               | millet   |               | ely responsible for displacement dam-  | I.I           | aerospace medicine diets                         |
|               | . oats   | age of r      | naterials in neutron radiation fields.   |               | food intake                                      |
|               | rice   | GS            | nuclear radiation  |               | hypoxia  |
|               | sorghum  |               | . fast neutrons  | 4_4           | alioma   |
|               | wheat . hay  |               | particles . elementary particles   | fat emb<br>GS | oolisms<br>diseases                              |
|               | . leguminous plants  |               | fermions   | 00            | . fat embolisms                                  |
|               | soybeans   |               | neutrons   |               | embolisms  |

|   |   | ain of a specified character that a given   |   | oleic acid   |
|---|---|---|---|--|
| RT aeroembolism   |   | ecimen sustains before failure of a specified   |   | palmitic acid  |
| blood vessels   |   | ure occurs.   |   | propionic acid   |
| cardiovascular  | system  | GS life (durability)  |   | sebacic acid   |
| heart diseases  |   | . fatigue life  | DT  | valeric acid   |
| fatigue (biology)   |   | mechanical properties   | RI∞   | aliphatic compounds  |
|   | numan organism after                            | . fatigue life  |   | castor oil   |
|   |   | RT accelerated life tests   | ∞   | nutrients  |
| exposure to any time of<br>cal stress (e.g., pilot fati   |   | blowouts  | foult day   | taatian  |
| GS fatigue (biolog  |   | Coffin-Manson law   | fault det   |  |
| . auditory fatigu   |   | combined stress   |   | ed September 1993)<br>detection  |
| . flight fatigue  | <b>C</b>  | failure analysis  | 93  | . fault detection  |
| . muscular fatig  | 110   | interference fit  | RT  | electronic equipment tests   |
| RT asthenopia   | 76  | Palmgren-Miner rule retirement for cause  | IXI   | engine monitoring instruments  |
| ∞ biology   |   | service life  |   | error detection codes  |
| damage  |   | short cracks  |   | failure analysis   |
| effort  |   | S-N diagrams  |   | failure modes  |
| ∞ endurance   |   | stress cycles   |   | fault tolerance  |
| exhaustion  |   | Stress Cycles   |   | maintenance  |
| human factors   | engineering fat                                 | igue testing machines   |   | reliability engineering  |
| hyperkinesia  |   | RT acoustic emission  |   | system failures  |
| massaging   |   | ∞ machinery   |   | systems health monitoring  |
| ∞ performance   |   | ∞ test equipment  |   | systems near monitoring  |
| physical exercis  | se  | toot oquipmont  | fault me  | chanics  |
| sleep deprivation   |   | igue tests  |   | fracture mechanics   |
| stress (biology)  |   | RT bending  | 002   |  |
| stress (physiolo  | av)   | Coffin-Manson law   | fault tol   | erance   |
| stress (psychol   |   | creep tests   | DEF   | The capability of systems to function  |
| workloads (psy  |   | destructive tests   |   | one or more critical failures, by use of   |
| work-rest cycle   | 1 /   | ferrography   |   | nt circuits or functions and/or reconfig-  |
|   |   | impact testing machines   | urable e  |  |
| fatigue (materials)   |   | impact tests  |   | error analysis   |
| DEF A weakening o   | r deterioration of metal                        | load tests  |   | error detection codes  |
| or other material occur   |   | ∞ materials tests   |   | fail-safe systems  |
| cially under repeated cy  | clic, or continued load-                        | notch strength  |   | failure analysis   |
| ing. Used for strain fat  | gue and structural fa-                          | notch tests   |   | fault detection  |
| tigue.  |   | resonance testing   |   | reliability engineering  |
| UF strain fatigue   |   | S-N diagrams  |   | , , ,  |
| structural fatigu   | e   | specimen geometry   | fault tre   | es   |
| GS fatigue (mater   | als)  | static tests  | DEF   | Acyclic directed graphs used in the  |
| acoustic fatigu   | ie .  | stress concentration  | analysis  | or prediction of faults and defects.   |
| . bending fatigu  | e   | stress cycles   | GS  | trees (mathematics)  |
| . metal fatigue   |   | stress ratio  |   | fault trees  |
| . thermal fatigue   | <b>9</b>  | tensile tests   | RT  | graphs (charts)  |
| . volumetric stra   | ain   | testing time  |   | topology   |
| RT Bauschinger ef   | ect   | ∞ tests   |   |  |
| crack closure   |   | thermal cycling tests   |   |  |
| crack geometry  |   | Weibull density functions   | SN  | (USE OF A MORE SPECIFIC TERM IS  |
| crack propagati   |   | weld tests  |   | RECOMMENDEDCONSULT THE TERMS   |
| cracking (fractu  |   |   | RT  | LISTED BELOW) electrical faults  |
|   | fat   | s   | IXI   | geological faults  |
| cracks  |   | GS organic compounds  |   | landforms  |
|   | 3   | GS Organic compounds  |   |  |
| creep propertie   | <del>-</del>                                    | . lipids  |   |  |
| creep propertie<br>crystal dislocati  | <del>-</del>                                    | 3   |   | massifs  |
| creep propertie<br>crystal dislocati<br>cycles  | ons   | . lipids  |   | massifs seamounts  |
| creep propertie<br>crystal dislocati<br>cycles<br>damage  | ons   | . lipids<br>fats  |   | massifs  |
| creep propertie<br>crystal dislocati<br>cycles  | ons   | . lipids fats RT adipose tissues  | fauna   | massifs seamounts  |
| creep propertie<br>crystal dislocati<br>cycles<br>damage<br>destruction   | ons   | . lipids fats RT adipose tissues ∞ food   | fauna<br>USF  | massifs<br>seamounts<br>test pattern generators  |
| creep propertie<br>crystal dislocati<br>cycles<br>damage<br>destruction<br>ductility  | ons   | . lipids fats RT adipose tissues ∞ food greases   | fauna<br>USE  | massifs seamounts  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance   | ons   | . lipids fats RT adipose tissues ∞ food greases myelin  | USE   | massifs<br>seamounts<br>test pattern generators  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting   | ons   | . lipids fats  RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid  |   | massifs<br>seamounts<br>test pattern generators  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography  | ons   | . lipids fats RT adipose tissues  ∞ food greases myelin ∞ nutrients oils  | USE<br>fax  | massifs<br>seamounts<br>test pattern generators<br>animals   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness  | n   | . lipids . fats RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  | USE<br>fax  | massifs<br>seamounts<br>test pattern generators<br>animals   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic   | ons<br>n<br>fati                                | . lipids fats RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  | USE<br>fax<br>USE   | massifs<br>seamounts<br>test pattern generators<br>animals   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro   | n <b>fat</b><br>perties                         | . lipids fats RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity   | n fat   | . lipids . fats RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  ty acids GS acids . carboxylic acids  | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie   | n fati  | . lipids fats RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  ty acids GS acids . carboxylic acids . fatty acids  | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity   | n fati  | . lipids fats  RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  ty acids GS acids . carboxylic acids . fatty acids acetic acid   | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie  | n fatt<br>perties<br>/es<br>h                   | . lipids fats  RT adipose tissues  ∞ food greases myelin  ∞ nutrients oils palmitic acid synthetic food  ty acids GS acids . carboxylic acids . fatty acids acetic acid ethylenediaminetetraacetic acids  | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening   | n fatt<br>perties<br>/es<br>h                   | . Ilpids fats RT adipose tissues ∞ food greases myelin ∞ nutrients oils palmitic acid synthetic food  ty acids GS acids . carboxylic acids fatty acids acetic acid ethylenediaminetetraacetic acids iodoacetic acid   | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams  | n fat<br>perties<br>ves<br>h                    | . Ilpids . fats  RT adipose tissues   | USE  fax  USE  fayalite   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr  | n fat<br>perties<br>ves<br>h                    | . Ilpids fats  RT adipose tissues  ∞ food greases myelin  ∞ nutrients oils palmitic acid synthetic food  ty acids  GS acids . carboxylic acids . fatty acids . acetic acid ethylenediaminetetraacetic acids iodoacetic acid acetylsalicylic acid benzilic acid benzilic acid  | USE fax USE fayalite GS   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation)  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles  | n fat<br>perties<br>ves<br>h                    | . lipids . fats  RT adipose tissues  ∞ food greases myelin  ∞ nutrients oils palmitic acid synthetic food  ty acids  GS acids . carboxylic acids . fatty acids . acetic acid ethylenediaminetetraacetic acids . iodoacetic acid . acetylsalicylic acid . benzilic acid . benzoic acid . benzoic acid  | USE fax USE fayalite GS   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . sillicates . fayalite   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio   | n fatt  | . Ilpids fats RT adipose tissues  | USE fax USE fayalite GS   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual streng shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio   | n fatt  | . Ilpids . fats RT adipose tissues  | USE fax USE fayalite GS  FBFM (r USE                                    | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation  itrol   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress cycles stress ratio stress relaxatio stress relaxatio stress relieving  | n fatt  | . Ilpids . fats  RT adipose tissues   | USE fax USE fayalite GS  FBFM (r USE                                    | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relieving stresses   | n fatt<br>perties<br>/<br>es<br>h<br>s<br>ation | . Ilpids . fats  RT adipose tissues   | FBFM (r<br>USE  | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation  itrol fly by light control  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress elaxatio stresses structural failure  | n fatt<br>perties<br>/<br>es<br>h<br>s<br>ation | . Ilpids fats RT adipose tissues . ofood greases myelin . onutrients oils palmitic acid synthetic food  ty acids GS acids . carboxylic acids . fatty acids . acetic acid ethylenediaminetetraacetic acids . iodoacetic acid . benzoic acid . benzoic acid . lipoic acid . lipoic acid . oleic acid . palmitic acid . palmitic acid . propionic acid . sebacic acid . sebacic acid . palmitic acid . propionic acid . sebacic acid   | FBFM (r   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation fly by light control issiles)  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relieving stresses structural failure surface defects   | n fatt<br>perties<br>/<br>es<br>h<br>s<br>ation | . Ilpids . fats RT adipose tissues  | FBFM (r   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation  itrol fly by light control  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relaxatio stress relaxatio stresses structural failure surface defects system failures  | n fatty perties / es h s ation                  | . Ilpids . fats RT adipose tissues  | FBFM (IT USE)  FBFM (IT USE)  FBM (IT USE)                              | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation  itrol fly by light control  issiles) fleet ballistic missiles   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relaxatio stress relaxatio stresses structural failure surface defects system failures temperature inv  | n fatt perties des h s ation                    | . Ilpids . fats  RT adipose tissues   | FBM (m. USE)  | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation itrol fly by light control issiles) fleet ballistic missiles idees   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relaxatio stress reliaving stresses structural failure surface defects system failures temperature in thermal stresse   | n fatt perties des h s ation                    | . Ilpids . fats  RT adipose tissues   | FBM (m. USE)  | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation  itrol fly by light control  issiles) fleet ballistic missiles   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relaxatio stress relaxatio stresses structural failure surface defects system failures temperature inv  | n fatt perties des h s ation                    | Ilipids . fats  RT adipose tissues  of food greases myelin  nutrients oils palmitic acid synthetic food  ty acids  GS acids . carboxylic acids . fatty acids . acetic acid . otherwise acid . indoacetic acid . benzilic acid . benzilic acid . benzilic acid . lipoic acid . palmitic acid . palmitic acid . yaleric acid . valeric acid . yaleric acid . ropionic acid . propionic acid . sebacic acid . valeric acid . valeric acid . ropionic acid  | FBFM (m. USE)  FBM (m. USE)  FCC latt                                   | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation  itrol fly by light control issiles) fleet ballistic missiles face centered cubic lattices   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relieving stresses structural failure surface defects system failures temperature in thermal stresse vibration  | n fatt perties des h s ation                    | Ilipids . fats  RT adipose tissues  of food greases myelin  nutrients oils palmitic acid synthetic food  ty acids  GS acids . carboxylic acids . fatty acids acetic acid ethylenediaminetetraacetic acids . lipoic acid . benzilic acid . benzilic acid . benzilic acid . lipoic acid . oleic acid . palmitic acid . palmitic acid . propionic acid . propionic acid . valeric acid . valeric acid . valeric acid . raty acids . raty acids . carboxylic acid . carboxylic acid . carboxylic acid . raty acid . raty acid . raty acid . raty acids . acetic acid . ethylenediaminetetraacetic acids   | FBFM (m. USE)  FBM (m. USE)  FCC latt USE                               | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation itrol fly by light control issiles) fleet ballistic missiles irices face centered cubic lattices craft   |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relaxatio stress relaxatio stress relaxatio stress relaxatio stress relaxatio stress felects system failures temperature in thermal stresse vibration  fatigue diagrams | n fatt perties des h s ation                    | Ilipids Ifats  RT adipose tissues  food greases myelin  nutrients oils palmitic acid synthetic food  ty acids  GS acids carboxylic acids identify acids ifatty acid ifaty | FBFM (ruse) FBFM (ruse) FBM (ruse) FBM (ruse) FCC latte USE FD 2 air UF | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation itrol fly by light control issiles) fleet ballistic missiles icces face centered cubic lattices craft Fairey Delta 2 aircraft  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relieving stresses structural failure surface defects system failures temperature in thermal stresse vibration  | n fatt perties des h s ation                    | Ilpids Ilpids Ifats  RT adipose tissues  food greases myelin  nutrients oils palmitic acid synthetic food  ty acids  GS acids carboxylic acids fatty acids index acetic acid index acetic acid index acetylsalicylic acid index acetylsalicylic acid   | FBFM (ruse FBL conuse FBM (muse FCC latt USE FD 2 air UF                | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation  itrol fly by light control issiles) fleet ballistic missiles ices face centered cubic lattices craft Fairey Delta 2 aircraft Fairey aircraft  |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relieving stresses structural failure surface defects system failures temperature in thermal stresse vibration  fatigue diagrams  USE S-N diagrams                      | n fatt perties des h s ation                    | Ilipids I fats  RT adipose tissues  food greases myelin  nutrients oils palmitic acid synthetic food  ty acids  GS acids carboxylic acids fatty acids carbicacid catylalicylic acid cbenzilic acid cleic acid carboxylic acids carboxylic acids carboxylic acids carbicacids carbicacid cleic acid cleic  | FBFM (ruse FBL conuse FBM (muse FCC latt USE FD 2 air UF                | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates fayalite modulation) feedback frequency modulation fitrol fly by light control issiles) fleet ballistic missiles face centered cubic lattices craft Fairey Delta 2 aircraft Fairey aircraft |
| creep propertie crystal dislocati cycles damage destruction ductility ∞ endurance failure fractography fretting fretting corrosic hardness ∞ materials mechanical pro notch sensitivity plastic propertie residual strengt shear propertie shot peening S-N diagrams stress concentr stress cycles stress ratio stress relaxatio stress relieving stresses structural failure surface defects system failures temperature in thermal stresse vibration  fatigue diagrams  USE S-N diagrams  fatigue life        | n fatt perties des h s ation                    | Ilpids Ilpids Ifats  RT adipose tissues  food greases myelin  nutrients oils palmitic acid synthetic food  ty acids  GS acids carboxylic acids fatty acids index acetic acid index acetic acid index acetylsalicylic acid index acetylsalicylic acid   | FBFM (ruse FBL conuse FBM (muse FCC latt USE FD 2 air UF                | massifs seamounts test pattern generators  animals  facsimile communication  iron compounds . fayalite minerals . fayalite silicon compounds . silicates . fayalite modulation) feedback frequency modulation  itrol fly by light control issiles) fleet ballistic missiles ices face centered cubic lattices craft Fairey Delta 2 aircraft Fairey aircraft  |

monoplanes RT excretion back into the control system in such a sense that . FD 2 aircraft perspiration it will reduce the deviation of the controlled research vehicles quantity from the standard. . research aircraft closed loop systems . FD 2 aircraft federal budgets GS automatic control tailless aircraft allocations . feedback control . FD 2 aircraft appropriations . . cascade control RT ∞ aircraft ∞ budgets adaptive control delta wings contracts adaptive optics cost estimates automatic frequency control FDL-5 reentry vehicle financial management automatic gain control GS lifting bodies government procurement automation . lifting reentry vehicles biofeedback procurement management . FDL-5 reentry vehicle ∞ control reentry vehicles Federal Republic of Germany control equipment control systems design . maneuverable reentry bodies USE West Germany control theory distributed feedback lasers ... lifting reentry vehicles ... FDL-5 reentry vehicle federations GS organizations dynamic control electronic control H-2 control **FDMA** federations USE frequency division multiple access . bureaus (organizations) European Union H-infinity control inverse kinematics FDTD (mathematics) institutions (added April 1999) international cooperation Kalman-Schmidt filtering USE finite difference time domain nations linear parameter-varying control method teams linear quadratic Gaussian control unionization linear quadratic regulator fear United Nations loop transfer functions GS phobias loop transfer recovery . fear feed systems machine learning . fear of flying cold flow tests MIMO (control systems) RT anxiety feeding (supplying) model reference adaptive control emotions fuel tanks multivariable control neuroses intake systems negative feedback panic pumps nonlinear feedback psychoses ∞ systems observability (systems) optical control fear of flying feedback optimal control phobias GS The return of a portion of the output of proportional control . fear a device to the input; positive feedback adds to robot control . fear of flying the input, negative feedback subtracts from the robustness (mathematics) anxiety input. Information such as progress or results, sampled data systems emotions returned to an originating source. In aeronauservocontrol neuroses tics, the transmittal of forces initiated by aerodyservomechanisms namic action on control surfaces or rotor blades SISO (control systems) feasibility to the cockpit controls; the forces so transmitted. stability augmentation RT cost analysis GS feedback Terminal Configured Vehicle Program costs . biofeedback tracking problem efficiency . . sensory feedback estimating . negative feedback feedback frequency modulation evaluation . nonlinear feedback FBFM (modulation) positive feedback GS coding feasibility analysis compensators . signal encoding cost analysis complexity . . frequency modulation economic factors control theory ... feedback frequency modulation management planning cybernetics modulation research management electromagnetic interference . frequency modulation systems analysis emotional factors feedback frequency modulation technology assessment oscillations RT phase locked systems oscillators Feather River Basin (CA) screech tones landforms feeders ∞ systems (FOR FLUID AND PARTICULATE MATERIALS) . structural basins SN transfer functions . . river basins conveyors . Feather River Basin (CA) feedback amplifiers dispensers California GS amplifiers distributors rivers feedback amplifiers feeding (supplying) distributed feedback lasers fuel systems feathering nonlinear feedback injectors propeller blades RT operational amplifiers intake systems propellers oscillators . loading operations phantastrons materials handling feature extraction positive feedback mixers USE pattern recognition power amplifiers self oscillation feedforward control Feature Identification and Location Exper servoamplifiers GS automatic control (FEATURE IDENTIFICATION AND LOCATION EXPERIMENT)
Earth observations (from space) transistor amplifiers . feedforward control voltage amplifiers adaptive control image processing  $\infty$  automation pattern recognition feedback circuits  $\infty$  control control theory remote sensing GS circuits feedback circuits remote sensors feedback circuits scene analysis feedforward control model reference adaptive control Space Shuttle payloads transfer functions optimal control feedback control feeding (supplying)

DEF A control system in which the con-

trolled quantity is measured and compared with a standard representing the desired perfor-

mance. Any deviation from athe standard is fed

feces

GS

wastes

. . . feces

. metabolic wastes

. . human wastes

feed systems

feeders

injection

input

# feet (anatomy)

| ∝<br>feelings                                       | loading<br>materials handling   | along which electromagnetic radiation travels<br>between any two points will be that path for<br>which the elapsed time for the travel is a mini-<br>mum.  | Pauli exclusion principle<br>quantum statistics<br>supersymmetry  |
|---|---|--|---|
| USE   | sensory feedback  | RT electromagnetic wave transmission   | fermium   |
|   |   | light transmission   | GS chemical elements  |
| feet (an<br>DEF                                     | atomy) The lower, pedal extremities of the  | multipath transmission   | . actinide series   |
| legs.   | The lower, pedal extremities of the   | optical thickness  | transuranium elements<br>fermium  |
| GS  | anatomy   | velocity   | . nuclides  |
|   | . limbs (anatomy)   | fermentation   | isotopes  |
|   | leg (anatomy)   | GS chemical reactions  | radioactive isotopes  |
|   | feet (anatomy)  | . fermentation   | transuranium elements   |
|   | appendages  | metabolism   | fermium   |
|   | . leg (anatomy) feet (anatomy)  | . enzyme activity<br>fermentation  | metals<br>. actinide series   |
|   | leet (allatollly)   | RT bioconversion   | transuranium elements   |
| feldspa   | rs  | butyric acid   | fermium   |
| DEF   | A group of abundant rock-forming min-   | 221,112  |   |
|   | the family of anhydrous silicates.  | Fermi liquids  | Ferranti Mercury computer   |
| GS  | aluminum compounds  | GS liquids   | GS data processing equipment  |
|   | . aluminum silicates  | . cryogenic fluids   | . computers   |
|   | feldspars<br>plagioclase  | <b>Fermi liquids</b><br>RT cryogenics  | digital computers<br>Ferranti Mercury computer  |
|   | minerals  | electronic structure   | i cirana moroary compator   |
|   | . feldspars   |  | ferrates  |
|   | plagioclase   | Fermi surfaces   | GS iron compounds   |
|   | silicon compounds   | RT Brillouin zones   | ferrates  |
|   | . silicates   | cyclotron resonance  | barium ferrates   |
|   | aluminum silicates  | energy levels  | ferric ions   |
|   | feldspars<br>plagioclase  | magnetoresistivity<br>∞ surfaces   | GS ions   |
| RT  | andesite  | transition probabilities   | . metal ions  |
|   | anorthosite   | transition productitios  | ferric ions   |
|   | felsite   | Fermi-Dirac statistics   | RT iron   |
|   | igneous rocks   | DEF The statistics of an assembly of iden-   | forrimagnatia materials   |
| - "   |   | tical half-integer spin particles; such particles  | ferrimagnetic materials GS magnetic materials   |
|   | hip aircraft  | have wave functions antisymmetrical with re-   | . ferrimagnetic materials   |
| USE   | F-28 transport aircraft   | spect to particle interchange and satisfy the<br>Pauli exclusion principle.  | RT ferromagnetic materials  |
| felsite   |   | RT bosons  | ∞ materials   |
| DEF   | A light colored, fine grained igneous   | degenerate matter  |   |
| rock cor  | nposed chiefly of quartz or feldspar.   | fermions   | ferrimagnetism  |
|   | rocks   | quantum mechanics  | GS magnetic properties  |
|   | . igneous rocks   | quantum statistics   | . ferrimagnetism  |
|   |   |  | PT ferrimagnets   |
| DT  | felsite   | ∞ statistics   | RT ferrimagnets   |
| RT  | feldspars   |  | RT ferrimagnets magnons   |
| RT  | feldspars<br>minerals   | fermions   | · ·   |
| RT  | feldspars   | fermions GS particles  | magnons  ferrimagnets  GS magnets   |
| RT felts  | feldspars<br>minerals   | fermions   | magnons  ferrimagnets  GS magnets . ferrimagnets  |
|   | feldspars<br>minerals   | fermions GS particles . elementary particles   | magnons  ferrimagnets  GS magnets . ferrimagnets  RT ferrimagnetism   |
| felts   | feldspars<br>minerals<br>quartz   | fermions  GS particles . elementary particles fermions   | magnons  ferrimagnets  GS magnets . ferrimagnets  |
| felts   | feldspars<br>minerals<br>quartz<br>fabrics  | fermions  GS particles   | magnons  ferrimagnets  GS magnets . ferrimagnets  RT ferrimagnetism   |
| felts<br>GS<br>RT                                   | feldspars minerals quartz  fabrics . felts wool   | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets   |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool   | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites   |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women  | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites  |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults   | fermions  GS particles . elementary particles . fermions . baryons . hyperons . i hyperons . omega-mesons . rho-mesons . sigma-mesons . eta-mesons . eta-mesons  | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite   |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women  | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels  |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children  | fermions  GS particles . elementary particles . fermions . baryons . hyperons . i hyperons . omega-mesons . rho-mesons . sigma-mesons . eta-mesons . eta-mesons  | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet   |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males  | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators  |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation   | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys  |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex   | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators  |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor  | fermions  GS particles elementary particles fermions baryons hyperons omega-mesons rho-mesons eta-mesons leptons antineutrinos electrons free electrons high energy electron beams   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores   |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex   | fermions  GS particles elementary particles fermions baryons hyperons whyperons whyperons who-mesons sigma-mesons eta-mesons eta-mesons eta-mesons eta-mesons eta-mesons heptons conduction electrons free electrons high energy electron beams who electrons who electrons whigh energy electron beams who electrons who electrons who electrons  | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel   |
| felts<br>GS<br>RT<br>females                        | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor  | fermions  GS particles elementary particles fermions baryons hyperons omega-mesons rho-mesons eta-mesons eta-mesons eta-mesons eleptons omega-mesons richons omega-mesons rho-mesons omega-mesons omega- | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels  |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor  | fermions  GS particles elementary particles fermions baryons hyperons whyperons whyperons who-mesons sigma-mesons eta-mesons eta-mesons eta-mesons eta-mesons eta-mesons heptons conduction electrons free electrons high energy electron beams who electrons who electrons whigh energy electron beams who electrons who electrons who electrons  | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet  |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  | fermions  GS particles   | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels  |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones  | GS particles elementary particles fermions baryons hyperons omega-mesons sigma-mesons eta-mesons leptons antineutrinos electrons free electrons high energy electron beams hot electrons hot electrons negatrons electrons players hot electrons negatrons negatrons negatrons negatrons negatrons negatrons negatrons   | regions  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet   |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur  | fermions  GS particles elementary particles fermions baryons baryons introduced by particles interest baryons introduced by particles interest baryons introduced bar | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet  |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy)   | GS particles elementary particles fermions baryons hyperons omega-mesons sigma-mesons eta-mesons eta-mesons eleptons antineutrinos electrons high energy electron beams hot electrons hot electrons negatrons electrons photoelectrons photoelectrons negatrons plectrons negatrons negatrons negatrons negatrons negatrons plectrons negatrons  | regions  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels   |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur  | GS particles elementary particles fermions baryons hyperons omega-mesons sigma-mesons eta-mesons leptons antineutrinos electrons free electrons high energy electron beams hot electrons N electrons platitions electrons platitions electrons platitions electrons platitions electrons e | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys . steels  |
| felts<br>GS<br>RT<br>females<br>UF<br>RT            | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy)   | GS particles elementary particles fermions baryons hyperons omega-mesons rho-mesons eta-mesons eleptons antineutrinos electrons free electrons high energy electron beams hot electrons n egatrons n egatrons epi-electrons supported place of the problem of the particles of th | magnons  ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys . steels stainless steels stainless steels  |
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| felts GS RT females UF RT  femur GS RT              | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  | fermions  GS particles elementary particles fermions baryons hyperons hyperons omega-mesons rho-mesons sigma-mesons eta-mesons leptons antineutrinos electrons free electrons high energy electron beams hot electrons negatrons photoelectrons photoelectrons sphotoelectrons photoelectrons sphotoelectrons photoelectrons photoelectrons splantary photoelectrons splantary   | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys . steels stainless steels stainless steels RT chromium steels ferrites   |
| felts GS RT females UF RT femur GS                  | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS  | GS particles elementary particles fermions baryons hyperons omega-mesons sigma-mesons eta-mesons leptons antineutrinos electrons high energy electron beams hot electrons negatrons photoelectrons pi-electrons pi-electrons negatrons photoelectrons pi-electrons pi-electrons negatrons pi-electrons pi-electrons pi-electrons pi-electrons pi-electrons polarons polarons polarons neutrinos neutrinos positrons muons neutrinos positrons meson resonance meson resonance  | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites  RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys . steels stainless steels  RT chromium steels ferrites heat treatment  |
| felts GS RT females UF RT  femur GS RT              | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) airfoil fences   | GS particles elementary particles fermions baryons hyperons omega-mesons eta-mesons eta-mesons eleptons orduction electrons free electrons high energy electrons hot electrons negatrons negatrons plotocetrons epi-electrons negatrons negatrons plotocetrons negatrons negatrons plotocetrons negatrons negatrons neutrinos neutrinos neutrinos neutrinos neutrinos neutrinos neutrons  | ferrimagnets GS magnets . ferrimagnets RT ferrimagnets BEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys . steels steels steels RT chromium steels ferrites heat treatment magnetic properties  |
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| felts GS RT females UF RT  femur GS RT fences SN RT | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) airfoil fences fences (barriers) tracking stations (barriers)   | GS particles elementary particles fermions baryons hyperons omega-mesons rho-mesons eta-mesons leptons antineutrinos electrons high energy electron beams hot electrons negatrons negatrons negatrons photoelectrons pleetcrons spletcrons spletcrons negatrons negatrons platoris platoris platoris polarons spletcrons neutrinos spletcrons negatrons negatrons platoris platoris polarons spletcrons neutrinos neutrinos neutrinos neutrinos neutrinos neosor resonance X mesons neutrons neutrons neutrons neutrons sploto resonance A meson resonance A meson resonance A mesons neutrons neutrons neutrons splotoreutrons neutrons neutrons splotoreutrons neutrons neutrons neutrons splotoreutrons   | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites  RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys steels stainless steels  RT chromium steels ferrites heat treatment magnetic properties mechanical properties   |
| felts GS RT females UF RT  femur GS RT fences RT    | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) airfoil fences fences (barriers) tracking stations  (barriers) barriers boundaries                         | GS particles elementary particles fermions baryons baryons baryons in hyperons in yi hyperons in omega-mesons in rho-mesons in sigma-mesons eta-mesons eta-mesons eleptons in electrons in electrons in free electrons in high energy electron beams in helectrons in relativistic electron beams in hot electrons in hot electrons in photoelectrons in pi-electrons in placetrons in polarons in solar electrons in muons in eutrinos in positrons in eutrinos in positrons in eutrinos in positrons in eutrons in electrons in positrons in eutrons in electrons in eutrons in eutrons in eutrons in eutrons in eutrons in eutrons in electrons in eutrons  | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys . steels stainless steels stainless steels RT chromium steels ferrites heat treatment magnetic properties mechanical properties  ferroalloys  USE iron alloys                       |
| felts GS RT females UF RT  femur GS RT fences RT    | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoil fences fences (barriers) tracking stations  (barriers) barriers boundaries                           | GS particles elementary particles fermions baryons hyperons with hyperons omega-mesons eta-mesons eta-mesons eleptons antineutrinos electrons free electrons high energy electron beams hot electrons hot electrons photoelectrons placetrons positrons muons positrons meson resonance X mesons neutrinos positrons meson resonance S dar neutrons placetrons positrons meson resonance S meson resonance A mesons photoneutrons photoneutrons photoneutrons protons recoil protons  | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys steels stainless steels RT chromium steels ferrites heat treatment magnetic properties mechanical properties  ferroalloys USE iron alloys  ferrocenes                                  |
| felts GS RT females UF RT  femur GS RT fences RT    | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) airfoil fences fences (barriers) tracking stations  (barriers) barriers boundaries                         | GS particles elementary particles fermions baryons hyperons with hyperons omega-mesons eta-mesons eta-mesons eleptons antineutrinos electrons free electrons high energy electron beams hot electrons negatrons negatrons photoelectrons pi-electrons pi-electrons polarons polarons solar neutrinos electrons who telectrons conduction electrons conduction electrons pi-electrons placetrons placetrons polarons polarons solar electrons muons neutrinos cold neutrons positrons meson resonance X mesons neutrons photoneutrons solar neutrons fast neutrons protons protons thermal neutrons protons recoil protons solar protons  | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys steels stainless steels RT chromium steels ferrites heat treatment magnetic properties mechanical properties  ferroalloys USE iron alloys  ferrocenes GS iron compounds             |
| felts GS RT females UF RT  femur GS RT fences RT    | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system . bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) airfoil fences fences (barriers) tracking stations  (barriers) barriers boundaries fences gates (openings) | GS particles elementary particles fermions baryons hyperons with hyperons omega-mesons eta-mesons eta-mesons eleptons electrons electrons free electrons high energy electron beams hot electrons negatrons negatrons photoelectrons pi-electrons polarons polarons neutrinos neutrinos electrons  negatrons negatrons photoelectrons polarons polarons solar electrons neutrinos electrons neutrinos electrons negatrons negatrons photoelectrons polarons cold relectrons neutrinos solar electrons neutrinos solar neutrinos solar neutrinos solar neutrons neutrons neutrons electrons neutrons neutrons neutrons neutrons neutrons neutrons solar neutrons electrons neutrons neutrons neutrons solar neutrons solar neutrons electrons neutrons solar neutrons solar neutrons solar neutrons electrons solar protons solar protons solar protons solar protons solar protons   | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys steels stainless steels RT chromium steels ferrites heat treatment magnetic properties mechanical properties  ferroalloys USE iron alloys ferrocenes GS iron compounds . ferrocenes |
| felts GS RT females UF RT  femur GS RT fences RT    | feldspars minerals quartz  fabrics . felts wool  women adults children gynecology human beings males menstruation sex sex factor zygotes  anatomy . musculoskeletal system bones femur knee (anatomy) leg (anatomy)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) airfoil fences fences (barriers) tracking stations  (barriers) barriers boundaries                           | GS particles elementary particles fermions baryons hyperons with hyperons omega-mesons eta-mesons eta-mesons eleptons antineutrinos electrons free electrons high energy electron beams hot electrons negatrons negatrons photoelectrons pi-electrons pi-electrons polarons polarons solar neutrinos electrons who telectrons conduction electrons conduction electrons pi-electrons placetrons placetrons polarons polarons solar electrons muons neutrinos cold neutrons positrons meson resonance X mesons neutrons photoneutrons solar neutrons fast neutrons protons protons thermal neutrons protons recoil protons solar protons  | ferrimagnets GS magnets . ferrimagnets RT ferrimagnetism permanent magnets  ferrites  DEF Solid solutions of carbon in alpha-iron. GS iron compounds . ferrites RT austenite ferritic stainless steels gadolinium-gallium garnet gyrators iron alloys magnetic cores microstructure pearlite spinel steels yttrium-aluminum garnet yttrium-iron garnet  ferritic stainless steels GS alloys . iron alloys steels stainless steels RT chromium steels ferrites heat treatment magnetic properties mechanical properties  ferroalloys USE iron alloys  ferrocenes GS iron compounds             |

reproductive systems

. . alkylferrocene permanent magnets fever smart materials RT ferroelastic materials body temperature vokes hyperthermia (added June 1998) skin temperature (biology) GS ferroelastic materials ferromagnetic resonance . shape memory alloys resonance Feynman diagrams . nitinol alloys . magnetic resonance diagrams GS ceramics . ferromagnetic resonance . Feynman diagrams electromagnetic interactions Minkowski space ferroelasticity magnetic fields ferroelectric materials paramagnetic resonance ∞ materials particle interactions quantum electrodynamics smart materials ferromagnetism magnetic properties ferroelasticity ferromagnetism FFAR rocket vehicle (added June 1998) antiferromagnetism Folding Fin aircraft rocket vehicle GS mechanical properties Curie temperature . elastic properties Curie-Weiss law Ffowcs Williams-Hawkings equation . ferroelasticity diamagnetism (added December 2006) crystal structure Ising model DEF A governing equation of noise generadomain wall Langevin formula tion by sources on, and the fluid motion in the ferroelastic materials magnetic cores vicinity of a moving surface based on the acousferroelectricity tic analogy. It is an inhomogeneous linear wave magnetic dispersion phase transformations magnets equation. The inhomogeneous terms of this shape memory alloys magnons equation are known as thickness, loading, and smart materials quadrupole (nonlinear) source terms. UF FW-H equation ferroelectric materials ferrous metals GS algebra (added March 1997) GS metals . linear equations barium titanates ferrous metals . . Ffowcs Williams-Hawkings ceramics alloys equation ferroelastic materials chemical elements analysis (mathematics) ferroelectricity iron . real variables ferromagnetic materials iron isotopes . . differential equations lead zirconate titanates metallurgy partial differential equations liquid crystals 
∞ materials .... Ffowcs Williams-Hawkings ferry spacecraft equation ∞ polymers space buses . . linear equations . . . Ffowcs Williams-Hawkings smart materials GS maneuverable spacecraft thin films ferry spacecraft equation manned spacecraft wave equations
Flowcs Williams-Hawkings ferroelectricity . ferry spacecraft Astro vehicle cargo spacecraft GS electrical properties . ferroelectricity antiferroelectricity equation aeroacoustics Columbus space station MARS (Manned Reusable Curie temperature dielectric properties aerodynamic noise aircraft noise Spacecraft) blade slap noise ferroelasticity reentry vehicles rendezvous spacecraft reusable spacecraft flow noise ferroelectric materials noise prediction microwave switching noise prediction (aircraft) soft landing spacecraft propeller noise ferrofluids space stations rotor aerodynamics liquids GS . ferrofluids surface noise interactions fertility wave propagation magnetic materials . ferromagnetic materials . . ferrofluids breeding (reproduction) fertilization USE reproduction (biology) fast Fourier transformations RT dispersions reproductive systems ∞ fluids FGM (materials) zygotes magnetorheological fluids USE functionally gradient materials microparticles suspending (mixing) fertilization FH-1100 helicopter suspensions birth USE OH-5 helicopter working fluids fertility in vitro methods and tests Fiat aircraft ferrography recombination reactions GS Fiat aircraft A technique for the isolation and analy-∞ reproduction G-91 aircraft sis of wear particles in a lubricant. spermatozoa G-95/4 aircraft fatigue tests zygotes G-222 aircraft metallography RT ∞ aircraft wear tests fertilizers ammonia Fiat G-91 aircraft ferromagnetic films USE G-91 aircraft ammonium nitrates magnetic materials ashes . ferromagnetic materials Fiat G-95/4 aircraft cultivation . ferromagnetic films USE G-95/4 aircraft planting thin films ureas . ferromagnetic films Fiat G-222 aircraft vegetation growth USE G-222 aircraft ferromagnetic materials FET (transistors) GS magnetic materials fiber bridging USE field effect transistors . ferromagnetic materials USE crack bridging . . ferrofluids . . ferromagnetic films fetuses fiber composites . . magnetite foetuses DEF Structural materials consisting of com-UF . Permalloys (trademark) RT birth binations of metals or alloys or plastics rein-

eggs

embryology

reproduction (biology)

embryos

∞ materials

. ferrocenes

ferrimagnetic materials

ferroelectric materials

magnets

magnetorheological fluids

forced with one or more types of fibers.

. . aramid fiber composites

. fiber composites

GS composite materials

. . braided composites Sagnac effect reinforcing fibers . . carbon fiber reinforced plastics scintillating fibers ... carbon-phenolic composites smart structures fiberboard . . glass fiber reinforced plastics vidicons USE boards (paper) . woven composites aluminum boron composites fiberalass fiber orientation aluminum graphite composites USE glass fibers RT aramid fibers aramid fibers boron fibers boron fibers fiber-matrix interfaces ceramic fibers boron reinforced materials (added July 1994) composite materials boron-epoxy composites interfaces dynamic response Borsic (tradename) . fiber-matrix interfaces epoxy matrix composites carbon fibers composite materials fiber volume fraction carbon-carbon composites fiber composites glass fiber reinforced plastics carbon-silicon carbide composites fiber pushout impact loads ceramic fibers interfacial energy lay-up chemical vapor infiltration matrix materials mechanical properties composite wrapping reinforcing fibers ∞ orientation crack bridging debonding (materials) fiber pullout reinforcing fibers fibers stacking sequence (composite UF fibrous materials materials) fiber pushout fiber volume fraction Refrasil (trademark) fibers fiber-matrix interfaces filament winding fiber pullout . cotton fibers fiber release . hair functionally gradient materials GS releasing . linen graphite fiber pullout . metal fibers graphite-epoxy composites adhesive bonding . microfibers hybrid composites carbon fibers . optical fibers kink bands ceramic matrix composites . . scintillating fibers kinking composite materials . plastic fibers . reinforcing fibers laminates failure analysis matrix materials fiber composites . . aramid fibers . . . Kevlar (trademark) metal fibers fiber pushout metal matrix composites fibers . . boron fibers interfacial energy . . carbon fibers polymer matrix composites ∞ materials tests silk pultrusion metal matrix composites . synthetic fibers reinforced plastics reinforcing fibers . . aramid fibers reinforcing fibers ... Kevlar (trademark) reinforcing materials . . ceramic fibers fiber pushout resin transfer molding Dacron (trademark) (added September 1999) sheet molding compounds releasing
. fiber pushout
ceramic matrix composites
composite materials
debonding (materials) ... Fortisan (trademark) GS stacking sequence (composite glass fibers materials) . . Nylon (trademark) superhybrid materials . . rayon three dimensional composites . . Výcor wool RT boron reinforced materials fiber lasers failure modes carbon fiber reinforced plastics (added October 1997) fiber composites GS electronic equipment composite materials fiber pullout solid state devices cordage fiber-matrix interfaces . . solid state lasers cotton fibers . . fiber lasers fabrics interfacial energy stimulated emission devices fiber pullout ∞ materials tests fiber pushout lasers metal matrix composites . . solid state lasers ∞ filaments reinforcing fibers . . . fiber lasers
. . waveguide lasers
. . fiber lasers glass fiber reinforced plastics metal matrix composites netting (materials/structures) fiber release papers USE fiber pullout fiber optics polymeric films reinforcing materials laser materials laser pumping fiber strength light amplifiers slivers GS mechanical properties optical fibers strands fiber strength optical pumping textiles RT aramid fibers wet spinning semiconductor lasers bending whiskers (crystals) boron fibers varns ceramic fibers The technique of transmitting light compressive strength fibers (mathematics) through long thin, flexible fibers of glass, plastic, fiber volume fraction RT canonical forms or other transparent materials. Hookes law dimensional analysis Cassegrain optics Poisson ratio function space crystal optics shear strength group theory electron tubes ∞ strength homotopy theory evanescent waves tensile strength manifolds (mathematics) fiber lasers topology fly by light control geometrical optics fiber volume fraction Fibonacci numbers gradient index optics (added April 1992) light emitting diodes composition (property) RT number theory light transmission ∞ numbers . concentration (composition) . . fiber volume fraction set theory numerical aperture optical fibers ratios ∞ optics . fiber volume fraction fibrillation optoelectronic devices composite materials RT heart function GS

fiber composites fiber orientation

fiber strength

fibrillation

heart diseases

muscles

RT

photonics physical optics

plastic fibers

seismocardiography upper atmosphere visual fields field sails fibrin field army ballistic missiles USE magnetic sails biopolymers GS missiles . proteins . ballistic missiles field strength fibrin . field army ballistic missiles DEF For any physical field, the flux density, body fluids intermediate range ballistic missiles intensity, or gradient of the field at the point in . blood short range ballistic missiles auestion. . fibrin GS field strength organic compounds . electric field strength . proteins field coils . magnetic flux fibrin GS electric coils acoustic properties blood coagulation . magnetic coils directivity electric fields coagulation . field coils electromagnets fibrinogen electrical properties thrombin helical inducers electromagnetic fields magnet coils flux density gravitational fields fibrinogen GS biopolymers field effect transistors isotropy . proteins cascode MOSFET magnetic diffusion . . globulins FET (transistors) magnetic fields . fibrinogen IGFÈT magnetic properties body fluids **MESFETs**  $\infty$  orientation . blood **MISFETs** permittivity . . fibrinogen MOSFET ∞ strength organic compounds unipolar transistors . proteins electronic equipment field tests . . globulins . solid state devices (added November 1998) . . fibrinogen . . semiconductor devices (EXCLUDES TESTS OF ELECTRIC, MAGNETIC, OR ELECTROMAGNETIC RT fibrin . . . transistors hemostatics .... field effect transistors FIELDS)
Tests carried out in the actual setting in homeostasis . . . . charge flow devices thrombin which the subject device is intended to operate. . . . . . JFET environmental tests .... MODFETS performance tests fibroblasts RT cascode devices GS cells (biology) ∞ effects fibroblasts high electron mobility transistors field theory (algebra) cytoplasm indium aluminum arsenides GS field theory (algebra) osteoblasts ion implantation tendons cubic equations SOI (semiconductors) quadratic equations tissues (biology) RT ∞ fields field emission Green's functions fibrosis GS emission homomorphisms GS diseases . particle emission nonlinear equations fibrosis . . electron emission ∞ theories . cystic fibrosis . field emission tissues (biology) electric fields field theory (physics) electron microscopes ambit fibrous materials electron microscopy force fields USE fibers magnetic fields Wightman theory GS **field theory (physics)** . crystal field theory scanning electron microscopy secondary emission Ficks equation transmission electron microscopy . gauge theory diffusion RT Zener effect . . quantum chromodynamics diffusion coefficient . . unified field theory ∞ equations . . . electroweak model reaction-diffusion equations field intensity meters . . . standard model (particle physics) Tafel law (EMPLOY THIS TERM WHEN TYPE OF FIELD INVOLVED IS NOT SPECIFIED—OTHERWISE USE A MORE SPECIFIC TERM) measuring instruments . field intensity meters grand unified theory antenna radiation patterns fidelity attraction USÉ accuracy GS boson fields closure law fiduciaries actinometers crossed fields RT economics flux density Dirac equation magnetometers finance distribution (property) management noise meters ∞ dynamics electromagnetic fields field aligned currents far fields field mode theory (added September 1988) o fields cavity resonators flow distribution DEF Electric currents aligned along magdielectrics netic fields. flux (rate) electromagnetic fields electric current flux density laser modes . field aligned currents function space optical resonators . . Birkeland currents geomagnetism propagation modes aeronomy gravitational fields atmospheric electricity Green's functions Earth ionosphere light-cone expansion magnetic field inversions Earth magnetosphere geoelectricity The area or solid angle that can be magnetic fields geomagnetic tail magnetostatic fields viewed through or scanned by an optical instrumany body problem multipolar fields geomagnetism ment. geophysics GS viewing ionospheric currents field of view nuclear physics lines of force bearing (direction) null zones conical scanning magnetic field reconnection ∞ physics Pedersen currents Pomeranchuk theorem elevation angle potential fields plasma currents ∞ fields telluric currents look angles (tracking)

pressure distribution

# field-programmable gate arrays

|          | quantum electrodynamics  |   | Scimitar aircraft   |  | scrapers   |
|----------|--|---|---|--|--|
|          | quantum theory   |   | Vampire MK 35 aircraft  |  |  |
|          | radiation distribution   |   | YF-12 aircraft  | fillers  |  |
|          |  | DT .  | ∘ aircraft  | RT   | additives  |
|          | relativity   | KI °  |   |  |  |
|          | self consistent fields   |   | highly maneuverable aircraft  | C  | ∘ cells  |
|          | sound fields   | ۰   | o interceptors  |  | dopes  |
|          | string theory  |   | jet aircraft  |  | opacifiers   |
|          | strong interactions (field theory)   | ۰   | <ul> <li>military aircraft</li> </ul>   |  | paints   |
|          | supergravity   | ٥   | military aviation   |  | pigments   |
|          | supersymmetry  |   | MRCA aircraft   |  | primers (coatings)   |
|          | temperature distribution   |   | single engine aircraft  |  | reinforcement (structures)   |
|          | tensors  |   | STOVL aircraft  |  | resins   |
|          | • theories   |   |   |  | sealers  |
| 0        |  |   | supersonic aircraft   |  |  |
|          | traveling charge   |   | training aircraft   |  | sizing materials   |
|          | weak interactions (field theory)   |   | V/STOL aircraft   |  | varnishes  |
|          | Yang-Mills fields  |   | X-31 aircraft   |  |  |
|          | Yang-Mills theory  |   |   | fillets  |  |
|          | zero point energy  | figure o  | of merit  | RT   | fairings   |
|          | 1 0,   | RT  | acceptability   |  | joints (junctions)   |
| field-pr | ogrammable gate arrays   |   | ∘ analyzing   |  | seams (joints)   |
|          |  |   | criteria  |  | welding  |
|          | ed April 2000)   |   |   |  | g  |
| GS       | circuits   |   | efficiency  | filling  |  |
|          | . gates (circuits)   |   | evaluation  |  | filling  |
|          | field-programmable gate arrays   |   | modulation transfer function  | 00   |  |
|          | . integrated circuits  |   | optical transfer function   |  | . refilling  |
|          | field-programmable gate arrays   | ۰   | o performance   | RT   | accumulations  |
|          | reconfigurable hardware  |   | Q factors   | c  | charging   |
|          | •  |   | quality   |  | extensions   |
|          | . programmable logic devices   |   |   |  | injection  |
|          | field-programmable gate arrays   |   | selection   |  | input  |
| RT       | evolvable hardware   |   | value   |  |  |
|          |  |   |   | c  | ∘ loading  |
| ∞ fields |  | filamen   | t winding   |  | replenishment  |
| SN       | (USE OF A MORE SPECIFIC TERM IS  | UF  | filament wound construction   |  | supplying  |
| SIN      | RECOMMENDEDCONSULT THE TERMS   | GS  | winding   |  |  |
|          | LISTED BELOW)  | 00  | •   | film bo  | ilina  |
| RT       | boson fields   |   | . filament winding  |  | phase transformations  |
| 13.1     | electric fields  | RT  | ceramic fibers  | 00   | · · · · · · · · · · · · · · · · · · ·  |
|          |  |   | composite wrapping  |  | . vaporizing   |
|          | field of view  |   | fiber composites  |  | boiling  |
|          | field theory (algebra)   |   | isotensoid structures   |  | film boiling   |
|          | field theory (physics)   |   | laminates   | RT   | heat transfer  |
|          | gravitational fields   |   |   |  | Leidenfrost phenomenon   |
|          | magnetic fields  |   | metal fibers  |  | nucleate boiling   |
|          |  |   | netting (materials/structures)  |  | nucleate boiling   |
|          | military air facilities  |   | preimpregnation   | £1   |  |
|          | self consistent fields   |   |   |  | ndensation   |
|          | visual fields  | filameni  | wound construction  | GS   | condensing   |
|          |  |   |   |  | . film condensation  |
| fighter  | aircraft   | USE   | filament winding  | RT   | condensers (liquefiers)  |
| -        |  |   |   | 111  | cooling  |
| UF       | Interceptor aircraft   |   | its   |  |  |
| GS       | attack aircraft  | SN  | (USE OF A MORE SPECIFIC TERM IS   |  | heat transfer  |
|          | . fighter aircraft   |   | RECOMMENDEDCONSULT THE TERMS  |  |  |
|          |  |   | LISTED BELOW)   |  | oling  |
|          | Alpha iet aircraft   |   |   | film co  |  |
|          | Alpha jet aircraft<br>DH 112 aircraft  | RT  | boron fibers  |  | The cooling of a body or surface, such   |
|          | DH 112 aircraft  | RT  |   | DEF  |  |
|          | DH 112 aircraft<br>F-2 aircraft  | RT  | boron fibers carbon fibers  | DEF as the   | inner surface of a rocket combustion   |
|          | DH 112 aircraft<br>F-2 aircraft<br>F-4 aircraft  | RT  | boron fibers<br>carbon fibers<br>cathodes   | DEF<br>as the<br>chambe  | inner surface of a rocket combustioner, by maintaining a thin fluid layer over   |
|          | DH 112 aircraft<br>F-2 aircraft  | RT  | boron fibers carbon fibers cathodes ceramic fibers  | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustioner, by maintaining a thin fluid layer over<br>cted area.   |
|          | DH 112 aircraft<br>F-2 aircraft<br>F-4 aircraft  | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage  | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustion<br>or, by maintaining a thin fluid layer over<br>cted area.<br>cooling  |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft  | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers   | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustioner, by maintaining a thin fluid layer over<br>cted area.   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage  | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustion<br>or, by maintaining a thin fluid layer over<br>cted area.<br>cooling  |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-9 aircraft F-14 aircraft  | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers   | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustion<br>or, by maintaining a thin fluid layer over<br>cted area.<br>cooling<br>. evaporative cooling<br>film cooling   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-9 aircraft F-14 aircraft F-15 aircraft  | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials  | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustion or, by maintaining a thin fluid layer over cted area. cooling . evaporative cooling . film cooling . liquid cooling   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-14 aircraft F-14 aircraft F-16 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors  | DEF<br>as the<br>chambe<br>the affe<br>GS                                | inner surface of a rocket combustion or, by maintaining a thin fluid layer over cted area.  cooling . evaporative cooling . film cooling . liquid cooling . film cooling   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-15 aircraft F-17 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands  | DEF<br>as the<br>chambe<br>the affe                                      | inner surface of a rocket combustion, by maintaining a thin fluid layer over cted area.  cooling . evaporative cooling . film cooling . liquid cooling . film cooling liquid injection   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-14 aircraft F-14 aircraft F-16 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments   | DEF<br>as the<br>chambe<br>the affe<br>GS                                | inner surface of a rocket combustion of the process of the combustion of the control of the cont |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-15 aircraft F-17 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning  | DEF<br>as the<br>chambe<br>the affe<br>GS                                | inner surface of a rocket combustion, by maintaining a thin fluid layer over cted area.  cooling . evaporative cooling . film cooling . liquid cooling . film cooling liquid injection   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-17 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments   | DEF<br>as the<br>chambe<br>the affe<br>GS                                | inner surface of a rocket combustion of the process of the combustion of the control of the cont |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-20 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning  | DEF<br>as the<br>chambe<br>the affe<br>GS                                | inner surface of a rocket combustion or, by maintaining a thin fluid layer over cted area.  cooling  . evaporative cooling . film cooling . liquid cooling . film cooling liquid injection surface cooling sweat cooling   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-15 aircraft F-16 aircraft F-17 aircraft F-17 aircraft F-18 aircraft F-20 aircraft F-20 aircraft F-20 aircraft F-84 aircraft   | RT  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals)  | DEF<br>as the<br>chambe<br>the affe<br>GS<br>RT                          | inner surface of a rocket combustion, by maintaining a thin fluid layer over cted area.  cooling . evaporative cooling . film cooling . liquid cooling . film cooling liquid injection surface cooling sweat cooling   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-18 aircraft F-84 aircraft F-20 aircraft F-20 aircraft F-20 aircraft F-24 aircraft F-86 aircraft F-86 aircraft   |   | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire   | DEF<br>as the<br>chambe<br>the affe<br>GS                                | inner surface of a rocket combustion r, by maintaining a thin fluid layer over cted area. cooling evaporative cooling film cooling liquid cooling liquid injection surface cooling sweat cooling ckness dimensions   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-16 aircraft F-16 aircraft F-18 aircraft F-8 aircraft F-8 aircraft F-8 aircraft F-9 aircraft F-18 aircraft F-20 aircraft F-20 aircraft F-84 aircraft F-84 aircraft F-84 aircraft F-89 aircraft   | filameni  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire   | DEF<br>as the<br>chambe<br>the affe<br>GS<br>RT<br><b>film thi</b><br>GS | inner surface of a rocket combustion of the process of the surface of a rocket combustion of the process of the surface cooling and the surface cooling and the surface cooling surface cooling sweat cooling cooling surface  |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-18 aircraft F-84 aircraft F-20 aircraft F-20 aircraft F-20 aircraft F-24 aircraft F-86 aircraft F-86 aircraft   | filameni  | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire   | DEF<br>as the<br>chambe<br>the affe<br>GS<br>RT                          | inner surface of a rocket combustion of the property of the provided area. The cooling of the co |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-16 aircraft F-16 aircraft F-18 aircraft F-8 aircraft F-8 aircraft F-8 aircraft F-9 aircraft F-18 aircraft F-20 aircraft F-20 aircraft F-84 aircraft F-84 aircraft F-84 aircraft F-89 aircraft   | filament<br>USE   | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire  is (solar physics) solar prominences   | DEF<br>as the<br>chambe<br>the affe<br>GS<br>RT<br><b>film thi</b><br>GS | inner surface of a rocket combustion of the process of the surface of a rocket combustion of the process of the surface cooling and the surface cooling and the surface cooling surface cooling sweat cooling cooling surface  |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-17 aircraft F-17 aircraft F-18 aircraft F-20 aircraft F-20 aircraft F-84 aircraft F-84 aircraft F-89 aircraft F-99 aircraft F-99 aircraft F-99 aircraft F-99 aircraft F-90 aircraft F-90 aircraft F-90 aircraft   | filameni<br>USE<br>file mai   | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire  s (solar physics) solar prominences ntenance (computers)   | DEF as the chambee the affe GS  RT  film thi GS  RT                      | inner surface of a rocket combustion of the property of the provided area. The cooling of the co |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-18 aircraft F-20 aircraft F-20 aircraft F-20 aircraft F-29 aircraft F-84 aircraft F-94 aircraft F-94 aircraft F-9100 aircraft F-101 aircraft  | filameni<br>USE<br>file mai   | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire  is (solar physics) solar prominences   | DEF<br>as the<br>chambe<br>the affe<br>GS<br>RT<br><b>film thi</b><br>GS | inner surface of a rocket combustion of the property of the provided area. The cooling of the co |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-18 aircraft F-20 aircraft F-20 aircraft F-24 aircraft F-86 aircraft F-86 aircraft F-89 aircraft F-94 aircraft F-94 aircraft F-94 aircraft F-100 aircraft F-101 aircraft F-102 aircraft F-102 aircraft   | filameni<br>USE<br>file mai   | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire  is (solar physics) solar prominences  ntenance (computers) maintenance   | DEF as the chambee the affe GS  RT  film thi GS  RT                      | inner surface of a rocket combustion r, by maintaining a thin fluid layer over cted area. cooling evaporative cooling film cooling liquid cooling liquid injection surface cooling sweat cooling ckness dimensions film thickness ellipsometry thickness   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-16 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-8 aircraft F-9 aircraft F-10 aircraft F-101 aircraft F-102 aircraft F-104 aircraft F-104 aircraft  | filament<br>USE<br><b>file mai</b><br>GS                                    | boron fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire  is (solar physics) solar prominences  ntenance (computers) maintenance . file maintenance (computers)  | DEF as the chambe the affe GS  RT  film thi GS  RT                       | inner surface of a rocket combustion or, by maintaining a thin fluid layer over cted area.  cooling  evaporative cooling  film cooling  film cooling  liquid cooling  liquid injection surface cooling  sweat cooling  ckness  dimensions  film thickness  ellipsometry  thickness   |
|          | DH 112 aircraft F-2 aircraft F-4 aircraft F-5 aircraft F-8 aircraft F-9 aircraft F-14 aircraft F-15 aircraft F-15 aircraft F-16 aircraft F-17 aircraft F-18 aircraft F-20 aircraft F-22 aircraft F-84 aircraft F-84 aircraft F-89 aircraft F-99 aircraft F-90 aircraft F-101 aircraft F-102 aircraft F-102 aircraft F-104 aircraft F-104 aircraft F-105 aircraft F-105 aircraft F-104 aircraft F-105 aircraft F-105 aircraft F-105 aircraft  | filameni<br>USE<br>file mai   | boron fibers carbon fibers carbon fibers cathodes ceramic fibers cordage fibers ionizers reinforcing materials resistors strands vortex filaments wet spinning whiskers (crystals) wire  is (solar physics) solar prominences  ntenance (computers) maintenance file maintenance (computers) checkout   | DEF as the chambe the affe GS  RT  film thi GS  RT     films SN          | inner surface of a rocket combustion of the process of the surface of a rocket combustion of the process of the surface cooling and the surface cooling and the surface cooling surface cooling surface cooling sweat cooling compared to the surface cooling compared to surface cooling surface cooling surface cooling surface cooling surface cooling surface cooling compared to surface  |
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|                 | polymeric films  |   | beds (process engineering)   |   | thickness ratio   |
|-----------------|--|---|--|---|---|
|                 | semiconducting films   |   | beneficiation  | _   |   |
|                 | silicon films  |   | concentrating  | fines                                     |   |
|                 | squeeze films  | ~   | oconcentration   | GS  | particles   |
|                 | superconducting films  |   | concentrators  |   | . powder (particles)  |
|                 | thermoplastic films  |   | effluents  |   | fines   |
|                 | thick films  |   | extraction   | RT o                                      | ∞ fine  |
|                 | thin films   |   | fluid filters  | ۰   | ∞ flour   |
|                 | video tapes  |   | hydrometallurgy  |   | fractions   |
|                 | webs (sheets)  |   | materials recovery   |   | particle size distribution  |
|                 | 11020 (0.10010)  |   | percolation  | ۰   | ∞ screening   |
| filter wh       | neel infrared spectrometers  |   | precipitation (chemistry)  |   |   |
| GS              | measuring instruments  |   | screening  | fingers                                   |   |
| 00              | . optical measuring instruments  |   | separation   | GS  | anatomy   |
|                 | infrared spectrometers   | ~   | sewage treatment   | 00  | . limbs (anatomy)   |
|                 | filter wheel infrared  |   | 0  |   | hand (anatomy)  |
|                 |  |   | size separation  |   | fingers   |
|                 | spectrometers  |   | water treatment  |   |   |
|                 | . radiation measuring instruments  |   |  |   | appendages  |
|                 | actinometers   | finance   |  |   | . hand (anatomy)  |
|                 | infrared spectrometers   | RT  | accounting   | DT  | fingers   |
|                 | filter wheel infrared  |   | commerce   | RT  | sense organs  |
|                 | spectrometers  |   | fiduciaries  | <i>c</i>                                  | ( h - ti)   |
|                 | infrared instruments   |   | gross national product   |   | (robotics)  |
|                 | infrared spectrometers   |   | investments  | USE                                       | end effectors   |
|                 | filter wheel infrared  |   | management planning  |   |   |
|                 | spectrometers  |   | marketing  | finishes                                  |   |
|                 | . spectrometers  |   | risk   | GS  | finishes  |
|                 | infrared spectrometers   |   | wage surveys   |   | . enamels   |
|                 | filter wheel infrared  |   | wago carveyo   |   | . glazes  |
|                 | spectrometers  |   |  |   | . lacquers  |
|                 | optical equipment  |   | al management  | RT  | ceramic coatings  |
|                 | optical measuring instruments  | GS  | management   |   | coatings  |
|                 | infrared spectrometers   |   | . financial management   |   | corrosion   |
|                 | filter wheel infrared  | RT  | aircraft production costs  |   | dopes   |
|                 | spectrometers  |   | allocations  |   | impregnating  |
| RT              | Ebert spectrometers  |   | budgeting  |   | luster  |
|                 | filters  |   | cost analysis  |   | machining   |
|                 | infrared spectrophotometers  |   | cost estimates   |   | metallizing   |
|                 | solar spectrometers  |   | costs  |   | paints  |
|                 | Solal Spectionicies  |   | economy  |   | plating   |
| C: 14 ~ ~ ~ ~ ~ |  |   | federal budgets  |   | polishing   |
| filtergra       |  |   | launch costs   |   | primers (coatings)  |
| RT              | optical filters  |   | life cycle costs   |   | protective coatings   |
|                 | solar instruments  |   | procurement management   |   | sizing (surface treatment)  |
|                 | solar physics  |   | production management  |   | sprayed coatings  |
|                 | solar spectra  | _   |  |   | surface finishing   |
|                 |  | ∞ fine  |  |   | surface properties  |
| filtering       |  | SN  | (USE OF A MORE SPECIFIC TERM IS  |   | varnishes   |
| USE             | filtration   |   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   |   | veneers   |
|                 |  | RT  | fine structure   |   | waxes   |
|                 |  |   | fineness   |   | waxes   |
| filters         |  |   | fineness ratio   | finito d                                  | ifference theory  |
| filters<br>SN   | (USE OF A MORE SPECIFIC TERM IS  |   |  |   | inerence ineory   |
|                 | RECOMMENDEDCONSULT THE TERMS   |   | _  |   | analysis (mathematics)  |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)  |   | fines  | GS  | analysis (mathematics)  |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)   |   | fines  |   | . numerical analysis  |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)<br>adaptive filters   | fine str  | fines  |   | . numerical analysis approximation  |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)<br>adaptive filters<br>air filters  | UF  | fines ucture multiplets  |   | . numerical analysis approximation finite difference theory   |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)<br>adaptive filters<br>air filters<br>attenuators   | UF  | fines  ucture  multiplets alpha decay  |   | numerical analysis approximation finite difference theory finite difference time domain   |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)<br>adaptive filters<br>air filters<br>attenuators<br>bandpass filters   | UF  | fines ucture multiplets  | GS  | numerical analysis approximation finite difference theory finite difference time domain method  |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)<br>adaptive filters<br>air filters<br>attenuators<br>bandpass filters<br>bandstop filters   | UF<br>RT  | fines  ucture  multiplets alpha decay  |   | numerical analysis approximation finite difference theory finite difference time domain method Crank-Nicholson method   |
| SN              | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>absorbers (materials)<br>adaptive filters<br>air filters<br>attenuators<br>bandpass filters<br>bandstop filters<br>birefringent filters   | UF<br>RT  | fines  ucture  multiplets alpha decay atomic structure   | GS  | numerical analysis approximation finite difference theory finite difference time domain method Crank-Nicholson method difference equations  |
| SN              | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters   | UF<br>RT  | fines  ucture  multiplets alpha decay atomic structure   | GS  | numerical analysis approximation inite difference theory inite difference time domain method Crank-Nicholson method difference equations differences  |
| SN              | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters digital filters   | UF<br>RT  | fines  ucture  multiplets alpha decay atomic structure fine hyperfine structure  | GS  | numerical analysis approximation finite difference theory finite difference time domain method Crank-Nicholson method difference equations differences essentially non-oscillatory schemes  |
| SN              | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters digital filters electric filters  | UF<br>RT<br>∝                                       | fines  ucture  multiplets alpha decay atomic structure fine hyperfine structure line spectra   | GS  | numerical analysis approximation inite difference theory inite difference time domain method Crank-Nicholson method difference equations differences essentially non-oscillatory schemes extrapolation  |
| SN              | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters digital filters electric filters electromagnetic wave filters   | UF<br>RT<br>∝                                       | fines  ucture  multiplets alpha decay atomic structure fine hyperfine structure line spectra spectral energy distribution  | GS  | numerical analysis approximation inite difference theory inite difference time domain method Crank-Nicholson method difference equations differences equations differences exentially non-oscillatory schemes extrapolation flux difference splitting   |
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| SN<br>RT<br>UF  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters digital filters electric filters electronic filters filter wheel infrared spectrometers FIR filters fluid filters Gabor filters high pass filters image filters kalman filters low pass filters matched filters monochromatic radiation nonlinear filters radar filters reduced order filters separators spatial filtering tunable filters  | finenes RT  finenes DEF maximu mensior airship f GS | fines  ducture  multiplets alpha decay atomic structure ine hyperfine structure line spectra spectral energy distribution structures  s  coarseness fine fineness ratio particle size distribution purity quality size (dimensions) textures  s ratio  The ratio of the length of a body to its m diameter or to some equivalent dialers aid especially of a body such as an null or rocket. ratios . aspect ratio . fineness ratio dimensional analysis dimensions offine fineness  | GS<br>RT<br><b>finite d</b><br>(add<br>UF | numerical analysis approximation finite difference theory finite difference time domain method Crank-Nicholson method difference equations differences essentially non-oscillatory schemes extrapolation flux difference splitting flux vector splitting Godunov method grid generation (mathematics) interpolation multigrid methods perfectly matched layers significance theories time marching TVD schemes upwind schemes (mathematics) vortex in cell technique ifference time domain method ded April 1999) FDTD (mathematics) analysis (mathematics) . numerical analysis . approximation . finite difference time domain method time domain analysis  |
| SN<br>RT        | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters digital filters electric filters electromagnetic wave filters electronic filters filter wheel infrared spectrometers FIR filters fluid filters Gabor filters high pass filters image filters low pass filters inear filters matched filters monochromatic radiation nonlinear filters radar filters radar filters radio filters reduced order filters separators spatial filtering filtering filtering filteration  | finenes RT  finenes DEF maximu mensior airship f GS | fines  ucture  multiplets alpha decay atomic structure ine hyperfine structure line spectra spectral energy distribution structures  s  coarseness ine fine fineness ratio particle size distribution purity quality size (dimensions) textures  s ratio  The ratio of the length of a body to its m diameter or to some equivalent diameter or some equivalent dia | GS<br>RT<br><b>finite d</b><br>(add<br>UF | numerical analysis approximation finite difference theory finite difference time domain method Crank-Nicholson method difference equations differences essentially non-oscillatory schemes extrapolation flux difference splitting flux vector splitting Godunov method grid generation (mathematics) interpolation multigrid methods perfectly matched layers significance theories time marching TVD schemes upwind schemes (mathematics) vortex in cell technique ded April 1999) FDTD (mathematics) analysis (mathematics) numerical analysis approximation finite difference time domain method time domain analysis finite difference time domain   |
| SN<br>RT<br>UF  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) absorbers (materials) adaptive filters air filters attenuators bandpass filters bandstop filters birefringent filters crystal filters digital filters electric filters electronic filters filter wheel infrared spectrometers FIR filters fluid filters Gabor filters high pass filters image filters kalman filters low pass filters matched filters monochromatic radiation nonlinear filters radar filters reduced order filters separators spatial filtering tunable filters  | finenes RT  finenes DEF maximu mensior airship f GS | fines  ducture  multiplets alpha decay atomic structure ine hyperfine structure line spectra spectral energy distribution structures  s  coarseness fine fineness ratio particle size distribution purity quality size (dimensions) textures  s ratio  The ratio of the length of a body to its m diameter or to some equivalent dialers aid especially of a body such as an null or rocket. ratios . aspect ratio . fineness ratio dimensional analysis dimensions offine fineness  | GS<br>RT<br><b>finite d</b><br>(add<br>UF | numerical analysis approximation finite difference theory finite difference time domain method Crank-Nicholson method difference equations differences essentially non-oscillatory schemes extrapolation flux difference splitting flux vector splitting Godunov method grid generation (mathematics) interpolation multigrid methods perfectly matched layers significance theories time marching TVD schemes upwind schemes (mathematics) vortex in cell technique ifference time domain method ded April 1999) FDTD (mathematics) analysis (mathematics) . numerical analysis . approximation . finite difference time domain method time domain analysis  |

| electromagnetic scattering                                     | UF vertical fins   | soot  |
|--|--|---|
| finite element method  | GS fins  | fire extinguishers  |
| finite element method  UF hybrid-Trefftz finite element method | . cooling fins<br>. nose fins                              | UF chemical extinguishers                                       |
| GS analysis (mathematics)                                      | RT aerial rudders  | extinguishers   |
| . numerical analysis   | airfoils   | RT fire fighting  |
| approximation  | airframes  | fire prevention   |
| finite element method  | ∞ blades   | firebreaks  |
| procedures   | control surfaces   | fires<br>flammability   |
| . finite element method<br>RT ∞ applications of mathematics    | finned bodies<br>hydrofoils                                | foams   |
| boundary value problems  | missile components   | halon   |
| Cholesky factorization   | rudders  |   |
| computational fluid dynamics                                   | sails  | fire fighting   |
| conjugates   | stabilizers (fluid dynamics)                               | SN (EXCLUDES FIRE CONTROL-CONTROL OF THE FIRING OF WEAPONS)     |
| Crank-Nicholson method   | tail assemblies  | RT breathing apparatus  |
| factorization<br>fracture mechanics                            | vanes<br>winglets  | fire extinguishers  |
| grid generation (mathematics)                                  | Williglets   | fire prevention   |
| isoparametric finite elements                                  | fiords   | firebreaks<br>fires   |
| iterative solution   | DEF Arms of the sea having steep sides,                    |   |
| matrices (mathematics)   | deep bottoms, and shallow sills separating them            |   |
| ∞ methodology  | from the sea.  |   |
| Mindlin plates   | GS landforms   | fire point  |
| minimal surfaces<br>multigrid methods                          | . f <b>iords</b><br>RT cliffs                              | RT flammability   |
| NASTRAN  | RT cliffs<br>geology                                       | flash point spontaneous combustion                              |
| panel method (fluid dynamics)                                  | inlets (topography)  | spontaneous compustion  |
| patch tests  | Norway   | fire prevention   |
| perfectly matched layers                                       | oceanography   | SN (EXCLUDES FIRE CONTROLCONTROL                                |
| shape functions  | water  | ÒF THE FIRING OF WEAPONS) GS prevention                         |
| solid mechanics  |  | . fire prevention   |
| Trefftz method<br>unstructured grids (mathematics)             | FIR filters  | RT accident prevention  |
| unstructured grids (matricinatios)                             | DEF Physically unrealizable nonrecursive                   | explosion suppression   |
| finite impulse response filters                                | digital filters. Used for finite impulse response filters. | ille extiliguistiers  |
| USE FIR filters  | UF finite impulse response filters                         | fire fighting   |
|  | GS electromagnetic wave filters                            | firebreaks<br>fireproofing                                      |
| finite volume method   | . electric filters   | fires   |
| DEF A moving mesh method for analyzing                         | digital filters  | flame retardants  |
| transonic flow over airfoils.  GS analysis (mathematics)       | FIR filters  | forest fires  |
| . numerical analysis   | RT bandpass filters electronic filters                     | high pressure oxygen  |
| finite volume method   | ∞ filters  | safety  |
| Godunov method   | IIR filters  | safety devices  |
| procedures   | microwave filters  | safety management<br>smoke detectors                            |
| finite volume method   | radar filters  | spontaneous combustion  |
| Godunov method   | recursive functions  | warning   |
| RT boundary value problems  ∞ methodology                      |  | warning systems   |
| TVD schemes  | FIRE (climatology)   |   |
| unstructured grids (mathematics)                               | (added August 1991) UF First ISCCP Regional Experiment     | fire resistance   |
| ,  | GS programs  | USE flammability  |
| finite-state machines  | . projects   | fire retardants   |
| USE Turing machines  | . FIRE (climatology)                                       | USE flame retardants  |
| <b>-</b>   | RT climatology   |   |
| Finland GS nations   | cloud cover  | ∞ fireballs   |
| GS nations<br>. <b>Finland</b>                                 | clouds (meteorology)                                       | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
| RT Europe  | remote sensing satellite observation                       | LISTED BELOW)   |
| Finnish space program  | Satellite Observation                                      | RT bolides  |
| Scandinavia  | fire control   | nuclear explosions  |
|  | SN (LIMITED TO CONTROL OF THE FIRING                       | Firebee 2 target drone aircraft                                 |
| finned bodies  | OF WEAPONSEXCLUDES FIRE                                    | GS drone vehicles   |
| RT aerodynamic configurations<br>∞ bodies                      | PREVENTION AND FIRE FIGHTING) RT bombing equipment         | . drone aircraft  |
| bodies of revolution   | ∞ control  | target drone aircraft   |
| cooling fins   | firing (igniting)  | Firebee 2 target drone aircraft light aircraft                  |
| fins   | gunfire  | Firebee 2 target drone aircraft                                 |
| heat exchangers  | gunnery training   | pilotless aircraft  |
| missile bodies   | range finders  | . drone aircraft  |
| nose fins  | weapon systems<br>weapons                                  | target drone aircraft   |
| projectiles<br>symmetrical bodies                              | Wodpono  | Firebee 2 target drone aircraft                                 |
| Symmetrical bodies   | fire control circuits                                      | research vehicles   |
| Finnish space program  | GS circuits  | . research aircraft Firebee 2 target drone aircraft             |
| (added November 1990)  | . fire control circuits                                    | Ryan aircraft   |
| GS programs  | RT ∞ control   | . Firebee 2 target drone aircraft                               |
| . space programs   |  | supersonic aircraft   |
| European space programs  | fire damage  | . Firebee 2 target drone aircraft                               |
| Finnish space program  | GS damage  | RT ∞ aircraft   |
| RT Finland   | . f <b>ire damage</b><br>RT ashes                          | ∞ military aircraft   |
| fins   | RT ashes charring  | targets<br>∞ winged vehicles                                    |
| DEF Fixed or adjustable airfoils or vanes                      | combustion   | Willyeu Verlicies   |
| attached longitudinally to an aircraft, rocket, or a           | fires  | firebreaks  |
| similar body to provide a stabilizing effect. Also,            | flames   | GS clearings (openings)   |
| a flat plate of structure, as a cooling fin. Used for          | fumes  | firebreaks  |
| vertical fins.   | smoke  | RT combustion   |

|                | conservation  |                 | starting  |            | squama   |
|----------------|---|-----------------|---|------------|--|
|                | fire extinguishers  |                 |   |            | wildlife   |
|                | fire fighting fire prevention   | firing tin      | ne<br>burning time  | fishing    |  |
|                | fires   | 002             | Saming anno   |            | ed November 1992)  |
|                | flames  | firmwar<br>DEF  | e Hardwired software which often en-  | RT         | fisheries  |
|                | forest fires<br>forests   |                 | ses microcodes.   |            | fishes industries  |
|                |   | ŔŦ              | computer components   |            | schools (fish)   |
| fireflies      |   | ~               | computer programming<br>∘ hardware  | fishtailin | ng.  |
| DEF            | Flying insects which produce light by   |                 | microprocessors   |            | yaw  |
| biolumin<br>GS | escence.<br>animals   |                 | microprogramming  | fissile f  | · ·  |
| 00             | . invertebrates   |                 | RISC processors   | GS         | fissionable materials  |
|                | arthropods  | first aid       |   |            | . fissile fuels  |
|                | insects<br>fireflies  | RT              | accidents<br>chemical defense   |            | fuels<br>. nuclear fuels   |
|                |   |                 | cures   |            | fissile fuels  |
| fireproc       | ofing   |                 | disasters   | RT         | fissium  |
| RT             | fire prevention   |                 | kits<br>medical equipment   |            | gaseous fission reactors nuclear fission                                     |
|                | nonflammable materials safety   |                 | medical science   |            | nuclear reactors   |
|                |   |                 | medical services resuscitation  |            | radioactive materials  |
| fires          |   |                 | splints   | fissile m  | naterials  |
| GS             | fires   |                 | stretchers  | USE        | fissionable materials  |
| RT             | . forest fires accidents  |                 | tourniquets<br>transfusion  | fission    |  |
| 101            | backfire  |                 | แลกรณรเบา   | DEF        | The splitting of an atomic nucleus into                                      |
|                | burns (injuries)  |                 | CCP Regional Experiment   |            | re-or-less equal fragments.  |
|                | combustion<br>control surfaces  | USE             | FIRE (climatology)  | RT         | blankets (fission reactors) fuel production                                  |
|                | deflagration  |                 | -Tropsch process  |            | nuclear fuels  |
|                | explosions  | RT              | catalysis catalytic activity  |            | splitting  |
|                | explosives fire damage  |                 | reaction kinetics   | fission    | electric cells   |
|                | fire extinguishers  |                 | synthesis (chemistry)   | GS         | auxiliary power sources  |
|                | fire fighting fire prevention   |                 | synthetic fuels   |            | . nuclear auxiliary power units SNAP   |
|                | firebreaks  | fish            |   |            | fission electric cells   |
|                | firing (igniting)   | USE             | fishes  |            | SNAP 2   |
|                | flames<br>flashback   | Fishboy         | wl Operation  |            | SNAP 4<br>SNAP 8   |
|                | hazards   | RT              | high altitude tests   |            | SNAP 10A   |
|                | safety  | ~               | nuclear explosions<br>operations  |            | space power reactors fission electric cells                                  |
|                | Saint Elmo fire smoldering  |                 | Vela satellites   |            | SNAP 2   |
|                | warning systems   |                 |   |            | SNAP 4   |
|                |   |                 | information<br>ed March 2004)   |            | SNAP 8<br>SNAP 10A   |
|                | s (computers)   | DEF             | A fundamental quantity in statistical   |            | nuclear electric power generation  |
|                | ed January 2003)  Computers, routers, and/or communi-                           |                 | e that describes an attribute or property tribution with known form but uncertain |            | . nuclear auxiliary power units SNAP   |
| cations        | devices that filter access to a protected                                       |                 | ter values.   |            | fission electric cells   |
|                | . They may also consist of a collabora-   | RT              | Cramer-Rao bounds   |            | SNAP 2   |
|                | uch components geared toward protect-<br>vorks from intrusion from the Internet |                 | expectation information theory  |            | SNAP 4<br>SNAP 8   |
| while all      | owing users inside the network access   |                 | likelihood ratio  |            | SNAP 10A   |
| to service     | ces on the Internet, such as Web and  | e - L i -       | _   |            | space power reactors   |
|                | security  | fisherie<br>DEF | Place for harvesting fish or other  |            | fission electric cells<br>SNAP 2   |
|                | . computer security   | aquatic         | life, especially in sea waters.   |            | SNAP 4   |
| RT             | firewalls (computers) access control  | RT              | aquiculture<br>estuaries  |            | SNAP 8<br>SNAP 10A   |
|                | computer information security   |                 | fishes  |            | . nuclear power reactors   |
|                | computer networks<br>computer systems design                                    |                 | fishing   |            | space power reactors   |
|                | intrusion detection (computers)   |                 | marine biology marine resources   |            | fission electric cells<br>SNAP 2   |
|                |   |                 | sea water   |            | SNAP 4   |
| firework       |   |                 | shallow water tidal flats   |            | SNAP 8<br>SNAP 10A   |
| USE            | pyrotechnics  |                 | wetlands  |            | nuclear reactors   |
|                |   |                 |   |            | . nuclear power reactors   |
| firing (i      | gniting)<br>firing (igniting)   | fishes<br>UF    | fish  |            | space power reactors fission electric cells                                  |
|                | . rocket firing   | GS              | animals   |            | SNAP 2   |
|                | . retrofiring   |                 | . vertebrates fishes  |            | SNAP 4<br>SNAP 8   |
|                | . test firing static firing   |                 | schools (fish)  |            | SNAP 8   |
| RT             | burning time  |                 | sharks  | RT ∝       | o electric cells   |
|                | detonable gas mixtures detonation   | RT              | aquiculture Earth resources   |            | radioisotope batteries space power unit reactors                             |
|                | drying  |                 | fisheries   |            | opaso portor armi reductora  |
|                | fire control  |                 | fishing   |            | products The large variety of smaller stame                                  |
|                | fires<br>flammable gases  | ٥               | ∘ food<br>ichthyology   |            | The large variety of smaller atoms, g cesium and strontium, left over by the |
|                | gunfire   | ۰               | o nutrients   | splitting  | of uranium and plutonium, usually  |
|                | ignition pulsejet engines   |                 | poikilothermia red tide   |            | by the absorption of a neutron.  products                                    |
|                | haiseler etilities  |                 | red tide  | GS         | products   |

. fission products unions (connectors) metal powder chain reactions (nuclear physics) powder (particles) Fitzgerald-Lorentz contraction USE Lorentz contraction high energy interactions flaking nuclear fission RT atomizing nuclear particles chipping USE fixing nuclear pumping comminution nuclear radiation cutting fixed point arithmetic radioactive materials disintegration GS number theory flakes radioactive wastes . arithmetic fracturing radioactivity . fixed point arithmetic peeling computer programs separation computers spalling fission weapons data processing splitting atomic bombs GS wear weapons **fixed points (mathematics)**DEF Positional notation in which corre-. nuclear weapons flame calorimeters . fission weapons sponding places in different quantities are occu-GS measuring instruments fallout pied by coefficients of the same power of the . calorimeters nuclear devices base. Notation in which the base point is as-. . flame calorimeters thermonuclear explosions sumed to remain fixed with respect to one end of bomb calorimeters the numeric expressions. drop calorimeters GS geometry heat measurement fissionable materials Euclidean geometry high temperature tests DEF Materials containing nuclides capable . . points (mathematics) temperature measuring instruments of undergoing fission only by fast neutrons with . . fixed points (mathematics) energy greater than 1MeV, e.g., thorium-232 . topology flame deflectors and uranium-238. Used for fissile materials. fixed points (mathematics) In a vertical launch, any of variously fissile materials manifolds (mathematics) designed obstructions that intercept hot gases GS fissionable materials mapping of rocket engines so as to deflect them away . fissile fuels from the ground or from a structure. In captive gaseous fission reactors fixed wings tests, elbows in the exhaust conduits or flame ∞ materials buckets that deflect the flame into the open. UF fixed-wing aircraft nozzle flow GS airfoils GS deflectors nuclear fuels . wings flame deflectors plutonium . fixed wings backfire RT radioactive materials RT cambered wings baffles uranium cruciform wings blast deflectors flexible wings diverters flashback low aspect ratio wings fissium rigid wings launching pads GS fuels slender wings safety devices . nuclear fuels swept wings shielding fissium thin wings test stands RT fissile fuels twisted wings uncambered wings flame fronts unswept wings USE flame propagation fissures (geology) Extensive cracks in rocks. fixed-wing aircraft flame holders folds (geology) aircraft configurations USE GS holders geological faults fixed wings . flame holders structural properties (geology) combustion chambers tectonics ∞ fixing dump combustors (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN flameout flames LISTED BELOW) fitness UF GS fitness flame interaction RT maintenance flight fitness chemical reactions USE navigation physical fitness flame propagation position (location) RT qualifications positioning flame ionization GS ionization fixtures fitting . gas ionization RT brackets adaptation . . flame ionization RT  $\infty$  hardware adjusting iias alignment flame plating luminaires assembling GS plating tools fittings flame plating goodness of fit RT coating Fizeau effect interference fit welding Doppler effect ∞ joining Doppler-Fizeau effect matching ∞ effects flame probes positioning measuring instruments . flame probes Flagellata GS animals gas analysis fittings . protozoa manometers temperature measuring instruments accessories . Flagellata . . . Euglena adapters . . trypanosome closures flame propagation Chapman-Jouget flame connectors microorganisms combustion waves couplings . protozoa extensions . . Flagellata flame fronts fasteners . . . Euglena flame interaction fitting propagation (extension) . . . trypanosome GS flame propagation inserts joints (junctions) backfire flakes boundary layer combustion linkages particles GS flakes

RT

flaking

burning rate

combustible flow

sleeves

U bends

|         | combustion                       |          | ngines resultiing in the loss of engine       |          | . ailerons  |
|---------|----------------------------------|----------|---|----------|---|
|         | combustion physics               | power.   |   |          | flaperons   |
|         | Damkohler number                 | UF       | blowoff (combustion)                          |          | . flaps (control surfaces)                        |
|         | detenation                       | GS       | extinguishing                                 |          | flaperons   |
|         | detonation waves                 | RT       | . flameout combustion                         |          | control surfaces . ailerons                       |
|         | explosions<br>flames             | IXI      | combustion chambers                           |          | flaperons   |
|         | flammability                     |          | flame holders                                 |          | . flaps (control surfaces)                        |
|         | flashback                        |          | flame stability                               |          | flaperons   |
|         | gas explosions                   |          | gas turbine engines                           | RT       | aerodynamic brakes                                |
|         | gas-metal interactions           |          | jet engines                                   |          |   |
|         | ignition                         |          | , ,   | flappin  | a   |
|         | premixed flames                  | flames   |   | RT       | airfoil oscillations                              |
|         | pressure oscillations            | UF       | jet flames                                    |          | flutter   |
|         | pressure pulses                  |          | laminar flames                                |          | resonant vibration                                |
| 0       | propagation                      | GS       | flames  |          | rotor aerodynamics                                |
|         | reacting flow                    |          | . diffusion flames                            |          | shaking   |
|         | turbulent combustion             |          | . premixed flames                             |          | undamped oscillations                             |
|         | turbulent flames                 | ОТ       | . turbulent flames                            |          | vibration   |
| a       |                                  | RT       | combustion<br>fire damage                     |          | wing oscillations                                 |
|         | uenching                         |          | fire damage<br>firebreaks                     |          |   |
| USE     | extinguishing                    |          | fires   |          | g hinges  |
|         | quenching (cooling)              |          | flame holders                                 | GS       | hinges  |
| flama r | etardants                        |          | flame propagation                             | БТ       | flapping hinges                                   |
| UF      | fire retardants                  |          | ∞ flares                                      | RT       | rotary wings                                      |
| GS      | retardants                       |          | forest fires                                  |          | rotor aerodynamics                                |
| GS      | . flame retardants               |          | fuels   | £1 (     |   |
| RT      | antimisting fuels                |          | smog  |          | control surfaces)                                 |
|         | fabrics                          |          | turbulent combustion                          | UF       | •   |
|         | fire prevention                  |          |   | GS       | airfoils  |
|         | flammability                     | flamma   |   |          | . flaps (control surfaces) externally blown flaps |
|         | halon                            | DEF      | Those characteristics of a material that      |          | upper surface blown flaps                         |
|         | ignition limits                  |          | to its relative ease of ignition and relative |          | flaperons   |
|         | inorganic compounds              |          | o sustain combustion. Used for combus-        |          | jet flaps   |
|         | polybrominated biphenyls         |          | and fire resistance.                          |          | split flaps                                       |
|         | synthetic fibers                 | UF       | combustibility                                |          | wing flaps  |
|         |                                  |          | fire resistance                               |          | leading edge flaps                                |
| flame s | pectroscopy                      | RT       | burning rate                                  |          | leading edge slats                                |
| GS      | spectroscopy                     |          | combustion                                    |          | trailing edge flaps                               |
|         | . flame spectroscopy             |          | detonable gas mixtures                        |          | vortex flaps                                      |
|         | spectrum analysis                |          | fire extinguishers<br>fire fighting           |          | control surfaces                                  |
|         | flame spectroscopy               |          | fire point                                    |          | . flaps (control surfaces)                        |
| RT      | emission spectra                 |          | flame propagation                             |          | externally blown flaps                            |
|         | gas spectroscopy                 |          | flame retardants                              |          | upper surface blown flaps                         |
|         | line spectra                     |          | flammable gases                               |          | flaperons   |
|         | optogalvanic spectroscopy        |          | flash point                                   |          | jet flaps   |
|         | qualitative analysis             |          | ignition                                      |          | split flaps                                       |
|         | spectroscopic analysis           |          | ignition limits                               |          | wing flaps  |
| flamos  | praying                          |          | ignition temperature                          |          | leading edge flaps                                |
| GS      | spraying                         |          | pyrophoric materials                          |          | leading edge slats                                |
| GS      | . flame spraying                 |          | ∞ resistance                                  |          | trailing edge flaps                               |
|         | HVOF thermal spraying            |          | smoldering                                    | RT       | vortex flaps aerodynamic brakes                   |
| RT      | coating                          |          | spontaneous combustion                        | KI       | brakes (for arresting motion)                     |
|         | coatings                         |          |   |          | ∞ control   |
|         | metal spraying                   |          | able gases                                    | ,        | drag devices                                      |
|         | metallizing                      | UF       | explosive gases                               |          | GAW-2 airfoil                                     |
|         | plasma spraying                  | GS       | gases   |          | lift devices                                      |
|         | 1 3                              |          | flammable gases                               |          | spoilers  |
| flame s | tability                         |          | gaseous fuels                                 |          | ∞ surfaces  |
| GS      | dynamic characteristics          |          | natural gas                                   |          |   |
|         | . dynamic stability              |          | liquefied natural gas liquefied natural gas   | flare st | tars  |
|         | combustion stability             |          | pyrogen                                       | DEF      | Members of a class of dwarf stars that            |
|         | flame stability                  | RT       | chemical explosions                           | show s   | sudden intensive outbursts of energy.             |
|         | motion stability                 | 17.1     | detonable gas mixtures                        | Used for | or UV Ceti stars.                                 |
|         | flow stability                   |          | explosives                                    | UF       | UV Ceti stars                                     |
|         | flame stability                  |          | firing (igniting)                             | GS       | celestial bodies                                  |
|         | . flow characteristics           |          | flammability                                  |          | . stars   |
|         | flow stability                   |          | gas explosions                                |          | late stars  |
|         | flame stability                  |          | hazards                                       |          | cool stars  |
|         | stability                        |          |   |          | flare stars                                       |
|         | . dynamic stability              | flange   | wrinkling                                     |          | main sequence stars                               |
|         | combustion stability             | GS       | wrinkling                                     |          | dwarf stars                                       |
|         | flame stability motion stability |          | . flange wrinkling                            |          | flare stars                                       |
|         |                                  | RT       | buckling                                      |          | variable stars                                    |
|         | flow stability flame stability   |          |   | DT       | flare stars                                       |
| RT      | flameout                         | flanges  |   | RT       | cataclysmic variables                             |
| 13.1    | turbulent flames                 | RT       | connectors                                    |          | M stars   |
|         | tarbatorit names                 |          | metal plates                                  |          | solar flares                                      |
| flama 4 | emperature                       | flan -   | ntrol   |          | stellar activity<br>stellar flares                |
| GS      | temperature<br>temperature       | flap coi |   |          | symbiotic stars                                   |
| 00      | . flame temperature              | USE      | aircraft control flaps (control surfaces)     |          | Symbolic stats                                    |
| RT      | combustion chemistry             |          | naps (control surfaces)                       | flared   | hodies  |
|         | combustion temperature           | flapero  | ons   | RT       | afterbodies                                       |
|         | (                                |          | Airplane control surfaces that serve          | 17.1     | aircraft configurations                           |
| flameo  | ut                               |          | ction of both aileron and flap.               |          | ∞ flares  |
|         |                                  |          | •   |          |   |

GS airfoils

flameout DEF Unintended loss of combustion in tur-

spacecraft configurations

 $\infty$ 

|           | symmetrical bodies   |           | evaporation                             | 0         | o surfaces   |
|-----------|--|-----------|---|-----------|--|
| flares    |  |           | ∞ flash                                 | flatness  |  |
| SN        | (USE OF A MORE SPECIFIC TERM IS                                  |           | prevaporization<br>∞ separation         |           | shapes   |
|           | RECOMMENDEDCONSULT THE TERMS                                     |           |   |           | flatness   |
| RT        | LISTED BELOW) flames   | flashov   | rer                                     | RT        | concavity  |
|           | flared bodies  | GS        | electric current                        |           | contours   |
|           | illuminating   |           | . electric discharges                   |           | convexity  |
|           | lighting equipment   | RT        | flashover                               |           | etalons<br>flat layers   |
|           | luminaires   | KI        | electric arcs<br>electric sparks        |           | flat plates  |
|           | pyrotechnics   |           | electric sparks<br>electrical faults    |           | flat surfaces  |
|           | runway lights<br>solar flares                                    |           | failure                                 |           | flattening   |
|           | Solar Maximum Mission  |           |   |           | interferometers  |
|           | solar terrestrial interactions                                   | flasks    |   |           | mechanical properties  |
|           | stellar activity   | RT        | bottles                                 |           | planar structures  |
|           | stellar flares   |           | glassware                               | ~         | roughness<br>surface geometry  |
| flash     |  | flat coa  | xial transmission lines                 | _         | Surface geometry   |
| SN        | (USE OF A MORE SPECIFIC TERM IS                                  | USE       | microstrip transmission lines           | flats (la | ndforms)   |
|           | (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDED CONSULT THE TERMS |           | ,                                       |           | A general term for level or nearly level   |
| UF        | LISTED BELOW) light duration                                     | flat cor  | nductors                                |           | s or small areas of land marked by little  |
| RT        | electric discharges  | GS        | conductors                              |           | elief such as plains. Also, nearly level   |
|           | explosions   |           | flat conductors                         |           | that visibly display lower relief than their dings. Used for adobe flats and salt flats. |
|           | flash welding  | DT        | beam leads                              |           | adobe flats  |
|           | flashing (vaporizing)  | RT        | bus conductors<br>circuits              |           | salt flats   |
|           | light (visible radiation)  |           | connectors                              | GS        | landforms  |
|           | radiography<br>solar flares                                      |           | electric connectors                     |           | . flats (landforms)  |
|           | solal liales   |           | electric contacts                       |           | tidal flats  |
| flash bl  | indness  |           | electric wire                           | RT        | Earth resources  |
|           | blindness  |           | wire                                    |           | marshlands   |
|           | . flash blindness  |           | wiring                                  |           | mesas<br>plains  |
| RT        | eye protection   |           |   |           | salt beds  |
|           | light adaptation   | flat lay  |   |           | Sait Deus  |
|           | vision   | RT        | flatness                                | flattenii | ng   |
| flash la  | mne  |           | ∞ layers                                | RT        | ductility  |
| UF        | flash tubes  |           | planar structures<br>strata             |           | ellipticity  |
|           | lighting equipment   |           | stratification                          |           | flatness   |
|           | . luminaires   |           | Stratification                          |           | leveling   |
|           | flash lamps  | flat par  | nel displays                            |           | metal working  |
|           | alkali vapor lamps   |           | ed September 1994)                      |           | oblate spheroids   |
| RT        | light sources  | ĠS        | display devices                         | 0         | orolling smoothing   |
|           | xenon lamps  |           | . flat panel displays                   |           | Sillouthing  |
| Cl = =    | -14  | RT        | avionics                                | flatwori  | ms   |
| flash po  | The temperature at which a substance,                            |           | consoles                                | GS        | animals  |
| SUCh as   | fuel oil, will give off a vapor that will flash                  |           | human factors engineering               |           | . invertebrates  |
|           | momentarily when ignited.  |           | imaging techniques                      |           | worms  |
| GS        | temperature  |           | indicating instruments                  | 5.7       | flatworms  |
|           | . ignition temperature   | flat pat  | terns                                   | RT        | infestation  |
|           | flash point  | DEF       | Shape of a part or parts put in 3 space | flavor (  | particle physics)  |
| RT        | combustion temperature   | in its ur | ndefined condition.                     |           | The specific identifiers of quarks which   |
|           | fire point   | RT        | castings                                |           | ish various combinations of electric   |
|           | flammability   |           | molds                                   | . •       | and mass.  |
|           | ignition spontaneous combustion                                  |           |   |           | hadrons  |
|           | vapor pressure   | flat pla  |   |           | particle interactions  |
|           | volatility   | GS        | structural members                      |           | particle theory  |
|           | ,  |           | . plates (structural members)           | 0         | o physics  |
| flash tub |  | RT        | flat plates<br>annular plates           |           | quantum theory   |
| USE       | flash lamps  | 13.1      | Blasius equation                        |           | quark models<br>quarks   |
| flash w   | eldina   |           | Blasius flow                            |           | theoretical physics  |
|           | welding  |           | circular plates                         |           |  |
|           | . fusion welding   |           | dynamic structural analysis             | flaw det  | tection  |
|           | electric welding   |           | end plates                              | USE       | nondestructive tests   |
|           | flash welding  |           | flatness                                | _         |  |
| RT ∝      | oflash   |           | fluid mechanics<br>heat transfer        | flaws     | defeate  |
|           | pressure welding   |           | metal plates                            | USE       | defects  |
| flashba   | al.  |           | panels                                  | floot ha  | Illistic missiles  |
| DEF       |  |           | parallel plates                         | UF        |  |
|           | ourner or torch.   |           | planar structures                       | GS        | missiles   |
| RT        | backfire   |           | plate theory                            |           | . surface to surface missiles  |
|           | combustion   |           | ∞ plates                                |           | fleet ballistic missiles   |
|           | deflagration   |           | rectangular plates                      |           | Polaris A1 missile   |
|           | explosions   |           | ∞ sheets                                |           | Polaris A2 missile   |
|           | fires  |           | slabs                                   |           | Polaris A3 missile   |
|           | flame deflectors   |           | thick plates<br>thin plates             |           | Poseidon missiles  |
|           | flame propagation  |           | ιιιιι ριαισο                            | RT        | Subroc missile ballistic missile submarines  |
| flashing  | g (vaporizing)   | flat sur  | faces                                   | ΚI        | guided missile submarines  |
|           | The evaporation of a heated liquid as a                          | UF        | facets                                  |           | intercontinental ballistic missiles  |
|           | uence of rapid pressure reduction.                               | RT        | Cosserat surfaces                       |           | intermediate range ballistic missiles  |
|           | phase transformations  | •         | flatness                                |           | sea launching  |
|           | . vaporizing   |           | planar structures                       |           | <u> </u>   |
|           | . flashing (vaporizing)  |           | surface geometry                        |           | atellite Communication System  |
| RT        | distillation   |           | surface properties                      | DEF       | Global communication system utilizing  |

| SATCOM.   | XV-8A aircraft   | space flight   |
|---|--|--|
| UF Fleetsatcom  | flexing  | steering<br>suborbital flight  |
| Fltsatcom   | UF flexure   | supersonic flight  |
| GS telecommunication  | RT bending   | trajectories   |
| . Defense Communications Satellite  | camber   | transition flight  |
| System Fleet Satellite Communication  | ∞ chambers<br>curvature  | transoceanic flight<br>transonic flight  |
| System  | deflection   | turning flight   |
| RT communication satellites   | deformation  | vertical flight  |
| Marisat satellites  | distortion<br>flexibility  | visual flight  |
| microwave transmission<br>military technology   | flexiblity   | flight altitude  |
| NASCOM network  | folding  | GS altitude  |
| navy  | heaving  | . flight altitude  |
| radio communication   | loading moments  | RT air traffic control ceiling (aircraft capability)   |
| ∞ systems<br>ultrahigh frequencies  | flexors  | ∞ flight   |
| anangn nequences  | GS anatomy   | midaltitude  |
| Fleetsatcom   | . musculoskeletal system<br>muscles  | Mark and a second of the second  |
| USE Fleet Satellite Communication   | flexors  | flight characteristics  DEF Characteristics exhibited by an aircraft,  |
| System  | RT joints (anatomy)  | rocket, or the like in flight, such as a tendency to   |
| Alandia III.  | 51   | stall or to yaw, or an ability to remain stable at   |
| flexibility  DEF That property of a material by virtue of   | Flexowriters (trademark) USE automatic typewriters   | certain speeds. Used for flight performance and  |
| which it may be bowed repeatedly without un-  |  | flying qualities. UF flight performance  |
| dergoing rupture. That property of a material by  |  | flying qualities   |
| virtue of which it may be flexed or bowed   |  | GS flight characteristics  |
| repeatedly without undergoing rupture. Used for<br>nonrigidity.   | can withstand without fracturing - it's resistance   | . flight envelopes   |
| UF nonrigidity  | to fracture.   | . pilot ratings<br>Cooper-Harper ratings   |
| GS mechanical properties  | UF bending strength  | RT aerodynamics  |
| . flexibility   | GS mechanical properties   | aircraft maneuvers   |
| RT bending elastic properties   | . fracture strength flexural strength  | aircraft performance   |
| flexing   | RT bend tests  | aircraft specifications<br>airspeed  |
| nonuniformity   | bending fatigue  | buffeting  |
| plastic properties  | static loads   | ceiling (aircraft capability)  |
| ∞ rigidity<br>softness  | ∞ strength   | ∞ characteristics  |
| stiffness   | flexure  | controllability<br>flight control  |
| versatility   | USE <b>flexing</b>   | flutter  |
|   | flicker  | helicopter performance   |
| flexible bodies   | RT critical flicker fusion   | highly maneuverable aircraft   |
| GS flexible bodies  | light transmission   | in-flight simulation<br>low speed stability  |
| . flexible spacecraft<br>RT ∞ bodies  | file land from the form was a second   | maneuverability  |
| hybrid structures   | flicker fusion frequency USE critical flicker fusion   | ∞ performance  |
| inflatable structures   | 002 000  | quality  |
|   | ∞ flight   | flight clothing  |
|   |  |  |
| flexible spacecraft  DEF Space vehicles (usually space struc-   | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS   | GS clothing  |
| DEF Space vehicles (usually space struc-  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   | GS clothing<br>. f <b>light clothing</b>   |
| DEF Space vehicles (usually space struc-<br>tures or rotating satellites) whose surfaces<br>and/or appendages may be subject to elastic   | DEF The movement of an object through  | GS clothing<br>. f <b>light clothing</b><br>RT coveralls   |
| DEF Space vehicles (usually space struc-<br>tures or rotating satellites) whose surfaces<br>and/or appendages may be subject to elastic<br>flexural deformations (vibrations).  | LISTED BELOW)  DEF The movement of an object through   | GS clothing . f <b>light clothing</b> RT coveralls garments  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles  | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a  | GS clothing<br>. f <b>light clothing</b><br>RT coveralls   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft  | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles  | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or  | GS clothing . flight clothing RT coveralls garments goggles helmets  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft RT artificial satellites   | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft RT artificial satellites displacement elastic deformation  | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control  | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite orientation  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight  high speed flight  RT aerodynamics  aeronautics  balloon flight  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft RT artificial satellites displacement elastic deformation flexing large space structures satellite orientation satellite rotation  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics balloon flight climbing flight   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft RT artificial satellites displacement elastic deformation flexing large space structures satellite control satellite orientation satellite rotation shape control ∞ spacecraft   | LISTED BELOW)  DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics  balloon flight climbing flight coasting flight   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control  spacecraft spacecraft spacecraft control   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics balloon flight climbing flight   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft RT artificial satellites displacement elastic deformation flexing large space structures satellite control satellite orientation satellite rotation shape control  ∞ spacecraft spacecraft control spacecraft tontrol spacecraft motion  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics balloon flight climbing flight cruising flight flight altitude flight altitude flight control  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control  spacecraft spacecraft spacecraft control   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying high altitude flight high speed flight RT aerodynamics aeronautics balloon flight climbing flight cruising flight flight altitude flight titude flight control flight mechanics   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology)  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics  balloon flight climbing flight coasting flight flight altitude flight control flight mechanics flight optimization  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite orientation satellite orientation satellite rotation shape control  spacecraft spacecraft spacecraft motion structural vibration vibration damping  flexible wings   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight  high speed flight  RT aerodynamics  aeronautics  balloon flight  climbing flight  coasting flight  cruising flight  flight altitude  flight control  flight mechanics  flight optimization  flight paths  flight safety  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology)  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control ∞ spacecraft spacecraft spacecraft control spacecraft control spacecraft motion structural vibration vibration damping  flexible wings  UF Rogallo wings  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight  RT aerodynamics  aeronautics balloon flight climbing flight cruising flight cruising flight flight altitude flight titude flight mechanics flight optimization flight paths flight safety flight tests   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft  RT artificial satellites displacement elastic deformation flexing large space structures satellite control satellite orientation satellite rotation satellite rotation shape control ∞ spacecraft spacecraft control spacecraft control spacecraft motion structural vibration vibration damping  flexible wings UF Rogallo wings GS airfoils   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying high altitude flight high speed flight  RT aerodynamics  ∞ aeronautics  balloon flight climbing flight cruising flight flight altitude flight control flight mechanics flight optimization flight safety flight sefty flight tests flight time  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control ∞ spacecraft spacecraft spacecraft control spacecraft control spacecraft motion structural vibration vibration damping  flexible wings  UF Rogallo wings  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight  RT aerodynamics  aeronautics balloon flight climbing flight cruising flight cruising flight flight altitude flight titude flight mechanics flight optimization flight paths flight safety flight tests   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control ∞ spacecraft spacecraf | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics balloon flight climbing flight cruising flight cruising flight flight altitude flight tontrol flight mechanics flight optimization flight paths flight safety flight tests flight time formation flying free flight gliding  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control . automatic flight control . automatic landing control . fly by light control  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control  ∞ spacecraft spacecraft spacecraft motion structural vibration vibration damping  flexible wings UF Rogallo wings GS airfoils . wings . flexible wings RT fixed wings RT fixed wings   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying high altitude flight high speed flight  RT aerodynamics aeronautics balloon flight climbing flight cruising flight cruising flight flight altitude flight tontrol flight mechanics flight optimization flight safety flight tests flight time formation flying free flight gliding horizontal flight  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control . automatic flight control . automatic flight control . fly by light control . fly by tube control   |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft RT artificial satellites displacement elastic deformation flexing large space structures satellite control satellite orientation satellite rotation shape control ∞ spacecraft spacecraft control spacecraft motion structural vibration vibration damping  flexible wings UF Rogallo wings GS airfoils . wings . parawings RT fixed wings gliders   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying  high altitude flight high speed flight RT aerodynamics  aeronautics balloon flight climbing flight cruising flight cruising flight flight altitude flight control flight mechanics flight optimization flight safety flight tests flight time formation flying free flight gliding horizontal flight hypersonic flight   | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control . automatic flight control . fly by light control . fly by tube control . fly by wire control  |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control  ∞ spacecraft spacecraft spacecraft motion structural vibration vibration damping  flexible wings UF Rogallo wings GS airfoils . wings . flexible wings RT fixed wings RT fixed wings   | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying high altitude flight high speed flight  RT aerodynamics aeronautics balloon flight climbing flight cruising flight cruising flight flight altitude flight tontrol flight mechanics flight optimization flight safety flight tests flight time formation flying free flight gliding horizontal flight  | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control . automatic flight control . automatic flight control . fly by light control . fly by tube control   |
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| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft  RT artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control  ∞ spacecraft spacecraft motion structural vibration vibration damping  flexible wings  UF Rogallo wings GS airfoils . wings flexible wings parawings  RT fixed wings gliders hang gliders infinite span wings inflatable structures rigid wings  | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying high altitude flight high speed flight  RT aerodynamics  ∞ aeronautics  balloon flight climbing flight cruising flight flight altitude flight control flight mechanics flight optimization flight safety flight tests flight time formation flying free flight gliding horizontal flight hypersonic flight meteorological flight meteorological flight parabolic flight                                       | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control . automatic flight control . automatic flight control fly by light control fly by tube control . fly by wire control . thrust vector control RT aerobatics air traffic control aircraft control aircraft control |
| DEF Space vehicles (usually space structures or rotating satellites) whose surfaces and/or appendages may be subject to elastic flexural deformations (vibrations).  GS aerospace vehicles . flexible spacecraft flexible bodies . flexible spacecraft artificial satellites displacement elastic deformation flexing large space structures satellite control satellite rotation shape control  spacecraft | DEF The movement of an object through the atmosphere or through space, sustained by aerodynamic, aerostatic, or reaction forces, or by orbital speed; especially the movement of a man-operated or man-controlled device, such as a rocket, a space probe, a space vehicle, or an aircraft. Used for flying, high altitude flight, and high speed flight.  UF flying high altitude flight high speed flight  RT aerodynamics  aeronautics balloon flight climbing flight cruising flight cruising flight cruising flight flight altitude flight altitude flight paths flight safety flight tests flight time formation flying free flight gliding horizontal flight hypersonic flight long duration space flight meteorological flight meteorological flight meteorological flight | GS clothing . flight clothing RT coveralls garments goggles helmets pressure suits protective clothing  flight computers USE airborne/spaceborne computers  flight conditions GS conditions . flight conditions RT aircraft icing aviation meteorology cloud cover cockpit weather information systems instrument flight rules meteorological services storms (meteorology) visual flight weather forecasting  flight control GS flight control . automatic flight control . automatic flight control fly by light control fly by tube control fly by wire control thrust vector control RT aerobatics air traffic control                                       |

attitude control physical fitness . flight management systems attitude indicators air navigation flight hazards automated en route ATC air traffic control automatic control GS hazards airborne/spaceborne computers . flight hazards automatic pilots automatic flight control . meteoroid hazards automatic landing control control control configured vehicles air piracy avionics control stability air traffic computer techniques control sticks aircraft accidents flight control control surfaces aircraft hazards ground based control aircraft icing display devices navigation aids aircraft safety onboard data processing entry guidance (STS) aircraft spin ∞ flight pilot support systems aviation meteorology flight characteristics situational awareness flight management systems bird-aircraft collisions systems engineering formation flying ground based control collisions flight mechanics ground support equipment guidance (motion) crash landing RT aerodynamics crashes ascent trajectories helicopter control descent trajectories destruction nelicopter control in-flight monitoring in-flight simulation instrument approach instrument landing systems maneuverability downbursts ∞ flight microbursts (meteorology) ∞ mechanics (physics) midair collisions missile trajectories orbit calculation noise (sound) orbit decay operational hazards orbital mechanics maneuvers missile control toxic hazards weather ∞ platforms reentry trajectories rendezvous navigation flight instruments navigation aids flight instruments rendezvous trajectories navigation instruments . approach indicators space flight space mechanics pointing control systems . attitude indicators radio navigation . . gyro horizons spacecraft reentry remote control automatic pilots spacecraft trajectories rocket engine control flight test instruments thrust programming solar compasses . horizon scanners spacecraft control trajectories . radio altimeters trajectory measurement stability augmentation air navigation turbojet engine control trajectory optimization airborne equipment aircraft control flight crews flight nurses aircraft equipment aircraft instruments UF aircrews GS personnel GS . medical personnel personnel . crews altimeters flight nurses bubble technique RT . . flight crews crews cockpit weather information systems . spacecrews compasses display devices flight operations . flying personnel DEF Collective term for ground support op-. . flight crews engine control engine monitoring instruments erations by flight crew or support personnel preparatory to space flight, or tasks performed . . spacecrews aircraft pilots crew procedures (inflight) head-up displays by crew during flight. crew procedures (preflight) instrument approach GS flight operations instrument flight rules crew procedures (inflight) crew size instrument landing systems aircraft maintenance flight fatigue ∞ instruments crew procedures (preflight) navigators landing instruments ground handling pilots (personnel) Light Airborne Multipurpose System onboard equipment flight envelopes measuring instruments preflight operations DEF The bounds within which a certain navigation instruments refueling flight system can operate, especially a graphic night flights (aircraft) representation of these bounds showing interreonboard equipment flight optimization lationships of operational parameters. position indicators GS optimization flight characteristics flight optimization . flight envelopes radio direction finders burning time aerodynamic characteristics rate of climb indicators Earth-Venus trajectories aerodynamic stability recording instruments ∞ flight aircraft control satellite instruments great circles aircraft maneuvers solar compasses orbital mechanics aircraft performance orbits spacecraft instruments aircraft stability parking orbits spacecraft position indicators ∞ envelopes speed indicators space flight thrust programming flight tests star trackers TERCOM helicopter performance trajectories maneuverability trajectory optimization terrain following flight load recorders GS aircraft instruments flight paths flight fatigue . flight recorders DEF Paths made or followed in the air or in GS fatigue (biology) . flight load recorders space by an aircraft or rocket; the continuous . flight fatigue data recorders series of positions occupied by a flying body; aerospace medicine . flight recorders more strictly, the path of the center of gravity of flight crews . flight load recorders the flying body, referred to the Earth or other measuring instruments ∞ flight stress fixed reference. flight recorders GS flight paths flight stress (biology) . . flight load recorders recording instruments . glide paths pilot performance air navigation flight recorders

flight load recorders flight fitness air traffic air traffic control fitness . flight fitness aircraft instruments strain gages aircraft maneuvers RT ∞ flight stress flying personnel flight management systems airspace

GS management systems

approach

physical examinations

|           | approach control                     |            | crashworthiness                             | c           | ∞ biology                                     |
|-----------|--------------------------------------|------------|---|-------------|---|
|           | area navigation                      |            | destruction                                 |             | flight fatigue                                |
|           | 3                                    |            |   |             |   |
|           | caustic lines                        |            | emergency landing                           |             | jet lag                                       |
|           | climbing flight                      |            | ∘ flight                                    |             | physiological factors                         |
|           | collision avoidance                  | ,          | ∘ flight stress                             |             | psychological factors                         |
|           | collisions                           |            |   |             |   |
|           |                                      |            | flying ejection seats                       |             | stress (physiology)                           |
|           | descent                              |            | midair collisions                           |             | stress (psychology)                           |
| 0         | ∘ drift                              |            | onboard equipment                           |             | weightlessness                                |
| 0         | ∘ flight                             |            | runway incursions                           |             | · ·   |
|           |                                      |            |   | flight c    | urgeons                                       |
|           | gliding                              |            | safety devices                              |             |   |
|           | Global Positioning System            |            | self sealing                                | GS          | personnel                                     |
|           | great circles                        |            | terrorism                                   |             | . medical personnel                           |
|           | ground tracks                        |            | visual flight                               |             | surgeons                                      |
|           |                                      |            | visuai iligiti                              |             |   |
|           | guidance (motion)                    |            |   |             | flight surgeons                               |
|           | horizontal flight                    | flight s   | imulation                                   |             |   |
|           | missile trajectories                 | GS         | simulation                                  | fliaht te   | chnical error                                 |
|           |                                      |            | . flight simulation                         |             | pilot error                                   |
|           | National Airspace Utilization System |            |   | UUL         | photerror                                     |
|           | navigation                           |            | in-flight simulation                        |             |   |
|           | navigation aids                      | RT         | acoustic simulation                         | flight te   | rmination systems                             |
|           | orbits                               |            | altitude simulation                         | ÜSF         | abort apparatus                               |
|           |                                      |            |   | 002         | and it apparatus                              |
| 0         | ∘ paths                              |            | analog simulation                           | er i co     |   |
|           | reentry                              |            | computerized simulation                     | flight te   | est instruments                               |
|           | rocket flight                        |            | control simulation                          | GS          | flight instruments                            |
|           |                                      |            | environment simulation                      |             | . flight test instruments                     |
|           | satellite ground tracks              |            |   | DT          |   |
|           | solar compasses                      |            | landing simulation                          | RT          | aircraft instruments                          |
|           | swath width                          |            | motion simulation                           |             | rocket-borne instruments                      |
|           | Tacan                                |            | scene generation                            |             | spacecraft instruments                        |
|           |                                      |            |   |             |   |
|           | trajectories                         |            | space environment simulation                | gi)l. c. c. | act vehicles                                  |
|           | turning flight                       |            | space flight                                | flight te   | est vehicles                                  |
|           | 0 0                                  |            | systems simulation                          | DEF         | Test vehicles for the conduct of flight       |
|           | uncontrolled reentry (spacecraft)    |            |   |             | ther to test its own capabilities or to carry |
|           | vertical flight                      |            | training simulators                         |             |   |
|           | visual flight                        |            | virtual reality                             |             | ent requiring flight tests.                   |
|           | rioddi ingin                         |            | weightlessness simulation                   | GS          | test vehicles                                 |
| fliabt no | wfo wmo noo                          |            | weighticssriess simulation                  |             | . flight test vehicles                        |
| · .       | erformance                           |            |   | БТ          |   |
| USE       | flight characteristics               | flight s   | imulators                                   | RI ∘        | ∞ aircraft                                    |
|           | _                                    | DEF        | Training devices or apparatus that          |             | launch vehicles                               |
| flight n  | lane                                 |            |   |             | missiles                                      |
| flight p  |                                      |            | e certain conditions of flight or of flight |             |   |
| RT        | air navigation                       | operation  | ons.  |             | research aircraft                             |
|           | air traffic                          | GS         | simulators                                  | c           | ∞ spacecraft                                  |
|           | air traffic control                  |            | . training simulators                       | c           | ∞ vehicles                                    |
|           |                                      |            | •   |             |   |
|           | approach                             |            | flight simulators                           |             | X-36 aircraft                                 |
|           | instrument flight rules              |            | cockpit simulators                          |             |   |
|           | National Airspace Utilization System |            | training devices                            | flight to   | ests  |
|           |                                      |            |   | DEF         | Tests by means of actual or attempted         |
| 0         | ∘ plans                              |            | . training simulators                       |             |   |
|           | routes                               |            | flight simulators                           | flight to   | see how an aircraft, spacecraft, space-       |
|           | thrust programming                   |            | cockpit simulators                          | air vehic   | cle, or missile flies. Tests of a component   |
|           |                                      | DT         |   |             | a flying vehicle, or of an object carried in  |
|           | weather                              | RT         | atmospheric entry simulation                |             |   |
|           |                                      |            | centrifuges                                 | such a      | vehicle, to determine its suitability or      |
| flight re | ecorders                             |            | control simulation                          | reliabilit  | y in terms of its intended function by        |
| GS        |                                      |            |   |             | it endure actual flight.                      |
| GS        | aircraft instruments                 |            | cryogenic wind tunnels                      |             |   |
|           | . flight recorders                   |            | in-flight simulation                        | GS          | flight tests                                  |
|           | flight load recorders                |            | Langley complex coordinator                 |             | . flight stability tests                      |
|           | data recorders                       |            |   | RT          | air start                                     |
|           |                                      |            | lunar orbit and landing simulators          | 111         |   |
|           | . flight recorders                   |            | missile simulators                          |             | aircraft design                               |
|           | flight load recorders                |            | motion simulation                           |             | altitude tests                                |
|           | measuring instruments                |            | motion simulators                           |             | certification                                 |
|           |                                      |            |   |             |   |
|           | . flight recorders                   |            | pilot training                              |             | DAST program                                  |
|           | flight load recorders                |            | space environment simulation                |             | downrange                                     |
|           | recording instruments                |            | space simulators                            |             | dynamic tests                                 |
|           |                                      |            |   |             | engine tests                                  |
|           | . flight recorders                   |            | test facilities                             |             |   |
|           | flight load recorders                |            | training devices                            | 0           | ∞ flight                                      |
|           | · ·                                  |            | wind tunnels                                |             | flight envelopes                              |
| flight ru | iles                                 |            | Willia tallifold                            |             | free flight test apparatus                    |
|           |                                      |            | 4-1-114- 44-                                |             | full scale tests                              |
| GS        | rules                                | flight s   | tability tests                              |             |   |
|           | . flight rules                       | GS         | flight tests                                |             | ground tests                                  |
|           | instrument flight rules              |            | . flight stability tests                    |             | high altitude tests                           |
|           |                                      |            | -   |             | highly maneuverable aircraft                  |
| -         | visual flight rules                  |            | stability tests                             |             |   |
| RT        | air navigation                       |            | . flight stability tests                    |             | in-flight monitoring                          |
|           | air traffic control                  | RT         | aerodynamic stability                       |             | in-flight simulation                          |
|           | collision avoidance                  |            | ∘ tests                                     |             | missile design                                |
|           |                                      | ,          | o 16212                                     |             |   |
|           | National Airspace Utilization System |            |   |             | missile tests                                 |
|           | National Aviation System             | ∞ flight s | tress                                       |             | postmission analysis (spacecraft)             |
|           | noise reduction                      | SN         | (USE OF A MORE SPECIFIC TERM IS             |             | space electric rocket tests                   |
|           |                                      | OIN        | RECOMMENDEDCONSULT THE TERMS                |             |   |
|           |                                      |            | LISTED BELOW)                               |             | stability tests                               |
| flight s  | atety                                | RT         |   | 0           | ∞ tests                                       |
|           | safety                               | L/ I       | flight fatigue                              |             | vibration tests                               |
|           | •                                    |            | flight fitness                              |             |   |
|           | . flight safety                      |            | flight safety                               |             | wing flow method tests                        |
| RT        | aerospace safety                     |            | human factors engineering                   |             |   |
|           | air piracy                           |            | 5 5   | flight ti   | me  |
|           |                                      |            | space flight stress                         | -           |   |
|           | air traffic control                  |            | stress analysis                             |             | The time from the moment an aircraft          |
|           | aircraft accidents                   |            | •   | first mo    | ves under its own power for the purpose       |
|           | aircraft approach spacing            |            | stresses                                    |             | until the moment it comes to rest at the      |
|           |                                      |            |   |             |   |
|           | aircraft hazards                     | fliaht s   | tress (biology)                             |             | int of landing.                               |
|           | aircraft icing                       | SN         | (EXCLUDES MECHANICAL STRESS AND             | GS          | time  |
|           | aircraft safety                      | SIN        |   |             | . flight time                                 |
|           |                                      | 00         | AND STRAIN)                                 | DT          |   |
|           | aircraft spin                        | GS         | stress (biology)                            | RT          | air traffic control                           |
|           | all-weather landing systems          |            | . flight stress (biology)                   |             | burning time                                  |
|           | aviation meteorology                 |            | space flight stress                         | c           | ∞ flight                                      |
|           |                                      | DT         |   | C           |   |
|           | collision avoidance                  | RT         | acceleration (physics)                      |             | testing time                                  |
|           |                                      |            |   |             |   |
|           | crashes                              |            | biological effects                          |             | trajectories                                  |

## flight training

transit time floats rainstorms turnaround (STS) ∞ showers windows (intervals) floating point arithmetic storms (meteorology) number theory weather forecasting . arithmetic flight training . floating point arithmetic GS education floods computer programs . flight training DEF Rising bodies of water (as in streams, computers lakes, seas, or behind dams) that overtop their . . pilot training data processing . . space flight training natural or artificial confines and that cover land not normally underwater. Especially, any rela-. . astronaut training floats ejection training tively high streamflows that overflow their banks flotation systems flying personnel in any reach of the stream, or that are measured RT ballast (mass) by gage height of discharge quantity. training simulators buoys alluvium emergency life sustaining systems drought ∞ flight vehicles floating flood plains (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN inflatable structures flood predictions landing gear hydrology life rafts aircraft configurations hydrology models ground effect machines Mississippi River (US) hypersonic vehicles separators precipitation (meteorology) lunar flying vehicles storm damage flocculating missiles storms agglomeration reentry vehicles storms (meteorology) coagulation research vehicles tides coalescing rocket vehicles water flow colloiding ∞ vehicles water management concentrating watersheds flotation flint micelles GS chalcogenides floors precipitation (chemistry) . oxides UF decks (floors) settling . . dioxides RT basements water treatment . . flint buildings silicon compounds ceilings (architecture) flood control . flint doors The prevention or reduction of damage RT quartz ∞ platforms caused by flooding, as by containing water in reservoirs removed from areas where it would substructures tiles flip-flops do damage, improving channel capacity to conwalls Devices having two stable states and vey water past or through critical areas with the two input terminals (or types of input signals) least amount of damage, and diverting excess each of which corresponds with one of the two water into bypasses or floodways. Floquet theorem states. The circuits remain in either state until RT canals GS theorems caused to change to the other state by applica-∞ control Floquet theorem tion of the corresponding signal. Similar bistable differential equations dams devices with an input which allows it to act as a linear equations drainage single-stage binary counter. Used for bistable periodic functions hydrology amplifiers. rainstorms ÙF bistable amplifiers storm damage flora GS circuits storms (meteorology) USE plants (botany) . bistable circuits watersheds . . flip-flops Florida . multivibrators flood damage nations GS . flip-flops GS damage . United States computer storage devices flood damage . Florida data storage drainage patterns Everglades (FL) fluid switching elements hydrology Gulf of Mexico fluidic circuits landslides Merritt Island (FL) oscillators precipitation (meteorology) seepage flotation storms FLIR detectors activation storms (meteorology) DEF Forward-looking infrared detectors for beneficiation tides sensing all emissions of heat or light. Used for classifiers water erosion forward looking infrared detectors. coagulation water flow forward looking infrared detectors concentrating GS measuring instruments flocculating flood plains . radiation measuring instruments fluid rotor gyroscopes DEF The surfaces or strips of relatively . . actinometers foaming smooth land adjacent to river channels, con-... radiometers levitation structed by the present rivers in their existing . . . . infrared detectors ∞ separation regimens and covered with water when the .... FLIR detectors rivers overflow. settling . . infrared instruments size separation GS land . . . infrared detectors suspension systems (vehicles) . plains ... FLIR detectors . flood plains water treatment RT ∞ detectors landforms infrared radai . plains flotation systems ∞ sensors . flood plains USE floats floods float zones hydrogeology ∞ flour crystal growth hydrology (USE OF A MORE SPECIFIC TERM IS SN melts (crystal growth) RECOMMENDED--CONSULT THE TERMS LISTED BELOW) silicon flood predictions solar cells RT fines predictions GS space processing flour (food) flood predictions zone melting floods hydrogeology flour (food) hydrology floating RT ∞ flour ballast (mass) precipitation (meteorology) ∞ food

rain

millet

buoyancy

powder (particles) mathematical models convection-diffusion equation ∞ equations flow coefficients ∞ flow ∞ flow GS coefficients fluid flow (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . flow coefficients k-epsilon turbulence model . discharge coefficient particle in cell technique DEF A stream or movement of air or other aerodynamic coefficients Percus method fluid, or the rate of fluid movement, in the open attenuation coefficients Rayleigh equations or in a duct, pipe, or passage; specifically, an mass flow factors Reynolds averaging nozzle thrust coefficients space-time CE/SE method aerodynamics reflectance turbulence models annular flow transport properties Brillouin flow flow fields cavity flow flow deflection USE flow distribution circulation RT computational fluid dynamics flow geometry deflectors corner flow geometry creep properties flow distribution GS cross flow flow velocity flow geometry Prandtl-Meyer expansion annular flow exhaust nozzles axial flow flow equations flow direction indicators axisymmetric flow flow velocity display devices backward facing steps fluid flow . flow direction indicators bypass ratio grazing flow . . wind vanes channel flow heat transmission coaxial flow information flow measuring instruments core flow interactional aerodynamics . indicating instruments . . flow direction indicators cross flow inviscid flow ... wind vanes ducted flow low density flow helical flow mass flow flow distortion horseshoe vortices orifice flow GS distortion inlet airframe configurations outlet flow flow distortion panel method (fluid dynamics) inlet flow aerodynamic coefficients laminar flow plastic flow fluid flow meridional flow reacting flow horseshoe vortices nozzle flow shear flow multiphase flow one dimensional flow solids flow Orr-Sommerfeld equations parallel flow steady flow oscillating flow radial flow transonic flow small perturbation flow steady flow unsteady flow vortices stratified flow viscous flow wing tip vortices three dimensional flow two dimensional flow flow chambers flow distribution wedge flow RT ∞ chambers UF flow fields flow patterns ∞ flow graphs (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) equipotentials GS distribution (property) flow characteristics . flow distribution dynamic characteristics dynamic characteristics . flow characteristics . flow characteristics flow charts . . flow distribution . flow distribution . . flow stability flow distribution boundary layer flow ... boundary layer stability signal flow graphs boundary layer separation boundary layer thickness . . . flame stability flow measurement . . . magnetohydrodynamic stability cavitation flow GS mechanical measurement . Weibel instability Chapman-Enskog theory . flow measurement Goertler instability exhaust flow simulation . . particle image velocimetry Taylor instability field theory (physics) RT anemometers . . flow velocity flow deflection annuli . . solar wind velocity ∞ flow graphs drag force anemometers RT barotropic flow hydrodynamic coefficients drag measurement isothermal flow flowmeters critical flow method of characteristics fluid flow cross flow numerical flow visualization eddy viscosity gas meters particle image velocimetry hot-film anemometers inviscid flow reattached flow hot-wire anemometers laminar flow rheoelectrical simulation laser doppler velocimeters nonuniform flow separated flow ∞ measurement outlet flow stagnation point multiphase flow reattached flow Strouhal number nonintrusive measurement separated flow three dimensional bodies steady flow ∞ nozzles trapped vortices Strouhal number orifices velocity distribution pitot tubes subcritical flow vortex sheets pneumatic probes supercritical flow water tunnel tests pressure measurement turbulence wind tunnel tests pressure sensitive paints turbulent flow rheology viscosity flow equations solids flow viscous flow GS flow equations velocity measurement . boundary layer equations Venturi tubes . Blasius equation flow charts water flow Graphical representations of se-Chaplygin equation wind velocity quences of operations using symbols to repre-Navier-Stokes equation sent the operations. Flow charts are more de-Reynolds equation flow nets tailed representations than diagrams. Von Karman equation equipotentials RT charts vorticity equations GS seepage flow charts . Helmholtz vorticity equation RT block diagrams **Burnett equations** flow noise (added March 2000) Baldwin-Lomax turbulence model computer programming data flow analysis Noise produced by the flow of fluids Bernoulli theorem computational fluid dynamics

∞ flow graphs

around or through a body; the pressure varia-

## flow regulators

tions associated with a turbulent flow field. Orr-Sommerfeld equations wind tunnel models GS elastic waves rotary stability . sound waves flowmeters steady flow GS measuring instruments . . noise (sound) Strouhal number ... flow noise supersonic diffusers . flowmeters systems stability . . gas meters . . . . aerodynamic noise . . . . . blade slap noise turbulent flow . . hot-wire flowmeters . . . . . propeller noise unsteady flow . rheometers .... screech tones viscous fluids RT electrical measurement Von Karman equation flow measurement aeroacoustics vortex breakdown flow regulators ducted flow Ffowcs Williams-Hawkings equation fluid flow vortex filaments fuel gages nozzle flow vortices hot-wire anemometers pipe flow vorticity underwater acoustics mechanical measurement flow theory flow patterns GS flow theory pitot tubes USE flow distribution . mixing length flow theory pressure gages aerodynamics pressure measurement boundary layer equations sonic anemometers flow rate USE flow velocity continuum mechanics speed indicators convection-diffusion equation turbine instruments flow regulators dislocations (materials) velocity measurement GS control equipment fluid flow Venturi tubes . regulators fluid mechanics vortex precession . . flow regulators hydrodynamic equations . . fuel flow regulators hydrodynamics **FLOX** flowmeters Lighthill method fluorine-liquid oxygen mass flow liquids oxygen regulators pressure regulators Navier-Stokes equation . cryogenic fluids . . FLŎX Orr-Sommerfeld equations flow resistance oxidizers panel method (fluid dynamics) pneumatics GS friction . rocket oxidizers . FLOX . flow resistance rheology solids flow . . friction drag fluorine . . . aerodynamic drag liquid oxygen ∞ theories . . . supersonic drag Fltsatcom . viscous drag flow velocity RT eddy viscosity USE Fleet Satellite Communication DEF The volume per time unit given to the System ∞ high resistance flow of gasses or other fluid substances which ∞ low resistance emerge from an orifice, pump, turbine, or fluctuation ∞ resistance passes along a conduit or channel. Used for flow variations USE skin friction rate. viscosity UF flow rate fluctuation theory GS dynamic characteristics homogeneous turbulence flow separation . flow characteristics . . . solar wind velocity rates (per time) squeezed states (quantum theory) boundary layer separation statistical mechanics separated flow ∞ theories . flow velocity
. . solar wind velocity flow stability flue gases hydrodynamic stability Gaseous combustion products from a dynamic characteristics velocity furnace. . dynamic stability . flow velocity GS gases . . motion stability . solar wind velocity . exhaust gases ... flow stability Biot-Savart law . flue gases . . . . boundary layer stability . . . . flame stability choked flow air pollution discharge coefficient combustion products . . . . magnetohydrodynamic stability . . . . . Weibel instability dump combustors desulfurizing exhaust velocity electric power plants Goertler instability flow flues . . . Taylor instability flow deflection pollution control . flow characteristics hydrodynamic coefficients scrubbers . . flow stability hypersonic flow boundary layer stability hypervelocity flow fluence . . . flame stability laser anemometers RT health physics . . . magnetohydrodynamic stability low speed ionizing radiation Weibel instability mass flow rate radiation counters Goertler instability parallel flow . . Taylor instability particle image velocimetry fluerics stability subsonic flow GS fluidics . dynamic stability supersonic flow fluerics . . motion stability transonic flow fluid amplifiers ... flow stability unsteady flow fluid switching elements . . . . boundary layer stability velocity distribution fluidic circuits velocity distribution velocity measurement vortex lattice method flame stability hydraulic analogies . . . . magnetohydrodynamic stability . Weibel instability vortex precession flues Goertler instability chimneys . . . Taylor instability flow visualization draft (gas flow) aerodynamic stability visualization of flow ducts baroclinic instability flow visualization GS exhaust systems directional stability . numerical flow visualization flue gases differential interferometry fluid flow vents hydrodynamic equations fluid flow hydraulic analogies hydrofoil oscillations fluid amplification Kelvin-Helmholtz instability particle image velocimetry USE fluid amplifiers laminar flow pressure sensitive paints lateral stability Schlieren photography fluid amplifiers longitudinal stability shadowgraph photography fluid amplification

water tunnel tests

fluid jet amplifiers

low speed stability

| GS       | amplifiers                    |           | unsteady state                           | head flow                  |
|----------|-------------------------------|-----------|--|----------------------------|
|          | . fluid amplifiers            |           | vortex filaments                         | pressure heads             |
|          | jet amplifiers                |           |  | . helical flow             |
| RT       | amplification                 |           | led shells                               | . hypersonic flow          |
|          | automatic control valves      | DEF       | Shells of revolution containing a gas or | . hypervelocity flow       |
|          | boundary layer control        | liquid.   |  | . incompressible flow      |
|          | Coanda effect                 | GS        | shells (structural forms)                | Stokes flow                |
|          | convergent nozzles            |           | . fluid filled shells                    | . internal flow            |
|          | fluerics                      |           | liquid filled shells                     |                            |
|          | fluidic circuits              | RT        | hydrodynamic ram effect                  | cavity flow                |
|          | fluidics                      |           | propellant tanks                         | channel flow               |
|          | hydraulic equipment           |           | reinforced shells                        | open channel flow          |
|          | pneumatic equipment           |           | shell stability                          | ducted flow                |
|          | pressure recovery             | c         | ∞ storage                                | Knudsen flow               |
|          | turbulent flow                |           | tanks (containers)                       | inlet flow                 |
|          | turbulent jets                | c         | ∞ vessels                                | nozzle flow                |
|          | wall jets                     |           |  | pipe flow                  |
|          | wan joto                      | fluid fil | ms                                       | . inviscid flow            |
|          |                               | GS        | fluid films                              | stagnation flow            |
|          | oundaries                     |           | . squeeze films                          | . isothermal flow          |
| GS       | boundaries                    | RT «      | ∞ films                                  | . jet flow                 |
|          | . fluid boundaries            |           | gas bearings                             | air jets                   |
|          | gas-solid interfaces          |           | liquid-solid interfaces                  | jet mixing flow            |
|          | jet boundaries                |           | nquia cona interracco                    | peripheral jet flow        |
|          | liquid-liquid interfaces      | fluid fil | ters                                     | supersonic jet flow        |
|          | liquid-solid interfaces       | UF        | mass filters                             | . laminar flow             |
|          | liquid-vapor interfaces       | O.        | particulate filters                      | Blasius flow               |
|          | interfaces                    | GS        | separators                               | Hartmann flow              |
|          | . fluid boundaries            | 00        | . fluid filters                          | stratified flow            |
|          | gas-solid interfaces          |           | . air filters                            | . liquid flow              |
|          | jet boundaries                | DT        |  |                            |
|          | liquid-liquid interfaces      | RT        | centrifuges                              | open channel flow          |
|          | liquid-solid interfaces       |           | concentrators                            | water flow                 |
|          | liquid-vapor interfaces       | c         | ∞ filters                                | . low density flow         |
| рт       |                               |           | filtration                               | . magnetohydrodynamic flow |
| RT       | backward facing steps         |           | fluidized bed processors                 | . mass flow                |
|          | boundary layers               |           | sieves                                   | . multiphase flow          |
|          | cavity flow                   |           | sizing screens                           | two phase flow             |
|          | free boundaries               |           | · ·                                      | . nonNewtonian flow        |
|          | heat transfer                 | fluid flo | ow                                       | . nonuniform flow          |
|          | interface stability           | UF        | induced fluid flow                       | . one dimensional flow     |
|          | liquid levels                 | -         | rotational flow                          | . orifice flow             |
|          | liquid surfaces               | GS        | fluid flow                               | . outlet flow              |
|          | pressure gradients            | 00        | . adiabatic flow                         | . parallel flow            |
|          |                               |           |  |                            |
| el: a a. | mamiaa                        |           | . axial flow                             | . wedge flow               |
|          | rnamics                       |           | . axisymmetric flow                      | pipe flow                  |
| UF       | cascades (fluid dynamics)     |           | annular flow                             | three dimensional flow     |
| GS       | fluid mechanics               |           | Karman-Bodewadt flow                     | Karman-Bodewadt flow       |
|          | . fluid dynamics              |           | . barotropic flow                        | secondary flow             |
|          | computational fluid dynamics  |           | . base flow                              | . plastic flow             |
|          | gas dynamics                  |           | . Beltrami flow                          | Tresca flow                |
|          | aerodynamics                  |           | . blood flow                             | . potential flow           |
|          | aerothermodynamics            |           | . capillary flow                         | equipotentials             |
|          | hypersonics                   |           | . cascade flow                           | radial flow                |
|          | rotor aerodynamics            |           | . choked flow                            | . reacting flow            |
|          | supersonics                   |           | . coaxial flow                           | combustible flow           |
|          | unsteady aerodynamics         |           | . compressible flow                      | . recirculative fluid flow |
|          | interactional aerodynamics    |           | Ringleb flow                             | reversed flow              |
|          | rarefied gas dynamics         |           | transonic flow                           | . shear flow               |
|          | hydrodynamics                 |           | . conical flow                           | . single-phase flow        |
|          | elastohydrodynamics           |           | . convective flow                        | . small perturbation flow  |
|          | electrohydrodynamics          |           | . Rayleigh-Benard convection             | . solids flow              |
|          |                               |           | Benard cells                             |                            |
|          | magnetohydrodynamics          |           |  | . steady flow              |
|          | rotons                        |           | buoyancy-driven flow                     | Couette flow               |
| DT       | vortex shedding               |           | . core flow                              | Hartmann flow              |
| RT       | continuity equation           |           | . corner flow                            | Ringleb flow               |
|          | convection                    |           | . counterflow                            | . steam flow               |
| 0        | dynamics                      |           | . critical flow                          | . subcritical flow         |
|          | Eyring theory                 |           | . cross flow                             | . subsonic flow            |
|          | fluid management              |           | . free flow                              | . supercritical flow       |
|          | flux vector splitting         |           | . fuel flow                              | . supersonic flow          |
|          | gas-solid interactions        |           | propellant transfer                      | supersonic jet flow        |
|          | geophysical fluids            |           | . gas flow                               | . turbulent flow           |
|          | Glimm method                  |           | air flow                                 | cavitation flow            |
| 0        | ⋄ hydraulics                  |           | air currents                             | supercavitating flow       |
|          | hydromechanics                |           | jet streams (meteorology)                | . two dimensional flow     |
|          | kinetics                      |           | meridional flow                          | Couette flow               |
|          | Magnus effect                 |           | vertical air currents                    | Ringleb flow               |
| _        | o mechanics (physics)         |           | continuum flow                           | . uniform flow             |
|          | ocean dynamics                |           | cooling flows (astrophysics)             | Blasius flow               |
|          |                               |           |  |                            |
|          | panel method (fluid dynamics) |           | equilibrium flow                         | . unsteady flow            |
|          | piston theory                 |           | frozen equilibrium flow                  | oscillating flow           |
|          | primitive equations           |           | shifting equilibrium flow                | . viscous flow             |
|          | quasi-steady states           |           | free molecular flow                      | boundary layer flow        |
| 0        | ∘ science                     |           | Knudsen flow                             | reattached flow            |
|          | slamming                      |           | molecular flow                           | secondary flow             |
|          | stagnation point              |           | slip flow                                | separated flow             |
|          | steady state                  |           | transition flow                          | boundary layer separation  |
|          | streamlining                  |           | nonequilibrium flow                      | Couette flow               |
|          | thermohydraulics              |           | pipe flow                                | Karman-Bodewadt flow       |
|          | turbulence                    |           | . head (fluid mechanics)                 | Stokes flow                |
|          | tal ballot loo                |           | . nodu (naid modifatilos)                | Olukes now                 |

. wall flow jet streams (meteorology) working fluids acoustic streaming annular ducts fluid pressure plasma jets Bernoulli theorem pressure fluid logic boundary layers . fluid pressure canals . water pressure computer design Cartan space beta factor fluidic circuits chemical engineering fluid power fluidics fluidics circulation ∞ logic coaxial nozzles o fluids logic circuits ∞ conductivity hydraulic fluids convection currents fluid management fluid rotor gyroscopes ∞ currents The isolation and separation of liquids gyroscopes dimensional analysis from gas in a storage vessel which operates in a dimensionless numbers . rotary gyroscopes reduced or zero gravity environment using liquid . fluid rotor gyroscopes drag reduction acquisition devices such as those used in the duct geometry flotation Space Shuttle RCS tankage expulsion gimbals RT cryogenic fluid storage ∞ flow cryogenic fluids fluid shifts (biology) flow distortion cryogenic rocket propellants (added August 2004) flow equations fluid dynamics DEF Translocation of body fluids from one flow measurement fuel control compartment to another, such as from the vasflow stability microgravity cular to the interstitial compartments. Fluid shifts flow theory are associated with profound changes in vascuflow visualization fluid mechanics lar permeability and water-electrolyte imbalflowmeters The experimental and mathematical ance. The shift can also be from the lower body fluidics study of the mechanical properties of gases and to the upper body as in conditions of weightless- $\infty$  fluids liquids at rest and in motion. ness. friction GS fluid mechanics biological effects Froude number . fluid dynamics . fluid shifts (biology) geophysical fluid flow cells . . computational fluid dynamics aerospace medicine heat transmission . . gas dynamics body fluids . . . aerodynamics gravitational physiology hydrodynamics . . . . aerothermodynamics lower body negative pressure hydromechanics . . . . hypersonics orthostatic tolerance injection . . . . rotor aerodynamics physiological effects labyrinth seals . . . . supersonics leakage . unsteady aerodynamics fluid switching elements Lewis numbers . . . interactional aerodynamics GS circuits Magnus effect . rarefied gas dynamics . switching circuits Manning theory . . hydrodynamics . fluid switching elements materials handling elastohydrodynamics switches mechanical engineering . . . electrohydrodynamics . switching circuits
. . fluid switching elements ocean currents . . . magnetohydrodynamics ocean surface . . rotons acoustic streaming pipes (tubes) . vortex shedding automatic control valves planetary waves . hydromechanics flip-flops pressure gradients . . hydrodynamics Rayleigh waves fluerics ... elastohydrodynamics fluidic circuits Revnolds number electrohydrodynamics fluidics skin friction ... magnetohydrodynamics hydraulic equipment solar convection (astronomy) . . hydrostatics stellar convection pneumatic equipment . . magnetohydrostatics streams . pneumatics fluid transmission lines supersonic boundary layers RT aerostatics GS transmission lines surges  $\infty \, bleeding$ . fluid transmission lines syringes continuum mechanics thermohydraulics hydraulic fluids diffusivity transmission fluids ultrasonic cleaning ∞ dynamics working fluids vortices flat plates wing flow method tests flow theory fluid transpiration fluidics USE transpiration fluid injection ∞ hydraulics GS injection hydrodynamic equations fluidic circuits . fluid injection incompressibility . . gas injection GS circuits kinetics . . liquid injection fluidic circuits Maxwell fluids . . . deep well injection (wastes) flip-flops ∞ mechanics (physics) fluerics water injection micropolar fluids fluid amplifiers RT channel flow ∞ science fluid logic fuel injection statics fluid power inlet flow supercritical fluids fluid switching elements laminar mixing thermodynamics fluidics nozzle flow fly by tube control secondary injection fluid power microfluidic devices fluid jet amplifiers compressible fluids USE fluid amplifiers fluid pressure fluidics fluidic circuits GS fluidics iet amplifiers fluidics . fluerics hydraulic control RT amplification fluid jets GS fluid jets hydraulic equipment o control . air jets . free jets ∞ hydraulics fluid amplifiers fluid flow hydrodynamics . gas jets incompressible fluids fluid logic . hydraulic jets pneumatic control fluid mechanics . vapor jets jet amplifiers pneumatic equipment fluid power pneumatics fluid pressure

∞ power

∞ pressure drop

fluid switching elements

fluidic circuits

iet flow

jet mixing flow

hydraulic analogies plasma radiation . . . . uranium fluorides hydraulic control . rhodamine . . . . zinc fluorides internal flow temperature sensitive paints ... zirconium fluorides ∞ loaic triboluminescence nitrogen fluorides microfluidic devices . . . nitryl fluorides pneumatic circuits oxyfluorides fluorescent emission pneumatic control ... oxygen fluorides USE fluorescence pneumatic equipment ozone fluoride pneumatics ... perchloryl fluorides fluorides . . . polyvinyl fluoride GS halogen compounds ... sulfur fluorides fluidized bed processors . fluorine compounds beds (process engineering) chemical reactors . sulfur hexafluoride . . fluorides . . technetium fluorides ... antimony fluorides fluid filters RT excimer lasers barium fluorides furnaces boron fluorides fluorination separators chlorine fluorides chemical reactions compound A . halogenation ∞ fluids cryolite (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) anisotropic fluids . fluorination deuterium fluorides RT defluorination difluorides . . . . calcium fluorides fluorine binary fluids . fluorspar GS chemical elements body fluids . . . hydrofluoric acid . halogens cerebrospinal fluid . . . metal fluorides . . fluorine compressible fluids aluminum fluorides . . . fluorine isotopes conducting fluids beryllium fluorides liquid fluorine cryogenic fluids ... cadmium fluorides RT FLOX ferrofluids calcium fluorides oxidizers fluid flow . . fluorspar fluid pressure cesium fluorides fluorine compounds gases chromium fluorides GS halogen compounds gyroscope fluids cobalt fluorides . fluorine compounds high temperature fluids copper fluorides . . fluorides hydraulic fluids lanthanum fluorides . . . antimony fluorides ideal fluids . lithium fluorides ... barium fluorides incompressible fluids magnesium fluorides boron fluorides liquids nickel fluorides chlorine fluorides magnetorheological fluids Maxwell fluids . . plutonium fluorides . . . compound A protactinium fluorides cryolite micropolar fluids Newtonian fluids sodium fluorides deuterium fluorides strontium fluorides . . . difluorides nonequilibrium flow thorium fluorides .... calcium fluorides nonNewtonian fluids tungsten fluorides . fluorspar rheology rotating fluids . . . . uranium fluorides ... hydrofluoric acid zinc fluorides . . . metal fluorides serums ... zirconium fluorides . . . . aluminum fluorides siphoning nitrogen fluorides beryllium fluorides solids nitryl fluorides ... cadmium fluorides supercritical fluids oxyfluorides .... calcium fluorides . . . oxygen fluorides superfluidity . . . . . fluorspar transmission fluids ozone fluoride . cesium fluorides viscous fluids . . . perchloryl fluorides .... chromium fluorides polyvinyl fluoride weightless fluids cobalt fluorides working fluids . . . sulfur fluorides . . . . copper fluorides . sulfur hexafluoride lanthanum fluorides . . . . lithium fluorides fluid-solid interactions technetium fluorides . . . . magnesium fluorides . . . . nickel fluorides DEF The interactions of a rigid or elastic halides structure with an incompressible or compress-. . fluorides antimony fluorides barium fluorides ible fluid. Airblast loading and response, acousplutonium fluorides tic interaction, aeroelasticity, and hydroelasticity .... protactinium fluorides comprise its major divisions.

GS fluid-solid interactions boron fluorides sodium fluorides chlorine fluorides strontium fluorides gas-solid interactions compound A thorium fluorides . gas-metal interactions cryolite . . . . tungsten fluorides gas-solid interfaces deuterium fluorides . . . . uranium fluorides ∞ interactions difluorides zinc fluorides liquid-solid interfaces . . . . calcium fluorides zirconium fluorides surface reactions . fluorspar nitrogen fluorides hydrofluoric acid ... nitryl fluorides fluorescence metal fluorides oxyfluorides DEF Emission of light or other radiant en-. . aluminum fluorides ... oxygen fluorides ergy as a result of and only during absorption of beryllium fluorides ozone fluoride radiation of a different wavelength from some . . . . cadmium fluorides ... perchloryl fluorides other source. Used for fluorescent emission. calcium fluorides polyvinyl fluoride fluorescent emission . . . . . fluorspar sulfur fluorides GS emission cesium fluorides . sulfur hexafluoride . light emission .... chromium fluorides ... technetium fluorides . . luminescence cobalt fluorides . . fluorite . . . fluorescence copper fluorides . . fluoro compounds . . . . laser induced fluorescence lanthanum fluorides . . . cryolite .... phosphorescence lithium fluorides ... difluoro compounds magnesium fluorides . perfluoroalkane resonance fluorescence . . . . nickel fluorides .... polytetrafluoroethylene . . . x ray fluorescence electromagnetic absorption plutonium fluorides . teflon (trademark) extinction . . . . protactinium fluorides . . . fluorine organic compounds Mossbauer effect sodium fluorides . . . . fluoroamines . . . . strontium fluorides . . . . . nitrofluoramines phosphors photoexcitation thorium fluorides . trifluoroamine oxide

. . . . tungsten fluorides

photoluminescence

. . . . fluorocarbons

|           | fluorohydrocarbons           | fluoroamines                       | Viton rubber (trademark)                          |
|-----------|------------------------------|------------------------------------|---|
|           | carbon tetrafluoride         | nitrofluoramines                   |   |
|           | chlorofluoromethane          | trifluoroamine oxide               | fluoromica  |
|           | polytetrafluoroethylene      | fluorocarbons                      | USE fluorosilicates                               |
|           | teflon (trademark)           | fluorohydrocarbons                 | mica  |
|           | fluoropolymers               | carbon tetrafluoride               |   |
|           | polytetrafluoroethylene      | chlorofluoromethane                | fluorophlogopite                                  |
|           | teflon (trademark)           | polytetrafluoroethylene            | GS minerals                                       |
|           | KEL-F                        | teflon (trademark)                 | . mica  |
|           | polyvinyl fluoride           | fluoropolymers                     | fluorophlogopite                                  |
|           | perfluoroalkane              | polytetrafluoroethylene            |   |
|           | perfluoroguanidine           | teflon (trademark)                 | fluoroplastics                                    |
|           | fluorosilicates              | KEL-F                              | USÉ fluoropolymers                                |
|           | tetrafluorohydrazine         | polyvinyl fluoride                 | . ,   |
| DT        | chemical compounds           | perfluoroalkane                    | fluoropolymers                                    |
| IX1 ×     | halocarbons                  | perfluoroguanidine                 | DEF A family of polymers based on fluorine        |
|           | Halocarbons                  | fluorosilicates                    | replacement of hydrogen atoms in hydrocarbon      |
| fluorino  | isotopes                     |                                    | molecules. Compounds are characterized by         |
|           | chemical elements            | tetrafluorohydrazine               | chemical inertness, thermal stability, and low    |
| 03        |                              | RT ∞ chemical compounds            | coefficient of friction. Used for fluoroplastics. |
|           | . halogens                   | halocarbons                        | UF fluoroplastics                                 |
|           | fluorine                     |                                    | '   |
|           | fluorine isotopes            |                                    | 0 1   |
|           | . nuclides                   | fluoroamines                       | . fluorine compounds                              |
|           | isotopes                     | GS halogen compounds               | fluoro compounds                                  |
|           | fluorine isotopes            | . fluorine compounds               | fluorine organic compounds                        |
|           |                              | fluoro compounds                   | fluoropolymers                                    |
|           | organic compounds            | fluorine organic compound          | ds polytetrafluoroethylene                        |
| UF        | organic fluorine compounds   | fluoroamines                       | terion (trademark)                                |
| GS        | halogen compounds            | nitrofluoramines                   | KEL-F   |
|           | . fluorine compounds         | trifluoroamine oxide               | polyvinyl fluoride                                |
|           | fluoro compounds             | organic compounds                  | organic compounds                                 |
|           | fluorine organic compounds   | . amines                           | . fluorine organic compounds                      |
|           | fluoroamines                 |                                    | fluoropolymers                                    |
|           | nitrofluoramines             | fluoroamines                       | polytetrafluoroethylene                           |
|           | trifluoroamine oxide         | nitrofluoramines                   | teflon (trademark)                                |
|           | fluorocarbons                | trifluoroamine oxide               | KEL-F `   |
|           | fluorohydrocarbons           | . fluorine organic compounds       | polyvinyl fluoride                                |
|           | carbon tetrafluoride         | fluoroamines                       | RT fluorocarbons                                  |
|           | chlorofluoromethane          | nitrofluoramines                   | plastics  |
|           | polytetrafluoroethylene      | trifluoroamine oxide               | ∞ polymers  |
|           |                              |                                    | ∞ polymers  |
|           | teflon (trademark)           |                                    | fluoroscopy                                       |
|           | fluoropolymers               | fluorocarbons                      | RT medical equipment                              |
|           | polytetrafluoroethylene      | DEF All compounds containing fluc  | rine and  |
|           | teflon (trademark)           | carbon (including other elements). | x ray analysis                                    |
|           | KEL-F                        | GS carbon compounds                | fluorosilicates                                   |
|           | polyvinyl fluoride           | . halocarbons                      |   |
|           | perfluoroalkane              | fluorocarbons                      | UF fluoromica                                     |
|           | perfluoroguanidine           | halogen compounds                  | GS halogen compounds                              |
|           | organic compounds            | . fluorine compounds               | . fluorine compounds                              |
|           | . fluorine organic compounds | fluoro compounds                   | fluoro compounds                                  |
|           | fluoroamines                 | fluorine organic compound          | de fluorosilicates                                |
|           | nitrofluoramines             | fluorocarbons                      | omeen compense                                    |
|           | trifluoroamine oxide         | . halocarbons                      | . silicates                                       |
|           | fluorocarbons                |                                    | fluorosilicates                                   |
|           | fluorohydrocarbons           | fluorocarbons                      | RT minerals                                       |
|           | carbon tetrafluoride         | organic compounds                  |   |
|           | chlorofluoromethane          | . fluorine organic compounds       | fluorspar   |
|           | polytetrafluoroethylene      | fluorocarbons                      | GS calcium compounds                              |
|           | teflon (trademark)           | RT chlorofluorocarbons             | . calcium fluorides                               |
|           | fluoropolymers               | fluorohydrocarbons                 | fluorspar   |
|           | polytetrafluoroethylene      | fluoropolymers                     | halogen compounds                                 |
|           | teflon (trademark)           | halon                              | . fluorine compounds                              |
|           | KEL-F `                      |                                    | fluorides   |
|           | polyvinyl fluoride           |                                    | difluorides                                       |
|           | perfluoroalkane              | fluorohydrocarbons                 | calcium fluorides                                 |
|           | perfluoroguanidine           | GS halogen compounds               | fluorspar   |
| RT ~      | chemical compounds           | . fluorine compounds               | metal fluorides                                   |
| 101       | onomical compounds           | fluoro compounds                   | calcium fluorides                                 |
| fluorine- | liquid oxygen                | fluorine organic compound          |   |
|           | FLOX                         | fluorohydrocarbons                 | . halides   |
| OOL       | LOX                          | carbon tetrafluoride               | fluorides   |
| fluorite  |                              | chlorofluoromethane                | difluorides                                       |
| GS        | calcium compounds            | polytetrafluoroethylene            |   |
| 03        | . fluorite                   | teflon (trademark)                 | fluorspar   |
|           |                              | organic compounds                  | metal fluorides                                   |
|           | halogen compounds            |                                    | calcium fluorides                                 |
|           | . fluorine compounds         | . fluorine organic compounds       |   |
|           | fluorite                     | fluorohydrocarbons                 | fluorspar   |
|           | minerals                     | carbon tetrafluoride               | metal halides                                     |
|           | . fluorite                   | chlorofluoromethane                | metal fluorides                                   |
|           | 1.                           | polytetrafluoroethylene            | calcium fluorides                                 |
|           | ompounds                     | teflon (trademark)                 | fluorspar   |
| GS        | halogen compounds            | . hydrocarbons                     | minerals  |
|           | . fluorine compounds         | fluorohydrocarbons                 | . fluorspar                                       |
|           | fluoro compounds             | carbon tetrafluoride               |   |
|           | cryolite                     | chlorofluoromethane                | flushing  |
|           | difluoro compounds           | polytetrafluoroethylene            | RT cleaning                                       |
|           | perfluoroalkane              | teflon (trademark)                 | ejection  |
|           | polytetrafluoroethylene      | RT fluorocarbons                   | elution   |
|           | teflon (trademark)           | freon                              | expellants  |
|           | fluorine organic compounds   | refrigerants                       | leaching  |
|           |                              | Tomgoranio                         | loading   |

purging MATERIAL OR PARTICLE RATE PER UNIT heat flux AREA)
The total emanation of energy, matepurification ∞ intensity separation irradiation rial or particles from a single source per unit venting level (quantity) time. Used for electron flux, neutron flux, and washing loudness particle flux. waste water mass distribution electron flux UF meteoroid concentration neutron flux particle flux fluting Onsager phenomenological coefficient USE grooving ∞ power GS rates (per time) power spectra . flux (rate) protons . . heat flux DEF An aeroelastic self excited vibration in ∞ radiation . . magnetic flux which the external source of energy is the radiation distribution . solar flux airstream and which depends on the elastic, radiation hazards beta particles inertial and dissipative forces of the system in remanence brightness addition to the aerodynamic forces. Used for scattering functions corpuscular radiation aerodynamic buzz and aeromagneto flutter. Solar Maximum Mission dosimeters aerodynamic buzz sound pressure electromagnetic radiation aeromagneto flutter spectra emittance x ray density measurement vibration energy . structural vibration field theory (physics) . . flutter flux difference splitting . . . panel flutter (added May 1995) flux density . . . subsonic flutter . . . supersonic flutter Roe flux difference splitting scheme gamma rays analysis (mathematics) ∞ intensity . numerical analysis . . transonic flutter level (quantity) . . flux difference splitting RT aerodynamic noise luminous intensity aerodynamic stability splitting flux difference splitting magnetic circuits aeroelastic research wings magnetic induction computational fluid dynamics aeroelasticity magnetostatics aeroservoelasticity finite difference theory particle beams airfoil oscillations ∞ flux particle diffusion bending flux vector splitting ∞ power bending vibration radiant flux density boundary layer control flux mapping ∞ radiation USE flux density buffeting Stefan-Boltzmann law compressibility effects mapping DAST program flux pinning flapping flux density DEF In superconductors, the interaction between the magnetic and the metallurgical microstructures. It controls the critical current density (LIMITED TO ENERGY, MATERIAL OR PARTICLE RATE PER UNIT AREA, THE QUANTITY USUALLY MEASURED-SE FLUX (RATE) FOR TOTAL EMANATION FROM A SINGLE SOURCE PER UNIT flight characteristics forced vibration hovering in a given superconducting material. hydrofoil oscillations TIME) GS pinning influence coefficient The flux (rate of flow) of any quantity, flux pinning missile vibration usually a form of energy, through a unit area of lines of force random vibration specified surface. (Note that this is not a volumagnetic flux resonant vibration metric density like radiant density.) Used for self induced vibration superconductivity density (rate/area), energy density, flux (rate per shaking trapped magnetic fields unit area), and flux mapping. trapping spacecraft motion density (rate/area) turbulence effects energy density flux (rate per unit area) flux pumps undamped oscillations Cryogenic DC generators. unsteady aerodynamics vibration simulators DEF flux mapping magnetic coils rates (per time) magnetic fields vibration tests flux density superconducting magnets vibrational stress . . current density superconductivity wing oscillations . . photon density . . radiant flux density flux quantization flutter analysis . . . irradiance RT ∞ flux GS structural analysis . . . . illuminance magnetic flux dynamic structural analysis solar constant superconductors (materials) . flutter analysis lumens aeroelastic research wings . . . luminous intensity flux transfer events airfoil oscillations (added July 1989) . illuminance structural vibration .... luminance GS magnetic properties unsteady aerodynamics particle flux density . magnetoactivity . . . . electron flux density . flux transfer events ∞ flux .... neutron flux density RT aeronomy (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN . . . . proton flux density geomagnetism LISTED BELOW) . . . radiance interplanetary magnetic fields The rate of flow of some quantity, often . . . radiancy lines of force used in reference to the flow of some form of ... solar flux density magnetic effects energy. In nuclear physics generally, the number .... solar constant magnetic field configurations of radioactive particles per unit volume times . . sound intensity magnetic field reconnection their mean velocity. . . zero sound magnetic fields flux (rate) alpha particles magnetic flux flux density angular distribution magnetopause flux difference splitting atom concentration magnetosphere-ionosphere coupling flux quantization density space plasmas fluxes dosimeters level (quantity) electromagnetic radiation flux vector splitting DEF The splitting of the nonlinear flux vectors of the conservation law form of the inviscid ∞ energy flux (rate per unit area) energy distribution USE flux density field intensity meters gasdynamic equations into subvectors by simifield strength larity transformations so that each subvector flux (rate) has associated with it a specified eigenvalue field theory (physics)

gamma ravs

(LIMITED TO THE TOTAL EMANATION OF ENERGY, MATERIAL OR PARTICLES FROM A SINGLE SOURCE PER UNIT TIME-SEE FLUX DENSITY FOR ENERGY,

spectrum.

GS

analysis (mathematics)

. numerical analysis

|           | flux vector splitting   | RT asteroid missions   | VZ-8 aircraft                                    |
|-----------|---|--|--|
|           | splitting   | Clementine spacecraft  |  |
|           | . flux vector splitting   | Deep Space 1 Mission   | flying qualities                                 |
| RT        | computation   | Galileo project  | USE flight characteristics                       |
|           | computational fluid dynamics  | Galileo spacecraft   | OSL Hight characteristics                        |
|           | eigenvalues   | interplanetary flight  |  |
|           | finite difference theory  | long duration space flight                                     | flying spot scanners                             |
|           | fluid dynamics  | lunar flight   | GS optical equipment                             |
|           | flux difference splitting   | Mariner Mark 2 Spacecraft                                      | . optical scanners                               |
|           | panel method (fluid dynamics)   | Mariner program  | flying spot scanners                             |
|           | vector analysis   | ∞ missions   | scanners   |
|           | vectors (mathematics)   | outer planets explorers  | . optical scanners                               |
|           | vortex lattice method   | space flight   | . flying spot scanners                           |
|           | vortex lattice metrica  | swingby technique  | RT display devices                               |
| fluxes    |   | TOPS (spacecraft)  | electron guns                                    |
| RT        | brazing   | ( )  | electron optics                                  |
|           | offux   | Vega project   | image tubes                                      |
| •         | limestone   | Voyager 2 spacecraft   | oscilloscopes                                    |
|           | soldering   | Voyager 2 spacecraft   | phototubes                                       |
|           | •   |  | picture tubes                                    |
|           | welding   | flying   | television equipment                             |
| florenate | 240   | USE flight   | video equipment                                  |
| fluxmete  |   | 3  | video equipment                                  |
| USE       | magnetic measurement  | El: 0 1: 1: %  |  |
|           | measuring instruments   | Flying Bedstead aircraft                                       | flying wing aircraft                             |
|           |   | USE flying platforms   | USE tailless aircraft                            |
| fly ash   |   |  |  |
| DEF       | Fine particulate, essentially noncom-                                     | Flying Crane helicopter  | flying wing configurations                       |
|           | refuse, carried in a gas stream from a                                    | USE H-17 helicopter  | flying wing configurations                       |
| furnace.  |   | COL II                     | (added April 2001)                               |
| GS        | ashes   |  | USE blended-wing-body configurations             |
|           | . fly ash   | flying ejection seats  |  |
| RT        | air pollution   | GS onboard equipment   | flywheels  |
|           | coal  | . aircraft equipment   | GS rotating bodies                               |
|           | combustion products   | ejection seats   | . rotors   |
|           | electric power plants   | flying ejection seats  | flywheels  |
|           | electrostatic precipitators   | safety devices   | wheels   |
|           | particulates  | . ejection seats   | . flywheels                                      |
|           | pollution control   | flying ejection seats  | RT balancing                                     |
|           | F   | seats  | counter-rotating wheels                          |
| flv bv li | ght control   | . ejection seats   | energy storage                                   |
|           | ed December 1992)   | flying ejection seats  |  |
|           | FBL control   | RT abort apparatus   | engine parts                                     |
|           | flight control  | aircraft safety  | mechanical engineering                           |
| 00        | . fly by light control  | bailout  | reaction wheels                                  |
| рт        |   |  |  |
| RT        | aircraft control  | cockpits   | FM (modulation)                                  |
|           | fiber optics  | ejectors   | USE frequency modulation                         |
|           | optical fibers  | escape capsules  |  |
|           | La control  | flight safety  |  |
|           | ube control   | jet engines  | FM/PM (modulation)                               |
|           | A fluidic flight control for aircraft in                                  | protection   | DEF Phase modulation of a carrier by sub-        |
|           | hydraulic control signal link connects the                                |  | carrier(s) which is (are) frequency modulated by |
|           | ontrols to the control surface actuators.                                 | flying in formation  | information.                                     |
| GS        | flight control  | (added October 2001)   | GS coding  |
|           | . fly by tube control   | USE formation flying   | . signal encoding                                |
| RT        | aircraft control  | ool romation hying   | frequency modulation                             |
| ~         | control   |  | FM/PM (modulation)                               |
|           | fluidic circuits  | flying personnel   | phase modulation                                 |
|           | hydraulic equipment   | GS personnel   | FM/PM (modulation)                               |
|           | servoamplifiers   | . flying personnel   | modulation                                       |
|           | ·   | astronauts   | . frequency modulation                           |
| fly by w  | rire control  | orbital workers  | FM/PM (modulation)                               |
| UF        | electric aircraft   | cosmonauts   | . phase modulation                               |
| GS        | flight control  | flight crews   | . FM/PM (modulation)                             |
|           | . fly by wire control   | spacecrews   | RT data transmission                             |
| RT        | aircraft control  | pilots (personnel)   |  |
| ~         | control   | aircraft pilots  |  |
|           | ground based control  | test pilots  | foaming  |
|           | spacecraft control  | RT flight fitness  | RT beneficiation                                 |
|           | opassoran sommer  | flight training  | flotation  |
| flyby m   | issions   | navigators   | foams  |
| DEF       |   | navigators   | metal foams                                      |
|           | passes close to the target planet but                                     |  | ∞ separation                                     |
|           |   | flying platform stability                                      | surface properties                               |
|           | t impact it or go into orbit around it.                                   | USE aerodynamic stability                                      | swirling   |
| GS        | space missions  | flying platforms   | wetting  |
|           | . flyby missions  | ,  | 9  |
|           | Giotto mission  | flying platfaces   |  |
|           | Grand Tours   | flying platforms   | foams  |
|           | Mariner Jupiter-Saturn flyby  | UF Flying Bedstead aircraft                                    | UF cellular materials (non biological)           |
|           | Mariner Jupiter-Uranus flyby  | flying platform stability                                      | GS foams   |
|           | Voyager 1977 mission  | GS V/STOL aircraft   | . metal foams                                    |
|           | Comet Nucleus Tour  | . vertical takeoff aircraft                                    | RT aerogels                                      |
|           | Comet Rendezvous Asteroid Flyby   | flying platforms   | bubbles  |
|           | Mission   | RT ∞ aircraft  | colloids   |
|           | IVIISSIOTI  |  |  |
|           | Deep Impact Mission   | ground effect machines   | explosion suppression                            |
|           | Deep Impact Mission   | ground effect machines   |  |
|           | Deep Impact Mission<br>Mariner Venus-Mercury 1973                         | ground effect machines jet aircraft                            | fire extinguishers                               |
|           | Deep Impact Mission<br>Mariner Venus-Mercury 1973<br>Mariner-Mercury 1973 | ground effect machines<br>jet aircraft<br>observation aircraft | fire extinguishers<br>fire fighting              |
|           | Deep Impact Mission<br>Mariner Venus-Mercury 1973                         | ground effect machines jet aircraft                            | fire extinguishers                               |

∞ subsonic aircraft

polyurethane foam

. . Stardust Mission

|          | styrofoam (trademark)  |                      | visibility  |                | . sailwings  |
|----------|--|----------------------|---|----------------|--|
| f11      |  | fog die              | nornal  | RT             | antennas   |
|          | ane arrays focal plane devices   | fog dis<br>GS        | weather modification  |                | balloons<br>ballutes   |
| USL      | local plane devices  | 00                   | . fog dispersal   |                | expandable structures  |
| focal pl | ane devices  | RT                   | aerosols  |                | furlable antennas  |
|          | Radiation sensitive devices positioned   |                      | climatology   |                | inflatable space structures  |
|          | ocal area of electromagnetic detectors.  |                      | cloud physics   |                | inflatable structures  |
|          | r focal plane arrays.  |                      | clouds (meteorology) dispersing                               |                | paddles  |
| UF<br>RT | focal plane arrays<br>arrays   |                      | dispersions   |                | parachutes<br>paragliders  |
| IXI      | charge coupled devices   |                      | mist  |                | parawings  |
|          | infrared detectors   |                      | precipitation (meteorology)                                   |                | rotary wings   |
|          | linear arrays  | 6.91                 | *   |                | space erectable structures   |
|          | mosaics  | foil bea             | i <b>rings</b><br>bearings                                    |                | spacecraft structures  |
|          | photodiodes  | 00                   | . foil bearings   | ~              | <ul> <li>structures</li> <li>variable geometry structures</li> </ul>                                   |
|          | quantum well infrared photodetectors   | RT                   | gas bearings  |                | variable sweep wings   |
| foci     |  |                      | journal bearings  |                | go   |
| GS       | foci   | 6.9.                 |   | folds (g       | jeology)   |
|          | . plasma focus   | ∞ <b>foils</b><br>SN | (LISE OF A MODE SPECIFIC TERM IS                              |                | Curves or bends of a planar structure  |
| RT ∘     | centers  | SIN                  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS |                | rock strata, bedding planes, foliation, or   |
|          | focusing   | DT                   | LISTED BELOW)   |                | <ul> <li>Folds are usually a product of defor-<br/>although their definition is descriptive</li> </ul> |
|          | geometry<br>loci   | RT                   | airfoils<br>foils (materials)                                 |                | genetic and may include primary struc-   |
| 0        | optics   |                      | hydrofoils  |                | sed for nappes.  |
|          | points (mathematics)   |                      | multilayer insulation   | UF             | nappes   |
|          | resolution   |                      | •   | RT             | Earth crust  |
|          |  |                      | aterials)   |                | fissures (geology)   |
| focusin  | •  | GS                   | foils (materials) . metal foils                               |                | geological faults<br>Great Basin (US)  |
| GS       | focusing   | RT                   | airfoils  | ~              | layers   |
|          | . defocusing . prefocusing   |                      | o foils   |                | outcrops   |
|          | . self focusing  |                      | hydrofoils  |                | rocks  |
| RT       | accommodation  | c                    | o materials   |                | seamounts  |
|          | adjusting  |                      | multilayer insulation   |                | strata   |
|          | astigmatism  |                      | thin plates   |                | stratification   |
|          | cameras  | Fokker               | aircraft  | foliage        |  |
|          | distance<br>foci   |                      | Fokker aircraft   | RT             | brown wave effect  |
|          | Fresnel lenses   |                      | . F-27 aircraft   |                | canopies (vegetation)  |
|          | geometrical optics   |                      | . F-28 transport aircraft                                     |                | deciduous trees  |
|          | gravitational lenses   | RT •                 | ∘ aircraft  |                | defoliants   |
|          | image contrast   | Fokker               | bond testers  |                | green wave effect  |
|          | image enhancement  |                      | adhesion tests  |                | herbicides<br>leaves   |
|          | laser cutting laser drilling   |                      |   |                | locusts  |
|          | lenses   |                      | F 27 aircraft   |                | plants (botany)  |
|          | panoramic cameras  | USE                  | F-27 aircraft   |                | timber vigor   |
|          | solar reflectors   | Fokker               | F 28 aircraft   |                |  |
|          | steering   |                      | F-28 transport aircraft                                       | folic ac<br>UF | vitamin M  |
|          | stigmatism   |                      |   | GS             | acids  |
|          | thermal lensing vignetting   |                      | Friendship aircraft   | 00             | . amino acids  |
|          | vignetting   | USE                  | F-27 aircraft   |                | folic acid   |
| foetuses | 8  | Eakkar               | Planck equation   |                | . carboxylic acids   |
|          | fetuses  | GS                   | analysis (mathematics)  |                | . folic acid   |
|          |  |                      | . real variables  |                | nitrogen compounds<br>. f <b>olic acid</b>   |
| fog      |  |                      | differential equations  |                | organic compounds  |
|          | A loose term applied to visible aerosols   |                      | partial differential equations                                |                | . amino acids  |
|          | the dispersed phase is liquid. Formation ensation is usually implied. In meteorol- | DT                   | Fokker-Planck equation  |                | folic acid   |
| ,        | ispersion of water or ice.   | RT                   | Boltzmann transport equation Brownian movements               |                | . carboxylic acids   |
|          | mixtures   |                      | density distribution  |                | folic acid   |
|          | . dispersions  |                      | diffusion theory  |                | . cyclic compounds heterocyclic compounds  |
|          | colloids   | c                    | o equations   |                | folic acid   |
|          | aerosols   |                      | ionized gases   |                | vitamins   |
|          | f <b>og</b><br>liquid-gas mixtures   |                      | stochastic processes  |                | . folic acid   |
|          | aerosols   | folding              |   |                |  |
|          | fog  | UF                   | crimping  | ∞ food         |  |
|          | particles  | RT                   | bending   | SN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   |
|          | . aerosols   |                      | binding   |                | LISTED BELOW)  |
| DT       | fog  |                      | curl (materials)  | RT             | alfalfa  |
| RT       | anvil clouds aviation meteorology  |                      | distortion<br>flexing   |                | barley<br>beverages  |
|          | cirrocumulus clouds  |                      | kinking   |                | broths   |
|          | cirrostratus clouds  |                      | •   |                | caloric requirements   |
|          | clouds (meteorology)   |                      | Fin aircraft rocket vehicle                                   |                | canning  |
|          | drop size  |                      | FFAR rocket vehicle   |                | carbohydrates  |
|          | haze   | GS                   | rocket vehicles   |                | citrus trees   |
|          | haze detection<br>hydrometeors   | RT ~                 | . Folding Fin aircraft rocket vehicle ∘ aircraft              |                | consumables (spacecrew supplies) corn  |
|          | mist   | 1/1 0                | solid propellant rocket engines                               |                | decontamination  |
|          | precipitation (meteorology)  |                      |   |                | dehydrated food  |
|          | smog   |                      | structures  |                | diets  |
|          | smoke  | UF                   | Rogallo wings   |                | digesting  |
|          | steam<br>stratus clouds  | GS                   | telescoping structures folding structures                     |                | distributing Earth resources   |
|          |  |                      |   |                |  |

| eating   | wave equations   | placements in a variety of disciplines.             |
|--|--|---|
| eggs   |  | GS measuring instruments                            |
| fats   | forbidden transitions  | . force vector recorders                            |
| fishes   | RT electron transitions  | recording instruments                               |
| flour (food)                                     | Franck-Condon principle  | . force vector recorders                            |
| food chain                                       | quantum theory   | RT ∞ instruments                                    |
| food production (in space)                       | selection rules (nuclear physics)                                  |   |
| frozen foods                                     | ∞ solid state physics  | forced convection                                   |
| fruits   | ∞ transition   | GS convection                                       |
| gelatins   | wave functions   | . forced convection                                 |
| hay  |  | RT blowing  |
| leguminous plants                                | Forbush decreases  | convective heat transfer                            |
| milk .   | DEF The observed decreases in cosmic ray                           | free convection                                     |
| millet   | activity in the Earth's atmosphere about a day                     | heat transfer                                       |
| nutrition  | after a solar flare. Used for Forbush effect.                      | laminar flow  |
| oats   | UF Forbush effect  | Prandtl number                                      |
| orchards   | RT cosmic rays   | Rayleigh-Benard convection                          |
| peppers  | ∞ effects  | Stanton number                                      |
| potatoes   | magnetic storms  |   |
| preserving                                       | solar flares   | forced oscillation                                  |
| proteins   | solar furnaces   | USE forced vibration                                |
| provisioning                                     | solar storms   |   |
| rations  | Fash walk affect   | forced vibration                                    |
| services   | Forbush effect   | DEF An oscillation of a system in which the         |
| soybeans   | USE Forbush decreases  | response is imposed by the excitation. If the       |
| space flight feeding                             | ∞ force  | excitation is periodic and continuing, the oscilla- |
| space rations                                    |  | tion is steady state. Used for forced oscillation   |
| spinach  | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS | and forced vibratory motion equations.              |
| starches   | LISTED BELOW)  | UF forced oscillation                               |
| sugar cane                                       | DEF The cause of the acceleration of mate-                         | forced vibratory motion equations                   |
| sugars   | rial bodies measured by the rate of change of                      | GS vibration  |
| synthetic food                                   | momentum produced on a free body. Used for                         | . forced vibration                                  |
| tomatoes   | repulsion.   | RT flutter  |
| vegetables                                       | UF repulsion   | free vibration                                      |
| vineyards  | RT acceleration (physics)  | random vibration                                    |
| vitamins   | aerodynamic forces   | self excitation                                     |
| yeast  | attraction   | self induced vibration                              |
|  | centrifugal force  |   |
| food chain                                       | centripetal force  | forced vibratory motion equations                   |
| DEF The scheme of feeding relationships          | electric field strength  | USE equations                                       |
| by trophic levels which unites member species    | high impulse   | forced vibration                                    |
| of a biological community.                       | inertia  |   |
| RT animals                                       | kinetics   | force-free magnetic fields                          |
| ecosystems                                       | lines of force   | GS magnetic fields                                  |
| ∞ food   | loads (forces)   | force-free magnetic fields                          |
| ∞ lood plants (botany)                           | Lorentz force  | RT magnetic field configurations                    |
| plants (botally)                                 | newton   | magnetic flux                                       |
|  | nonconservative forces   | magnetohydrodynamic stability                       |
| food intake                                      | null zones   | solar flares  |
| RT fasting                                       | ponderomotive forces   | solar magnetic field                                |
| space flight feeding                             | pressure   | £   |
| synthetic food                                   | pulling  | forearm   |
|  | pushing  | GS anatomy  |
| food processing                                  | thrust   | . limbs (anatomy)                                   |
| DEF The transformation of foodstuffs into        | thrust measurement   | arm (anatomy)                                       |
| forms for easy packaging, greater palatability,  | torque   | forearm   |
| longer storage, etc.                             | torsion  | appendages  |
| GS food processing                               | Van der Waals forces   | . arm (anatomy)                                     |
| . canning  | weight (mass)  | forearm   |
| . preserving                                     | zero force curves  | farabadiaa  |
| RT dehydrated food                               | fana diatributian  | forebodies<br>GS forebodies                         |
| frozen foods                                     | force distribution   |   |
| ∞ processing                                     | UF lift distribution   | . noses (forebodies) nose cones                     |
| . 3  | normal force distribution  | ablative nose cones                                 |
| food production (in space)                       | GS distribution (property)   | rocket nose cones                                   |
| , ,  | . force distribution   | RT afterbodies                                      |
| RT closed ecological systems                     | RT aerodynamic coefficients  | aircraft structures                                 |
| consumables (spacecrew supplies)                 | aerodynamic loads  | bluff bodies  |
| ∞ food   | angular distribution   | blunt bodies  |
| ∞ production                                     | charge distribution  | blunt leading edges                                 |
| space flight feeding                             | energy distribution  | ∞ bows  |
| space rations                                    | influence coefficient  | centerbodies  |
|  | lift drag ratio  | cylindrical bodies                                  |
| footprints                                       | loads (forces)   | hammerhead configuration                            |
| DEF Ground patterns or contours of an            | mass distribution  | leading edges                                       |
| acoustical or microwave nature that are predict- | moment distribution  | sharp leading edges                                 |
| able and measurable.                             | scale effect   | Sharp leading edges                                 |
| RT aircraft noise                                | stress concentration<br>stress distribution                        | forecasting   |
| antenna radiation patterns                       |  | UF forecasts  |
| mathematical models                              | stress intensity factors   | GS predictions                                      |
|  | sweep effect   | . forecasting                                       |
| forbidden bands                                  | thrust distribution  | technological forecasting                           |
| GS energy bands                                  | transverse loads   | Delphi method (forecasting)                         |
| . forbidden bands                                | wing loading   | Delphi method (forecasting)                         |
| RT band structure of solids                      | force fields   | pattern method (forecasting)                        |
| ∞ bands  | USE field theory (physics)   | probe method (forecasting)                          |
| electron energy                                  | OOL HEID HEDLY (PHYSICS)   | weather forecasting                                 |
| free electrons                                   | force vector recorders   | long range weather forecasting                      |
| lattice vibrations                               | DEF Instrumentation for recording force dis-                       | nowcasting  |
| IGUIOC VIDIGUOTIS                                | DEI Instrumentation for recording force dis-                       | 11000000011119                                      |

|   | numerical weather forecasting  |                            | ashes  |                            | series (mathematics)   |
|---|--|----------------------------|--|----------------------------|--|
|   | statistical weather forecasting  |                            | biomass burning  |                            | square waves   |
|   | analyzing  |                            | combustion   |                            | transducers  |
|   | oudgeting<br>confidence limits   |                            | fire prevention firebreaks   | ~                          | ∘ variable<br>waveforms  |
|   | correlation  |                            | flames   |                            | x ray scattering   |
|   | curve fitting  |                            | forests  |                            | 3  |
| 6   | estimates  |                            | smoke  |                            | rception   |
|   | estimating   |                            | wastes   | USE                        | space perception   |
|   | evaluation   | forcet n                   | nanagement   | formald                    | lehvde   |
|   | expectation<br>extrapolation   | GS                         | management   | GS                         |  |
|   | nindcasting  |                            | . resources management   |                            | . formaldehyde   |
|   | nanagement   |                            | forest management  | RT                         | phenol formaldehyde  |
|   | nanagement methods   |                            | reforestation  | formalis                   | em   |
|   | nanagement planning  | RT                         | conservation   | RT                         | computer programming   |
|   | nathematical models<br>naximum likelihood estimates  |                            | Earth resources forests  |                            | dynamic programming  |
|   | nission planning   |                            | land use   |                            | hardware description languages   |
|   | noise prediction (aircraft)  |                            | regional planning  |                            | linear programming   |
|   | perations research   |                            | timber inventory   | ~                          | o logic  |
|   | planning   |                            |  |                            | nonlinear programming parameterization   |
|   | probability theory   | forests                    | lumbaring areas  |                            | programming languages  |
|   | project planning   | UF<br>GS                   | lumbering areas<br>resources   |                            | programming languages  |
|   | projection<br>egression analysis   | 65                         | . Earth resources  | format                     |  |
|   | egression coefficients   |                            | forests  | RT                         | computer programming   |
|   | eliability   |                            | rain forests   |                            | documents  |
|   | eserves  | RT                         | Amazon region (South America)  |                            | editing  |
|   | isk  |                            | canopies (vegetation)  |                            | frames (data processing) printouts   |
|   | scheduling   |                            | clearings (openings)   |                            | records  |
|   | statistical analysis   |                            | conifers<br>conservation   |                            | syntax   |
|   | statistical distributions<br>systems engineering   |                            | deciduous trees  |                            | texts  |
|   | ime series analysis  |                            | defoliants   |                            |  |
|   | rends  |                            | defoliation  | formate                    |  |
|   |  |                            | deforestation  | GS                         | formates . chloroformate   |
| forecasts   |  |                            | firebreaks   |                            | . nitroformates  |
| USE f   | orecasting   |                            | forest fires   | RT                         | formic acid  |
| forehead  |  |                            | forest management herbicides   |                            | formyl ions  |
|   | anatomy  |                            | logging (industry)   |                            | •  |
|   | face (anatomy)   |                            | plants (botany)  | ∞ formati                  |  |
|   | . forehead   |                            | reforestation  | SN                         | (USE OF A MORE SPECIFIC TERM IS RECOMMENDED CONSULT THE  |
| RT ł  | nead (anatomy)   |                            | regional planning  |                            | TERMS LISTED BELOW)  |
| 5   | skull  |                            | silviculture   | RT                         | formations   |
| foreign b   | adiaa  |                            | timber identification  |                            | growth   |
| foreign b   | aircraft hazards   |                            | timber inventory timber vigor  |                            | nucleation<br>stratigraphy   |
|   | oodies   |                            | timber vigor   |                            | Stratigraphy   |
|   | njuries  |                            | trees (plants)   | formation                  | on flying  |
| r   | neteorites   |                            | wilderness   |                            | ed October 2001)   |
|   |  |                            |  |                            | Coordinated and closely synchronized   |
| foreign p   | •  | forging                    | mandal familian  |                            | two or more aircraft or spacecraft in a  |
|   | policies<br>foreign policy   | UF<br>GS                   | metal forging  |                            | y close spatial configuration.  flying in formation  |
|   | . international relations  | 93                         | forming techniques . forging   | GS                         | positioning  |
|   | international cooperation  |                            | metal working  |                            | . formation flying   |
|   | outer space treaty   |                            | . forging  | RT                         | aerobatics   |
|   | oudgets  | RT                         | ausforming   |                            | air navigation   |
|   | European space programs  |                            | billets  |                            | aircraft maneuvers   |
| ı   | nternational Hydrological Decade   |                            | bulging  | ~                          | ∘ flight<br>flight control   |
| foreign tra   | ade  |                            | casting coining  |                            | orbital maneuvers  |
|   | nternational trade   |                            | cold working   |                            | satellite constellations   |
|   |  |                            | heat treatment   |                            | satellite control  |
| forensic s  |  |                            |  |                            | satellite networks   |
|   |  |                            | hot isostatic pressing   |                            |  |
| USE I   | ciences<br>aw (jurisprudence)  |                            | hot isostatic pressing hot pressing  |                            | space navigation   |
|   | aw (jurisprudence)   |                            | hot isostatic pressing<br>hot pressing<br>hot working  |                            | space navigation spacecraft control  |
| forest fire   | aw (jurisprudence)<br>e detection  |                            | hot isostatic pressing<br>hot pressing<br>hot working<br>piercing  |                            | space navigation<br>spacecraft control<br>spacecraft guidance  |
| forest fire   | aw (jurisprudence)   |                            | hot isostatic pressing<br>hot pressing<br>hot working<br>piercing<br>pressing (forming)  |                            | space navigation<br>spacecraft control<br>spacecraft guidance<br>spacecraft maneuvers  |
| forest fire   | aw (jurisprudence)<br>e detection<br>detection   | ~                          | hot isostatic pressing<br>hot pressing<br>hot working<br>piercing<br>pressing (forming)<br>rheocasting   |                            | space navigation<br>spacecraft control<br>spacecraft guidance  |
| forest fire<br>GS o<br>RT a   | aw (jurisprudence) e detection detection forest fire detection   | ∝                          | hot isostatic pressing<br>hot pressing<br>hot working<br>piercing<br>pressing (forming)  | formatio                   | space navigation<br>spacecraft control<br>spacecraft guidance<br>spacecraft maneuvers<br>stationkeeping  |
| forest fire<br>GS 0<br>RT a   | aw (jurisprudence) e detection letection forest fire detection lerial photography letectors letectors  | α                          | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling  | formatio<br>USE            | space navigation<br>spacecraft control<br>spacecraft guidance<br>spacecraft maneuvers<br>stationkeeping  |
| forest fire<br>GS c<br>RT a<br>∞ c<br>h                                     | aw (jurisprudence) e detection letection forest fire detection aerial photography letectors laze detection nfrared detectors   |                            | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rrolling squeeze casting   | USE                        | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation  |
| forest fire<br>GS c<br>RT a<br>∞ c<br>h<br>i                                | aw (jurisprudence) e detection letection forest fire detection aerial photography letectors naze detection nfrared detectors nfrared instruments   | forks                      | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping   | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation  |
| forest fire GS c RT a   | aw (jurisprudence)  e detection detection forest fire detection derial photography detectors laze detection infrared detectors infrared instruments infrared photography   |                            | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors  | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation ons contacts (geology)   |
| forest fire GS c RT a  ∞ c r i i  | aw (jurisprudence)  e detection detection forest fire detection derial photography detectors detection forared detection forared detectors forared instruments forared photography forared radiometers   | forks                      | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping   | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation  ons contacts (geology) of formation   |
| forest fire GS C RT a   | aw (jurisprudence)  e detection detection forest fire detection derial photography detectors laze detection infrared detectors infrared instruments infrared photography   | forks                      | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors  | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation ons contacts (geology)   |
| forest fire GS C RT a  ∞ C  i  i  i  r                                      | aw (jurisprudence)  e detection detection forest fire detection herial photography detectors haze detection hirared detectors hirared instruments hirared photography hirared radiometers hirared scanners   | forks<br>RT                | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors  | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation ons contacts (geology) formation fracturing  |
| forest fire GS c RT c i i i i r   | aw (jurisprudence)  e detection detection forest fire detection derial photography detectors laze detection infrared detectors infrared photography infrared radiometers infrared scanners ineasuring instruments beservation adiometers   | forks<br>RT<br>form<br>USE | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors hooks  shapes  | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping on heat heat of formation ons contacts (geology) formation fracturing gas injection geological faults geology  |
| forest fire GS C RT & C C C C C C C C C C C C C C C C C C C                 | aw (jurisprudence)  e detection detection forest fire detection derial photography detectors haze detection nfrared detectors harrared instruments harrared radiometers harrared scanners hazenessessessessessessessessessessessesses  | forks<br>RT<br>form<br>USE | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors hooks  shapes etors  | USE<br>formation           | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping  on heat heat of formation  contacts (geology) formation fracturing gas injection geological faults geology geophysics   |
| forest fire GS C RT & C C C C C C C C C C C C C C C C C C C                 | aw (jurisprudence)  e detection detection forest fire detection derial photography detectors laze detection infrared detectors infrared photography infrared radiometers infrared scanners ineasuring instruments beservation adiometers   | forks<br>RT<br>form<br>USE | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors hooks  shapes ctors approximation  | USE<br>formatie<br>RT<br>~ | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping  In heat heat of formation  Conscious (geology) formation fracturing gas injection geological faults geology geophysics Great Basin (US)   |
| forest fire GS C RT a  ©C P  i i i i c C F  C C C C C C C C C C C C C C C C | aw (jurisprudence)  e detection letection forest fire detection derial photography letectors maze detection infrared detectors infrared instruments infrared photography infrared radiometers infrared scanners ineasuring instruments abservation adiometers itatellite-borne photography surveillance  | forks<br>RT<br>form<br>USE | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors hooks  shapes ctors approximation coupling coefficients                      | USE<br>formatie<br>RT<br>~ | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping  In heat heat of formation  In spacecraft maneuvers stationkeeping  In heat heat of formation  In spacecraft maneuvers stationkeeping  In heat heat of formation  In part of |
| forest fire  GS C  RT C  RT C  I  I  I  I  I  I  I  I  I  I  I  I  I        | aw (jurisprudence)  detection detection detection derial photography detectors defection derial photography defectors defection derial detectors defection defec | forks<br>RT<br>form<br>USE | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors hooks  shapes  ctors approximation coupling coefficients functional analysis | USE<br>formatie<br>RT<br>~ | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping  In heat heat of formation  In secondary (geology) In formation  In fracturing gas injection geological faults geology geophysics Great Basin (US) In layers mountains   |
| GS C<br>RT a c<br>c c c c c c c c c c c c c c c c c c                       | aw (jurisprudence)  e detection letection forest fire detection derial photography letectors maze detection infrared detectors infrared instruments infrared photography infrared radiometers infrared scanners ineasuring instruments abservation adiometers itatellite-borne photography surveillance  | forks<br>RT<br>form<br>USE | hot isostatic pressing hot pressing hot working piercing pressing (forming) rheocasting rolling squeeze casting stamping  conveyors hooks  shapes ctors approximation coupling coefficients                      | USE<br>formatie<br>RT<br>~ | space navigation spacecraft control spacecraft guidance spacecraft maneuvers stationkeeping  In heat heat of formation  In spacecraft maneuvers stationkeeping  In heat heat of formation  In spacecraft maneuvers stationkeeping  In heat heat of formation  In part of |

|          | perforating                  |          | data acquisition                | RT       | backward facing steps                        |
|----------|------------------------------|----------|---------------------------------|----------|--|
|          |                              |          | data doquiotion                 |          | <b>.</b>                                     |
|          | permeability                 |          |                                 |          | boundary layer flow                          |
|          | petrology                    | ∞ formul | as                              |          | separated flow                               |
|          |                              | SN       | (USE OF A MORE SPECIFIC TERM IS |          |  |
|          | porosity                     | OIV      | RECOMMENDEDCONSULT THE TERMS    |          |  |
|          | rocks                        |          |                                 | forward  | looking infrared detectors                   |
|          | shatter cones                | DT       | LISTED BELOW)                   |          | FLIR detectors                               |
|          |                              | RT       | computation                     | USL      | FLIN detectors                               |
|          | soils                        |          | formulas (mathematics)          |          |  |
|          | stairsteps                   |          |                                 | forward  | I scattering                                 |
|          |                              |          | formulations                    |          |  |
|          | stratigraphy                 |          | Kramers-Kronig formula          | DEF      | The scattering of radiant energy int         |
|          | terraces (landforms)         |          | 3                               | the hen  | nisphere of space bounded by a plan-         |
|          |                              |          |                                 |          |  |
|          | wettability                  | tormul   | as (mathematics)                | normal   | to the direction of the incident radiatio    |
|          |                              | UF       | expressions (mathematics)       | and lyin | g on the side toward which the incider       |
|          |                              |          |                                 |          |  |
| formhy   | droxamic acid                | GS       | mathematical logic              | radiatio | n was advancing; the opposite of back        |
|          |                              |          | . formulas (mathematics)        | ward so  | atter.                                       |
| GS       | acids                        |          |                                 |          |  |
|          | . carboxylic acids           |          | Bethe-Heitler formula           | GS       | scattering                                   |
|          |                              | RT ·     | ∞ formulas                      |          | . forward scattering                         |
|          | formhydroxamic acid          |          | ∞ mathematics                   | RT       | backscattering                               |
|          | nitrogen compounds           | •        | ∞ mamemanos                     | I N      | 3  |
|          | . amides                     |          |                                 |          | inverse scattering                           |
|          |                              | formul   | ations                          |          | light scattering                             |
|          | formhydroxamic acid          |          |                                 |          |  |
|          | organic compounds            | KI       | admixtures                      |          | nuclear scattering                           |
|          |                              |          | ∞ composition                   |          | scatter propagation                          |
|          | . carboxylic acids           |          | •                               |          | Scatter propagation                          |
|          | formhydroxamic acid          | •        | ∞ formulas                      |          |  |
|          | lommy ar oxamilo aoia        |          | ingredients                     | fossil f | alais  |
|          |                              |          | mixtures                        |          |  |
|          |                              |          |                                 | DEF      | A general term for any hydrocarbon           |
| formic   | acid                         |          | parameterization                | that ma  | be used for fuel; chiefly petroleum          |
|          |                              |          | stoichiomotry                   |          |  |
| GS       | acids                        |          | stoichiometry                   | naturai  | gas, and coal.                               |
|          | . carboxylic acids           |          |                                 | GS       | fuels  |
|          | formio gold                  | formyl   | ions                            |          |  |
|          | formic acid                  |          |                                 |          | . chemical fuels                             |
|          | organic compounds            | GS       | ions                            |          | hydrocarbon fuels                            |
|          | . carboxylic acids           |          | . molecular ions                |          |  |
|          |                              |          |                                 |          | fossil fuels                                 |
|          | formic acid                  |          | formyl ions                     |          | coal   |
| RT       | formates                     |          | . positive ions                 |          |  |
| 111      |                              |          |                                 |          | anthracite                                   |
|          | formyl ions                  |          | cations                         |          | lignite                                      |
|          | •                            |          | formyl ions                     |          | solvent refined coal                         |
|          |                              |          |                                 |          | Solverit relineu coal                        |
| f =! = - |                              |          | radicals                        |          | crude oil                                    |
| formica  | 1                            |          | . formyl ions                   |          | natural gas                                  |
| RT       | laminates                    | DT       | •                               |          |  |
|          |                              | RT       | atmospheric chemistry           |          | liquefied natural gas                        |
| 0        | ∞ polymers                   |          | formates                        |          | peat   |
|          | thermosetting resins         |          | formic acid                     |          | *  |
|          | · ·                          |          |                                 |          | shale oil                                    |
|          |                              |          | hydroxyl radicals               |          | resources                                    |
| £        |                              |          | interstellar chemistry          |          |  |
| torming  | g techniques                 |          |                                 |          | . Earth resources                            |
| SN       | (TECHNIQUES OF SHAPING ITEM) |          | interstellar matter             |          | fossil fuels                                 |
| ŪF       | metal forming                |          |                                 |          |  |
|          |                              | forster  | ite                             |          | coal   |
| GS       | forming techniques           |          |                                 |          | anthracite                                   |
|          | . casting                    | GS       | magnesium compounds             |          | lignite                                      |
|          |                              |          | . forsterite                    |          |  |
|          | centrifugal casting          |          |                                 |          | solvent refined coal                         |
|          | investment casting           |          | minerals                        |          | crude oil                                    |
|          | S S                          |          | . olivine                       |          |  |
|          | propellant casting           |          |                                 |          | natural gas                                  |
|          | rheocasting                  |          | forsterite                      |          | liquefied natural gas                        |
|          |                              |          | silicon compounds               |          |  |
|          | sand casting                 |          |                                 |          | peat   |
|          | slip casting                 |          | . silicates                     |          | shale oil                                    |
|          | squeeze casting              |          | forsterite                      | DT       |  |
|          |                              | DT       |                                 | RT       | carbonaceous materials                       |
|          | . cold working               | RT       | refractories                    |          | underwater resources                         |
|          | cold rolling                 |          |                                 |          |  |
|          |                              | Forth (  | programming language)           |          |  |
|          | electrohydraulic forming     |          |                                 | fossil m | eteorite craters                             |
|          | explosive forming            | (add     | led December 1992)              |          |  |
|          |                              | ĠS       | languages                       | USE      | fossils                                      |
|          | . electroforming             | 00       |                                 |          | meteorite craters                            |
|          | . extruding                  |          | . programming languages         |          |  |
|          |                              |          | Forth (programming language)    |          |  |
|          | pultrusion                   | DT       |                                 | fossils  |  |
|          | . forging                    | RT       | computer programming            | DEF      | Remains, traces, or imprints of an or        |
|          | . hot working                |          |                                 |          |  |
|          | 9                            | Fortice  | n (trademark)                   | ganism   | preserved in the Earth's crust sometime      |
|          | ausforming                   |          |                                 |          | ,<br>geologic past. Used for fossil meteorit |
|          | . injection molding          | GS       | biopolymers                     |          | ,  |
|          |                              |          | . polysaccharides               | craters. |  |
|          | . magnetic forming           |          | 1 7                             | UF       | fossil meteorite craters                     |
|          | . metal drawing              |          | cellulose                       |          |  |
|          |                              |          | Fortisan (trademark)            | RT       | archaeology                                  |
|          | . metal spinning             |          |                                 |          | paleobiology                                 |
|          | hydrospinning                |          | fabrics                         |          | paleontology                                 |
|          |                              |          | . Fortisan (trademark)          |          | 1 07   |
|          | . pressing (forming)         |          |                                 |          | particle tracks                              |
|          | blanking (cutting)           |          | fibers                          |          | •  |
|          |                              |          | . synthetic fibers              |          | radioactive age determination                |
|          | coining                      |          | •                               |          |  |
|          | hot pressing                 |          | Fortisan (trademark)            | Foster   | theory                                       |
|          |                              |          | organic compounds               |          | •  |
|          | stamping                     |          |                                 | RT       | network analysis                             |
|          | hot isostatic pressing       |          | . carbohydrates                 |          | reactance                                    |
|          | . resin transfer molding     |          | polysaccharides                 |          |  |
|          |                              |          | cellulose                       |          | resonance                                    |
|          | . roll forming               |          |                                 | _        | • theories                                   |
| DT.      | ∞ blanking                   |          | Fortisan (trademark)            | ۰        | - 111001103                                  |
| L/I o    |                              | RT       | parachute fabrics               |          |  |
|          | cutting                      | I/I      | paraonute iabilios              | fouling  |  |
|          | deposition                   |          |                                 | fouling  |  |
|          | •                            | FORTE    | AN                              | GS       | fouling                                      |
|          | electromagnetic hammers      |          |                                 |          | . antifouling                                |
|          | hot machining                | UF       | 11 0 0 0 7                      |          |  |
|          |                              | GS       | languages                       | RT       | biofilms                                     |
|          | laser cutting                |          | 5 5                             |          | contamination                                |
|          | machining                    |          | . programming languages         |          |  |
|          |                              |          | FORTRAN                         |          | corrosion                                    |
|          | metal grinding               | DT       |                                 |          | deposition                                   |
|          | metal working                | RT       | Cobol                           |          |  |
|          |                              |          | compilers                       |          | ice formation                                |
|          | spraying                     |          | •                               |          | plugging                                     |
|          | upsetting                    |          | computer programming            |          |  |
|          | . •                          |          | PI /1                           |          | retarding                                    |

forward facing steps (added December 1995) foundations UF bases (foundations)

forms (paper) RT blanks

structural foundations . fast Fourier transformations retort processing GS foundations transformations (mathematics) separation pile foundations . integral transformations solvent refined coal RT basements . . Fourier transformation . fast Fourier transformations ∞ bases fractions (EXCLUDES MATHEMATICAL CONCEPTS) **BBGKY** hierarchy caissons Gabor transformation concrete structures RT ∞ components excavation holographic spectroscopy fines geotechnical engineering maximum entropy method particle size distribution overconsolidation Walsh function ratios ∞ pad wavelet analysis pavements fractography Fourier-Bessel transformations skirts imagery GS analysis (mathematics) structural members . photography ∞ structures . calculus fractography . Fourier-Bessel transformations substructures brittleness supports . functional analysis crack closure underground structures . . integral transformations crack geometry . . . Fourier-Bessel transformations crack propagation foundries . real variables ductility GS industrial plants . Fourier-Bessel transformations Elber equation foundries functions (mathematics) fatigue (materials) fractures (materials) Fourier-Bessel transformations RT furnaces ∞ metallurgy transformations (mathematics) ∞ metallurgy . integral transformations molds . Fourier-Bessel transformations fracture mechanics four body problem differential equations UF fault mechanics RT celestial mechanics series (mathematics) Mohr circles bend tests many body problem orbits four-wave mixing burst tests perturbation (added April 1992) caustics (optics) ∞ problems conjugation phase conjugation crack bridging three body problem crack closure . four-wave mixing crack initiation Fourier analysis atom optics DEF The representation of physical or mathematical data by the use of the Fourier series of Fourier integral. crack opening displacement coherent light collimation crack propagation Elber equation laser beams analysis (mathematics)
. Fourier analysis finite element method light amplifiers fracturing light beams . Fourier series Griffith crack nonlinear optics hole geometry (mechanics) autocorrelation optical bistability isoparametric finite elements data compression phase coherence J integral differential equations signal mixing mechanics (physics) divergence wave interaction micromechanics exponential functions plane strain frequency distribution fovea residual strength harmonic analysis The central part of the retina, which rock mechanics harmonic excitation contains a high concentration of the color senrupturing harmonic functions sitive receptors known as cones. short cracks harmonic generations GS anatomy soil mechanics harmonic oscillation . sense organs strain distribution harmonics . . eye (anatomy) stress distribution . . . retina information theory stress intensity factors kurtosis . . fovea stress tensors linear transformations RT Saccadic eye movements time temperature parameter measure and integration operational calculus FR-1 satellite periodic functions GS artificial satellites fracture resistance periodic variations . French satellites USE fracture strength real variables .. FR-1 satellite simple harmonic motion fracture strength DEF The normal stress at the beginning of fractals time series analysis DEF Highly irregular geometrical figures fracture. Fracture strength is calculated from the wavelet analysis load at the beginning of fracture during a tension such as snowflakes or the boundary of a cloud Fourier law whose capacity dimension is not an integer. The test and the original cross-sectional area of the GS laws capacity dimension characterizes the measuring specimen. Used for fracture resistance and fracof the number of different size superimposed ture toughness. Fourier law squares needed to cover the geometric shape. UF , fracture resistance thermal conductivity By the use of differing size boxes, one is able to fracture toughness determine the capacity dimension. mechanical properties Fourier series GS analysis (mathematics) dimensions . fracture strength GS . fractals . flexural strength . calculus . . series (mathematics) geometry bend tests brittle materials . Fourier series fractals . Fourier analysis RT ∞ applications of mathematics brittleness .. Fourier series coordinates burst tests . real variables exponents carbon-carbon composites . . series (mathematics) half spaces crack closure ∞ mathematics . Fourier series crack initiation RT Gibbs phenomenon crack opening displacement ratios set theory crack propagation

snace

RT refining

fractionation

GS

strange attractors

chemical fractionation

fractionation

hydrocracking

Fourier transformation

GS analysis (mathematics)

. functional analysis

. . integral transformations

functions (mathematics)

Fourier transformation

... Fourier transformation

. . fast Fourier transformations

creep rupture strength

ductile-brittle transition

earthquake resistance

load carrying capacity

eutectic composites

ductility

hardness

J integral

residual strength trusses Pomeranchuk theorem ∞ resistance retirement for cause Fredholm operators frames (data processing) ∞ strength data management USE Fredholm equations data processing operators (mathematics) toughness yield strength format free atmosphere image processing That portion of the Earth's atmofracture toughness USE fracture strength framing cameras sphere, above the planetary boundary layer, in which the effect of the Earth's surface friction on GS optical equipment fractures (materials) the air is negligible, and in which the air is . cameras GS fractures (materials) usually treated (dynamically) as an ideal fluid. . . high speed cameras . cracks The base of the free atmosphere is usually . framing cameras . . crack tips taken as the geostrophic wind level. photographic equipment . . edge cracks GS Earth atmosphere cameras . . microcracks free atmosphere . . high speed cameras . . short cracks biosphere . framing cameras . surface cracks middle atmosphere RT frame photography crack opening displacement primitive Earth atmosphere rotating mirrors damage deformation free boundaries France GS boundaries failure GS nations free boundaries fractography . France RT fluid boundaries ∞ materials . . French Guiana interfaces . . Guadeloupe fracturing jet flow . Martinique fracturing jet mixing flow Andorra . cracking (fracturing) jet streams (meteorology) **English Channel** . . stress corrosion cracking liquid surfaces Europe crustal fractures liquid-liquid interfaces French space program brittleness liquid-vapor interfaces Pyrenees Mountains (Europe) chipping Rhone Delta (France) crack closure free convection natural convection crack opening displacement francium crack propagation thermal convection GS chemical elements cutting convection . alkali metals flaking formations . free convection . francium . . Rayleigh-Benard convection metals fracture mechanics . . Benard cells . alkali metals RT convection currents fragmentation . . francium fragments convective flow convective heat transfer metal fatique Franck-Condon principle perforating forced convection Born-Oppenheimer approximation ∞ separation laminar flow color centers Marangoni convection spalling conduction bands splitting porous boundary layer control electron transitions solar convection (astronomy) stress functions forbidden transitions stellar convection structural failure optical transition temperature fragmentation thermosiphons Fraunhofer line discriminators UF shattering turbulent flow GS circuits RT acoustic streaming . discriminators free electron lasers breaking . Fraunhofer line discriminators Multifrequency lasers utilizing optical bursts absorption spectra radiation amplification by a beam of free elecchipping luminescence trons passing through a vacuum in a transverse periodic magnetic field, as opposed to convencomminution measuring instruments fracturing spectroscopic analysis fragments tional lasers in which the oscillating electrons spectroscopy penetration are bound to atoms and molecules and have a Sabot projectiles specific wavelength. Fraunhofer lines shrapnel stimulated emission devices DEF Dark lines in the absorption spectrum spalling . lasers of solar radiation due to absorption by gases in terminal ballistics free electron lasers the outer portions of the sun and in the Earth's diffraction radiation atmosphere. wiggler magnets fragments GS spectra chips . radiation spectra debris free electrons . . absorption spectra DEF Electrons which are not bound to an eiecta ... Fraunhofer lines fracturing atom. . . electromagnetic spectra fragmentation GS charge carriers . . . line spectra shrapnel . free electrons .... Fraunhofer lines particles . spectral bands frame photography . charged particles . . absorption spectra . . energetic particles imagery . Fraunhofer lines . . . electrons . photography absorption spectroscopy frame photography . . . . free electrons optogalvanic spectroscopy black and white photography . corpuscular radiation solar spectra . . energetic particles framing cameras high speed cameras . . . electrons Fraunhofer region .. free electrons . elementary particles frames USE far fields . . fermions frames GS ... leptons . airframes Fredholm equations . . . . electrons . chassis Fredholm operators undercarriages analysis (mathematics) . free electrons RT carriages . functional analysis RT Brillouin zones springs (elastic) ∞ structures . . integral equations conduction electrons Fredholm equations electron avalanche

RT ∞ equations

ill-posed problems (mathematics)

electron density (concentration)

electron gas

struts

supports

forbidden bands atoms bay ice plasma frequencies carbenes cloud glaciation recombination coefficient cold traps negative ions cooling free energy oxygen ions cryogenic cooling thermodynamic properties trivalent ions crystallization . free energy vinyl radical freeze drying . Gibbs free energy frost free stream effects RT chemical energy ice formation USE free flow ∞ energy ice nuclei energy of formation low temperature free streams enthalpy melting Gibbs-Helmholtz equations USE free flow preserving internal energy pressure ice free vibration ∞ level refrigerating Oscillation of a system in the absence molecular energy levels sea ice of external forces. Used for free oscillations. thermal energy solidification free oscillations thermodynamics solidified gases GS vibration free vibration freezing points free fall RT forced vibration DEF The fall or drop of a body, such as a USE melting points linear vibration rocket, not guided, not under thrust, and not Mindlin plates retarded by a parachute or a braking device. The freight proton precession free and unhampered motion of a body along a USE cargo Keplerian trajectory, in the force of gravity is counterbalanced by the force of inertia. self excitation self induced vibration freight costs air drop operations vibration mode ĞS costs ballistic trajectories . freight costs free wing aircraft falling spheres RT cargo freighters RT aerodynamics parachute descent ∞ aircraft parafoils transportation aircraft design weightlessness control surfaces freighters free flight freight costs Freedom Fighter aircraft Unconstrained or unassisted flight, as harbors USE F-5 aircraft in the flight of a rocket after consumption of its transportation propellant or after motor shutoff, in the flight of wharves Freedom Space Station an unguided projectile, and in the flight in certain USE Space Station Freedom French Equatorial Congo kinds of wind tunnels of unmounted models. USE Congo (Brazzaville)  $RT \, \infty \, flight$ free-piston engines DEF Engines in which the pistons are not connected to the crank. aliders French Guiana gliding hang gliders nations engines GS . France . piston engines free flight test apparatus . French Guiana . free-piston engines Caribbean region RT flight tests AC generators South America ∞ test equipment linear alternators pistons French satellites free flow spacecraft power supplies GS artificial satellites UF free stream effects Stirling engines . French satellites free streams . . D-1 satellite GS fluid flow free-space optical communication . . D-2 satellites free flow (added June 1998) . . EOLE satellites RT GS telecommunication void ratio . . FR-1 satellite . communication . . GEOLE satellites . . optical communication . . PEOLE satellites DEF Fluid jets without solid boundaries, ... free-space optical such as a jet discharging into the open. . . Poseidon satellite communication fluid jets . . SPOT (French satellite) GS high power lasers ... SRET satellites ... SRET 1 satellite free jets laser beams jet boundaries satellite communication SRET 2 satellite iet flow space communication European space programs METEOSAT satellite ∞ jets free-space optical interconnects (added June 1998)
UF FSOI (integrated optics)
GS optical interconnects
free-space optical interconnects free molecular flow Symphonie satellites GS fluid flow . gas flow French space program . free molecular flow (added December 1990) RT continuum flow programs RT integrated optics kinetic theory . space programs interprocessor communication Knudsen flow European space programs optical computers molecular beams French space program optical switching rarefied gas dynamics RT EOLE satellites optoelectronic devices France rarefied gases photonics slip flow **GEOLE** satellites transition flow Granat satellite freeze drying Hermes manned spaceplane GS drying freeze drying dehydrated food dehydration free oscillations international cooperation USE free vibration METEOSAT satellite RT ∞ research projects freezing space exploration free radicals space missions DEF Atoms or groups of atoms broken frozen foods away from stable compounds by application of external energy, and, although containing un-paired electrons, remaining free for transitory or ∞ spacecraft preserving SRET 1 satellite freezing SRET satellites

phase transformations

. vibrational freezing

. zone melting

freezing

antifreezes

GS

longer periods.

radicals

RT amino radical

. free radicals

. hydroxyl radicals

ĞS

Frenkel defects

GS defects

. crystal defects

. . point defects

... vacancies (crystal defects) . . . . Frenkel defects

freon

air conditioning coolants cooling cooling systems fluorohydrocarbons gas cooling refrigerants refrigerating

#### frequencies

Of a function periodic in time, the reciprocals of primitive periods. The unit is the cycle per unit time and must be specified. Used for frequency bands.

UF frequency b

frequency bands GS

## frequencies

- . acoustic frequencies
- . . audio frequencies
- ... quefrencies
- . screech tones
- . beat frequencies
- broadband
- . Brunt-Vaisala frequency
- . carrier frequencies
- . critical frequencies
- cyclotron frequency
- . infrasonic frequencies
- . ionization frequencies
- . maximum usable frequency
- . Nyquist frequencies
- . plasma frequencies
- radio frequencies
- . . extremely low frequencies . . high frequencies
- . . intermediate frequencies
- . . low frequencies . . . very low frequencies
- . . microwave frequencies
- . . . C band
- extremely high frequencies
- ...P band
- . superhigh frequencies
- ultrahigh frequencies
- . P band
- .. very high frequencies
- . . . P band
- . resonant frequencies
- subaudible frequencies

sweep frequency

RT aeolian tones amplitudes

∞ bands

bandwidth

broadband amplifiers

channel capacity

∞ channels

frequency distribution frequency ranges

frequency reuse

harmonics

line spectra

longitudinal waves

microchannels

millimeter waves

narrowband

∞ pitch

radio waves spectral bands

standing waves submillimeter waves

superharmonics

## frequency analyzers

harmonic analysis intermodulation oscilloscopes selective fading

signal analysis spectrum analysis sweep frequency

∞ test equipment

vibration measurement

frequency assignment
DEF The specific frequency or frequencies authorized by competent authority; expressed

for each channel by: (a) the authorized carrier frequency, the frequency tolerance, and the authorized emission bandwidth, (b) the authorized emission bandwidth in reference to a specific assigned frequency (when a carrier does exist), or (c) the authorized frequency band (when a carrier does not exist).

communicating frequency reuse

maximum usable frequency orbit spectrum utilization

frequency bands

USE frequencies

## frequency compression demodulators

GS demodulators

. frequency compression demodulators

### frequency control

frequency regulation frequency control

automatic frequency control

autodynes

∞ control

crystal oscillators frequency pulling quartz crystals signal stabilization

frequency conversion

USE frequency converters

## frequency converters

ÙF frequency conversion frequency translation

## frequency converters . down-converters GS

- frequency dividers frequency multipliers frequency synthesizers parametric frequency converters up-converters

 $RT \, \infty \, conversion$ ∞ converters

harmonic generators

mixing circuits

parametric amplifiers

pulse width amplitude converters

# frequency discriminators DEF Electronic circuits

Electronic circuits which deliver output voltages proportional to the deviations of signals from predetermined frequency values.

GŚ circuits

- . discriminators
- . . frequency discriminators

## frequency distribution

(OF CYCLIC VARIATIONS) distribution (property)

frequency distribution

. kurtosis

cycles

RT

RT

Fourier analysis

frequencies

subaudible frequencies

## frequency dividers

ĠS frequency converters

frequency dividers

down-converters

## frequency division multiple access

DEF A method of providing multiple access to communication satellites in which the transmissions from a particular Earth station occupy a particular assigned frequency band. In the satellite, the signals are simultaneously amplified and transposed to a different frequency band and retransmitted. The Earth station identifies its receiving channel according to its assigned frequency band in the satellite signal. Used for FDMA.

UF FDMA

GS telecommunication

. multiple access

frequency division multiple access

transmission

- . signal transmission
- . . data transmission
- . . . multiple access

### .... frequency division multiple access

Aloha system

code division multiple access

code division multiplexing

multiplexing

radio communication

time division multiple access

## frequency division multiplexing

The combining of a number of signals to share a medium by dividing it into different frequency bands for each signal.

transmission

. multiplexing

## . frequency division multiplexing

carrier frequencies communication networks data transmission demultiplexing multiple access pulse communication radio communication satellite transmission telecommunication

time division multiplexing

wavelength division multiplexing

## frequency domain analysis

(added April 1999)

analysis (mathematics)

. frequency domain analysis control systems design dynamic response frequency response parameter identification signal processing

frequency hopping DEF Random changing of frequencies in transmission to mislead or prevent interception by unauthorized equipment.

frequency reuse frequency shift keying

jammina

spread spectrum transmission transmission efficiency

frequency measurement RT acoustic measurement

 ${\color{blue} \infty \, measurement}$ 

time measurement vibration measurement

frequency modulation Angle modulation of a sine wave carrier in which the instantaneous frequency of the modulated wave differs from the carrier frequency by an amount proportional to the instan-

taneous value of the modulating wave. UF FM (modulation)

GS

- coding . signal encoding
- ... frequency modulation
- ... feedback frequency modulation
- ... FM/PM (modulation) frequency shift keying
- ... pulse frequency modulation

- . frequency modulation . . feedback frequency modulation
- FM/PM (modulation) . . frequency shift keying

. . pulse frequency modulation

amplitude modulation automatic frequency control

capture effect carrier to noise ratios

companding

demodulation demodulators

intermodulation

light modulation line of sight communication

modulators

phase modulation

pulse frequency modulation telemetry RT data links RT mixing circuits pulse modulation downlinking oscillators frequencies synthesizers voltage controlled oscillators frequency assignment frequency hopping frequency translation frequency modulation photomultipliers USE frequency converters frequency ranges GS amplifiers maximum usable frequency fresh water . current amplifiers microwave transmission Water in rivers, lakes, springs, etc. . . photomultiplier tubes radio transmission containing no significant amounts of dissolved frequency modulation satellite transmission photomultipliers salts. uplinking GS water electron tubes fresh water . cold cathode tubes frequency scanning AgRISTARS project . . phototubes ĞS scanning aquifers . . . photomultiplier tubes frequency scanning ground water .... frequency modulation panoramic scanning limnology photomultipliers radar scanning cathodes spectrum analysis potable water reservoirs vacuum tube oscillators sweep circuits springs (water) sweep frequency frequency multipliers Fresnel diffraction frequency converters frequency shift GS diffraction **Brillouin** effect GS frequency multipliers . Fresnel diffraction phase matching Doppler effect gratings (spectra) Doppler-Fizeau effect interferometry speckle interferometry frequency pulling frequency pulling (added July 1991) gyrotropism pulling (frequency stability) ∞ shift Fresnel integrals distortion Fresnel-Kirchhoff integrals frequency control frequency shift keying functions (mathematics)
. Fresnel integrals DEF That form of frequency modulation in frequency shift frequency stability laser outputs which the modulating wave shifts the output diffraction patterns frequency between predetermined values, and trigonometric functions laser stability the output wave is coherent with no phase wave diffraction oscillators discontinuity. stable oscillations coding GS signal encoding
frequency modulation Fresnel lenses tuning DEF Thin lenses constructed with stepped setbacks so as to have the optical properties of frequency ranges . . frequency shift keying much thicker lenses. Specifically designated parts of the frekeying GS lenses quency spectrum. frequency shift keying Fresnel lenses range (extremes) modulation RT focusing . frequency ranges frequency modulation ∞ optics . . octaves frequency shift keying . radio range . subaudible frequencies frequency hopping Fresnel reflectors radio transmission DEF Devices characterized by a set of miracoustic frequencies rors with varying orientation arranged so as to frequency stability bandwidth have the optical properties of a smooth reflector, acoustic stability dynamic range e.g., parabolic reflector. frequencies GS dynamic characteristics mirrors frequency response . dynamic stability . Fresnel reflectors frequency stability frequency reuse reflectors stability Fresnel reflectors frequency regulation . dynamic stability RT interferometry USE frequency control . frequency stability slits crystal oscillators speckle interferometry frequency response frequency pulling ÜF phase response laser stability Fresnel region GS responses oscillators DEF The region between the antenna and frequency response quartz crystals the Fraunhofer region. RT acuity stable oscillations GS regions broadbandvoltage controlled oscillators . Fresnel region distributed amplifiers antenna radiation patterns dynamic characteristics frequency standards diffraction patterns dynamic range standards GS far fields dynamic response frequency standards equalizers (circuits) atomic clocks Fresnel-Kirchhoff integrals excitation gas masers USE Fresnel integrals frequency domain analysis ion storage frequency ranges masers fretting linear filters resonators erosion linear receivers time signals fatigue (materials) log periodic antennas time synchronization tribology logarithmic receivers wear tests perception frequency synchronization pulse repetition rate synchronism fretting corrosion ramp functions frequency synchronization GS corrosion sensitivity bit synchronization fretting corrosion smear capture effect RT fatigue (materials) spectral sensitivity homodyne reception stress corrosion

## frequency reuse

step functions

stroking tests

thresholds (perception)

DEF A digital satellite communication technique which features the reuse of frequency bands in a downlink transmission to provide high power utilization and flexible accommodation of dynamic source destination traffic patterns.

frequency synthesizers

syntony

frequency converters

. frequency synthesizers signal generators

sweep frequency

synchronized oscillators

time synchronization

. frequency synthesizers

GS friction

wear

friction

dry friction

. flow resistance

The resistance to the relative motion of one body sliding, rolling, or flowing over another body with which it is in contact.

. . friction drag

. . . aerodynamic drag streamlining ... frogs . . . . supersonic drag . . . viscous drag friction stir welding frontal areas (meteorology) . internal friction (added August 2002) USE fronts (meteorology) . kinetic friction Solid state welding technique where a . . sliding friction frictionally heated metal seam is stirred by a frontal waves . skin friction rotating pin tool to create a bond. The process RT ocean currents . . friction drag involves no melting and the weld occurs via oceanography . . . aerodynamic drag extreme plastic deformation associated with frictsunami waves . . . supersonic drag tional straining. water waves . . . viscous drag FSW (welding) ∞ waves static friction welding RT abrasion . pressure welding ∞ fronts coefficient of friction . . friction welding (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) drag drag reduction . friction stir welding aluminum alloys energy dissipation fluid flow plastic deformation cold fronts fronts (meteorology) stirring mechanical impedance welded joints shock fronts ∞ pressure drop warm fronts scoring wave fronts friction welding stiction GS welding surface properties . pressure welding fronts (meteorology) surface roughness . friction welding The contacts at the Earth's surface traction between two different air masses commonly . . . friction stir welding tribology cold and warm, that generally move in an easttriboluminescence erly direction. Used for frontal areas (meteorolfrictionless environments tribometers ogy) and weather fronts. environments wear frontal areas (meteorology) frictionless environments wear tests weather fronts deep space wheel brakes GS fronts (meteorology) levitation . cold fronts friction coefficient . warm fronts Friedel-Craft reaction USE coefficient of friction air masses GS chemical reactions arc clouds . Friedel-Craft reaction friction drag ∞ fronts acylation nonequilibrium drag intertropical convergent zones alkylation dynamic characteristics marine meteorology meteorological parameters . drag . . friction drag meteorology Friendship 7 . . . aerodynamic drag GS manned spacecraft storms . . . supersonic drag . Mercury spacecraft synoptic meteorology . Friendship 7 . . viscous drag thunderstorms reentry vehicles friction tornadoes . flow resistance . recoverable spacecraft . . friction drag . . Mercury spacecraft . . . Friendship 7 frost . . . aerodynamic drag RT bay ice soft landing spacecraft . supersonic drag dew . Mercury spacecraft . viscous drag freezing Friendship 7 . skin friction . . friction drag space capsules low temperature . . . aerodynamic drag . Mercury spacecraft . . . . supersonic drag . Friendship 7 frost damage . viscous drag RT Mercury MA-6 flight GS damage RT minimum drag . frost damage pressure drag fringe multiplication RT cold weather riblets The duplicating effect of a family of ∞ crops satellite drag curves superimposed on another family of farm crops surface roughness effects curves so that the curves intersect at angles less fruits wave drag than 45 degrees. A new family of curves appears low temperature which pass through intersections of the original orchards friction factor plants (botany) friction loss coefficient diffraction patterns RT coefficient of friction interference grating frostbite pressure gradients Moire effects GS injuries skin friction Moire fringes . frostbite multiplication RT cold tolerance photoelastic analysis friction loss coefficient stress analysis USE friction factor Froude number stress concentration The nondimensional ratio of the inertial friction measurement force to the force of gravity for a given fluid flow; fringe patterns UF tribometry the reciprocal of the Reech number. USE diffraction patterns GS mechanical measurement GS dimensionless numbers friction measurement . Froude number elastohydrodynamics ratios kinetic friction A powdered ceramic prepared by fus-Froude number  $\infty$  measurement fluid flow ing a physical mixture of oxides into a uniform static friction melt, which is then quenched and milled into a inertia fine, homogeneous powder. tribometers kinetic energy ceramics potential energy fusion (melting) Revnolds number friction pressure drop USE skin friction glazes Strouhal number vitreous materials friction reduction frozen equilibrium flow antifriction bearings GS fluid flow RT frogs

animals

. vertebrates

. . amphibia

. gas flow

. . equilibrium flow

... frozen equilibrium flow

coefficient of friction

**lubrication** 

∞ reduction

RT shifting equilibrium flow . . solid oxide fuel cells particle laden jets reacting flow RT ∞ cells frozen foods chemical auxiliary power units fuel flow regulators RT ∞ food ∞ electric cells food processing electrocatalysts GS control equipment freeze drying electrochemistry . regulators preserving electrolytes . . flow regulators refrigerating energy conversion efficiency ... fuel flow regulators energy storage frozen soils fuel cell power plants fuel gages permafrost USE hydrogen fuels GŠ measuring instruments hydrogen-based energy . fuel gages fruits ion exchange membrane electrolytes . capacitive fuel gages GS farm crops magnetohydrodynamic generators flowmeters RT . fruits solar cells RT agriculture fuel injection solar generators bollworms thermionic converters injection carburetors botany thermoelectric generators GS injection  $\infty$  food fuel injection wet cells frost damage RT burners orchards carburetors fuel combustion fluid injection combustion frustration . fuel combustion gas injection RT disabilities injectors . nuclear fuel burnup emotional factors RT combustion efficiency internal combustion engines emotions jet engines combustion stability ∞ inhibition erosive burning jet mixing flow lethargy hydrocarbon combustion hypersonic combustion jet nozzles psychological effects liquid injection psychology ignition metal combustion piston engines propellant sprays frustums spray nozzles oxidation cones propellant combustion geometry fuel oils solid propellant combustion pyramids spontaneous combustion GS fuels volume . chemical fuels supersonic combustion . . liquid fuels turbulent combustion FSOI (integrated optics) fuel oils (added June 1998) oils fuel conservation USE free-space optical interconnects . fuel oils USE fuel consumption energy policy kerogen FSW (welding) (added August 2002)
USE friction stir welding fuel consumption The using of fuel by an engine or kerosene power plant; the rate of this consumption, measured, e.g., in gallons or pounds per minute. shale oil solvent refined coal fuel capsules fuel conservation UF RT ∞ capsules fuel production GS consumption nuclear fuels DEF Production

Output

Description

Descrip fuel consumption pellets spent fuels RT burning rate combustion efficiency fuel cell catalysts energy consumption chemical fuels USE electrocatalysts energy requirements composite propellants internal combustion engines crude oil fuel cell power plants propellant consumption fission DEF Power generating devices that directly produce electrical energy from chemical energy refueling ∞ fusion hydrocarbon fuels and consist of fuel processors, stacked fuel hydrogen fuels cells, and dc to ac converters. The main types, fuel contamination distinguished by electrolytes which are heated contamination in situ resource utilization to different temperatures, are base, phosphoric fuel contamination liquid fuels nuclear fuels acid, molten carbonate, and solid oxide. antiicing additives electric power plants contaminants ∞ production refueling synthesis gas fuel cell power plants coal gasification energy technology fuel cells fuel pumps fuel control RT combustion control GS pumps ∞ control fuel pumps engine control aircraft fuel systems fuel cells (EXCLUDES BATTERIES)
Devices which convert chemical enfluid management axial flow pumps liquid sloshing centrifugal pumps ergy directly into electrical energy but differing propellant transfer electromagnetic pumps from a storage battery in that the reacting chemirefueling internal combustion engines cals are supplied continuously as needed to rocket engine control jet engines meet output requirements. turbojet engine control jet pumps electric generators materials handling . direct power generators fuel corrosion turbine pumps ... fuel cells GS corrosion . . . biochemical fuel cells . fuel corrosion fuel sprays . . . hydrogen oxygen fuel cells propellant decomposition liquid injection ... molten carbonate fuel cells propellant storability propellant sprays . . . phosphoric acid fuel cells sprayers . . . regenerative fuel cells fuel elements (nuclear reactors) . . solid oxide fuel cells USE nuclear fuel elements fuel systems electrochemical cells GS fuel systems . fuel cells fuel flow . aircraft fuel systems . . biochemical fuel cells GS fluid flow accumulators . . hydrogen oxygen fuel cells . . molten carbonate fuel cells . fuel flow automobiles . propellant transfer bunkers (fuel)

combustible flow

ducted flow

RT

. . phosphoric acid fuel cells

. . regenerative fuel cells

carburetors

chokes (fuel systems)

|          | engines                     |          | volumetric efficiency         |           | wind velocity                           |
|----------|-----------------------------|----------|-------------------------------|-----------|---|
|          | feeders                     |          | volumetric emolerity          |           | Willia Velocity                         |
|          | fuels                       |          |                               | full sca  | le tests                                |
|          | injectors                   | fueling  |                               | RT        | altitude tests                          |
|          | inlet temperature           | USE      | refueling                     | 111       | engine tests                            |
|          |                             | 002      | rordonnig                     |           | flight tests                            |
|          | intake systems              |          |                               |           |   |
|          | internal combustion engines | fuels    |                               |           | ground tests                            |
|          | manifolds                   | GS       | fuels                         |           | high altitude tests                     |
|          | plenum chambers             | 00       | . chemical fuels              | ٥         | • tests                                 |
|          | propellant transfer         |          | endothermic fuels             |           |   |
|          | refueling                   |          |                               | fulleren  |   |
|          | self sealing                |          | high energy fuels             |           | ed August 1991)                         |
|          | spray nozzles               |          | hydrocarbon fuels             |           | Molecules whose structure is similar to |
| ~        | systems                     |          | diesel fuels                  |           | pe of a soccer ball (polyhedron). The   |
|          |                             |          | fossil fuels                  |           | c-dome-like molecular structure causes  |
|          | k pressurization            |          | coal                          |           | olecules to be named after Buckminster  |
| GS       | pressurizing                |          | anthracite                    |           | ence, 'fullerene. '                     |
|          | . fuel tank pressurization  |          | lignite                       | GS        | fullerenes                              |
| RT       | aircraft fuel systems       |          | solvent refined coal          |           | . buckminsterfullerene                  |
|          | exhaust systems             |          | crude oil                     | RT        | atomic clusters                         |
|          | expulsion bladders          |          | natural gas                   |           | carbon                                  |
|          | liquid rocket propellants   |          | liquefied natural gas         |           | carbon nanotubes                        |
|          | pressure                    |          | peat                          |           | fullerides                              |
|          | pressure regulators         |          | shale oil                     |           | graphite                                |
|          | pressure vessels            |          | gasoline                      |           | molecular clusters                      |
|          | propellant storage          |          | jet engine fuels              |           | nanoparticles                           |
|          | propellant tanks            |          | JP-4 jet fuel                 |           | nanostructure growth                    |
|          | propulsion                  |          | JP-5 jet fuel                 |           | nanotubes                               |
|          | relief valves               |          | JP-6 jet fuel                 |           | polyatomic molecules                    |
|          | ullage                      |          | JP-7 jet fuel                 |           | polyhedrons                             |
|          | vapor pressure              |          | JP-8 jet fuel                 |           | p = 1,112 = 112                         |
|          | vapor pressure              |          | synthane                      | fulleride | 25                                      |
| fuel tan | ks                          |          | liquid fuels                  |           | ed February 1998)                       |
| GS       | tanks (containers)          |          | antimisting fuels             |           | carbon compounds                        |
| 00       | . fuel tanks                |          | diesel fuels                  | 00        | . fullerides                            |
|          | wing tanks                  |          | gasoline                      | DT .      | o alkali metal compounds                |
| RT       | aircraft fuel systems       |          | hydrogen fuels                |           | chemical compounds                      |
|          | containers                  |          | jet engine fuels              | 0         |   |
| ~        |                             |          | JP-4 jet fuel                 |           | doped crystals                          |
|          | corrosion prevention        |          | JP-5 jet fuel                 |           | fullerenes                              |
|          | cryogenic fluid storage     |          | JP-6 jet fuel                 |           | superconductors (materials)             |
|          | cylindrical tanks           |          | JP-7 jet fuel                 | fulmina   | tos                                     |
|          | expulsion bladders          |          |                               | GS        | esters                                  |
|          | external tanks              |          | JP-8 jet fuel<br>fuel oils    | GG        |   |
|          | feed systems                |          | kerosene                      |           | . isocyanates<br>fulminates             |
|          | fuels                       |          | metal fuels                   |           |   |
|          | heating equipment           |          |                               |           | nitrogen compounds                      |
|          | liquid sloshing             |          | synthetic fuels               |           | . cyano compounds                       |
|          | pods (external stores)      |          | gasohol (fuel)                |           | isocyanates<br>fulminates               |
|          | pressure vessels            |          | synthane<br>. clean fuels     | RT        | detonators                              |
|          | propellant storage          |          | . coke                        | IXI       | explosives                              |
|          | propellant tanks            |          | . gaseous fuels               |           | propellants                             |
|          | propellants propulsion      |          | natural gas                   |           | propellants                             |
|          | protuberances               |          | liquefied natural gas         | fumes     |   |
|          | spacecraft structures       |          | . nuclear fuels               | RT        | aerosols                                |
|          |                             |          | ceramic nuclear fuels         | 111       | dispersions                             |
|          | spherical tanks             |          | fissile fuels                 |           | dust                                    |
|          | storage tanks               |          |                               |           | exhaust gases                           |
|          | tanker aircraft             |          | fissium                       |           | fire damage                             |
|          | ullage                      |          | spent fuels                   |           | gas mixtures                            |
| f t      | 4-                          |          | . aircraft fuels              |           |   |
| fuel tes |                             | БТ       | automobile fuels              |           | gases                                   |
| GS       | fuel tests                  | RT       | bioconversion                 |           | haze detection                          |
| D.T.     | . reactor startup tests     |          | burning rate                  |           | reaction products                       |
| RT       | chemical analysis           |          | charcoal                      |           | smoke                                   |
|          | corrosion tests             |          | energy policy                 |           | smoke detectors                         |
|          | engine tests                |          | energy storage                |           | vapors                                  |
| ~        | materials tests             |          | flames                        |           | wastes                                  |
|          | missile tests               |          | fuel systems                  |           |   |
|          | propellant tests            |          | fuel tanks                    | fumigat   |   |
|          | stability tests             |          | hydrogen                      | RT        | antiseptics                             |
|          | test firing                 |          | hydrogen production           |           | bactericides                            |
| ~        | tests                       |          | kerogen                       |           | spraying                                |
|          |                             |          | liquid ammonia                |           | sterilization                           |
| fuel val |                             |          | liquid hydrogen               |           |   |
| GS       | valves                      |          | nuclear fuel elements         |           | n generators                            |
|          | . fuel valves               |          | oils                          | GS        | 0 0                                     |
| RT       | aircraft fuel systems       |          | oxidizers                     |           | function generators                     |
|          | gas valves                  |          | premixing                     | RT ∘      | o generators                            |
|          | relief valves               |          | propellants                   |           | pulse generators                        |
|          |                             |          | rocket propellants            |           | voltage generators                      |
| fuel-air |                             |          | shale oil                     |           | wave generation                         |
| GS       | ratios                      |          | transportation energy         |           |   |
|          | fuel-air ratio              |          |                               |           | n space                                 |
| RT       | burning rate                |          |                               | GS        | analysis (mathematics)                  |
|          | combustion efficiency       | Fujita r |                               |           | . function space                        |
|          | compression ratio           | RT       | coordinates                   |           | Banach space                            |
|          | gas mixtures                |          | ∞ methodology                 |           | Hilbert space                           |
|          | ignition limits             |          | tornadoes                     |           | Sobolev space                           |
|          | premixing                   |          | ∞ transformations             | RT        | fibers (mathematics)                    |
|          | pressure ratio              |          | transformations (mathematics) |           | field theory (physics)                  |

functions (mathematics) orthogonal functions quantum mechanics series (mathematics) ∞ space statistical mechanics vectors (mathematics)

## functional analysis

GS analysis (mathematics)

## functional analysis

- . . Banach space
- . . . Hilbert space
- . . . Sobolev space
- . . convolution integrals
- . . harmonic analysis . . . tesseral harmonics
- . . . zonal harmonics
- . . integral equations
- . . . Fredholm equations
- ... J integral
  ... singular integral equations

- Volterra equations
   Wiener Hopf equations
   integral transformations
   Fourier transformation
- . fast Fourier transformations
- . . . Fourier-Bessel transformations
- . . . Hilbert transformation
- . . Laplace transformation

complex variables

form factors

functions (mathematics)

series (mathematics)

Walsh function

### functional design specifications

DEF Those levels of design in which all subtasks are specified and their relationships defined so that the total collection of subsystems will perform the intended task of the entire system.

specifications GS

### functional design specifications

aeronautical engineering

∞ design

equipment specifications

missile design

product development

systems engineering

## functional integration

GS analysis (mathematics)

- . real variables
- . . measure and integration
- . . functional integration

analog computers differential equations

digital integrators

partial differential equations

functionally gradient materials (added September 1992) DEF Composite materials that consist of a gradual compositional variation from ceramic to metal from one surface to the other. These continuous changes result in property gradients which can be adjusted by controlling the composition. Used for FGM (materials).

FGM (materials)

GS composite materials

## functionally gradient materials

aircraft construction materials

airframe materials anisotropic media

bimetals

ceramic matrix composites

combustion synthesis composite structures

fiber composites

matrix materials

metal matrix composites

prepregs

spacecraft construction materials

### functionals

RT ∞ functions

functions (mathematics)

### integrals

#### ∞ functions

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

RT contralateral functions

functionals

functions (mathematics) muscular function parenteral functions penalty function

pulmonary functions renal function scattering functions work functions

#### functions (mathematics)

### GS functions (mathematics)

- Abel function
- . Airy function
- . analytic functions
- . entire functions . aperiodic functions
- asymptotes
  Boolean functions

- composite functions conformal mapping
- coordinate transformations
- delta function
- discrete functions
- discriminant analysis (statistics)
- distribution functions
- probability distribution functions
- disturbing functions
- error functions
- Fourier transformation
- . fast Fourier transformations
- Fourier-Bessel transformations
- Fresnel integrals
- gamma function
- Green's functions
- Hamiltonian functions
- Hankel functions harmonic functions
- hyperbolic functions
- hypergeometric functions
- kernel functions
- Lagrangian function
- Laguerre functions
- Lame functions
- Laplace transformation . Legendre functions
- Liapunov functions
- linear transformations
- Lorentz transformations
- Mathieu function
- Maxwell-Boltzmann density function
- Mellin transforms
- . meromorphic functions
  . elliptic functions
- . . rational functions
- monotone functions
- . orthogonal functions
- . Walsh function
- orthonormal functions
- penalty function
- point spread functions
- Poisson density functions
- . probability density functions
- normal density functions Pearson distributions
- Rayleigh distribution
- . . Weibull density functions
- ramp functions recursive functions
- Schwarz-Christoffel transformation
- . shape functions
- space-time functions
- spherical harmonics spline functions
- step functions
- stress functions time functions
- . transcendental functions
- . . exponential functions
- ... logarithms
- . . periodic functions
- ... trigonometric functions
- .... cosine series

- . . . . sine series
- . . tangents
- . transfer functions . . loop transfer functions
- . . modulation transfer function
- . optical transfer function
- . membership functions
- weighting functions
- Whittaker functions
- algebra
- ∞ applications of mathematics branching (mathematics)
- calculus
- continuity (mathematics)
- divergence
- extremum values
- function space
- functional analysis functionals
- ∞ functions infinity inflection points
- linearity mapping
- mathematical logic mathematical models mathematics
- nonlinearity number theory numerical differentiation
- operations research operators (mathematics) random variables
- range (extremes) transformations (mathematics)

- fungal diseases SN GS (EXCLUDES PLANT DISEASES) diseases
  - . infectious diseases

wavelet analysis

- . fungal diseases
  - dermatitis fungi respiratory diseases
- GS
- fungi
  - plants (botany) fungi
  - . . Aspergillus
  - Coccomyces . . gibberellins
  - . . neurospora
  - . . rhizopus
  - . . rust fungi
  - . . saccharomyces
  - . yeast
    - blight fungal diseases
  - lichens
  - microspores mitra
  - ∞ mold panspermia plant diseases
- thermophiles
- fungicides fungicides

spores

. xanthines . . caffeine

toxicology

. . guanines . uric acid antiinfectives and antibacterials

# funnels

RT conical inlets ∞ nozzles

furan resins

- GS plastics . synthetic resins
  - . . thermosetting resins . . . furan resins
  - .... polyamide resins . . . . Kevlar (trademark)
  - . . . . Nylon (trademark)

| resins   | airframes  | stellarators                                  |
|--|--|---|
| . synthetic resins                               | bays (structural units)                              | RT beta factor                                |
| thermosetting resins                             | body-wing and tail configurations                    | blankets (fusion reactors)                    |
| furan resins                                     | camber   | bumpy toruses                                 |
| polyamide resins                                 | centerbodies   | fusion-fission hybrid reactors                |
| Kevlar (trademark)                               | cockpits   | impact fusion                                 |
| Nylon (trademark)                                | cylindrical bodies                                   | inertial fusion (reactor)                     |
| RT adhesives                                     | hulls (structures)                                   | limiters (fusion reactors)                    |
| coatings   | wing-fuselage stores                                 | mirror fusion                                 |
| g-   |  | nuclear fission                               |
| furans   | fuselage-wing stores                                 | nuclear fusion                                |
| DEF Organic heterocyclic compounds con-          | (added August 1998)                                  | Q values (nuclear physics)                    |
| taining diunsaturated rings of four carbon atoms | USE wing-fuselage stores                             | ∞ reactors                                    |
| and one oxygen atom; also known as furfuran or   | gg   | tandem mirrors                                |
| tetrol.  | ∞ fuses  | thermal barriers (plasma control)             |
| GS organic compounds                             | SN (USE OF A MORE SPECIFIC TERM IS                   | thermal barriers (plasma control)             |
| . cyclic compounds                               | RECOMMENDEDCONSULT THE TERMS                         | fusion weapons                                |
| heterocyclic compounds                           | LISTED BELOW)  | UF hydrogen bombs                             |
|  | RT circuit breakers                                  | GS weapons                                    |
| furans   | circuit protection                                   | . nuclear weapons                             |
| tetrahydrofuran                                  | electric fuses                                       | fusion weapons                                |
| RT ∞ chemical compounds                          | fuses (ordnance)                                     | RT laser weapons                              |
| plastics   | warheads   | nuclear fusion                                |
| solvents   |  | Tiucieai Tusioti                              |
| thiophenes                                       | fuses (ordnance)                                     | fusion welding                                |
|  | RT ammunition  | GS welding                                    |
| furfuryl alcohol                                 | caps (explosives)                                    | . fusion welding                              |
| RT aldehydes                                     | detonators   | electric welding                              |
| ∞ aromatic compounds                             | ∞ fuses  | arc welding                                   |
|  | initiators (explosives)                              | gas tungsten arc welding                      |
| furlable antennas                                | warheads   | plasma arc welding                            |
| GS antennas                                      | wicks  |   |
| . furlable antennas                              |  | electroslag welding                           |
| RT communication equipment                       | fusibility   | flash welding                                 |
| folding structures                               | GS thermodynamic properties                          | electron beam welding                         |
| satellite antennas                               | . thermophysical properties                          | gas welding                                   |
| space communication                              | fusibility   | brazing                                       |
| spacecraft antennas                              | RT ∞ physical properties                             | low temperature brazing                       |
| .,   | ∞ resistance   | laser welding                                 |
| furnaces   | welding  | RT fusion (melting)                           |
| SN (EXCLUDES DOMESTIC HEATING                    | ű  | pressure welding                              |
| EQUIPMENT)                                       | fusiform shapes                                      | spot welds                                    |
| GS heating equipment                             | USE cones  | funion finales bublid secretary               |
| . furnaces                                       |  | fusion-fission hybrid reactors                |
| electric furnaces                                | ∞ fusion   | GS nuclear reactors                           |
| image furnaces                                   | SN (USE OF A MORE SPECIFIC TERM IS                   | fusion-fission hybrid reactors                |
| solar furnaces                                   | RECOMMENDEDCONSULT THE TERMS                         | RT fusion reactors                            |
| vacuum furnaces                                  | LISTED BELOW)  DEF The combining of atoms and conse- | nuclear fission                               |
| RT boilers                                       | 3 · · · · · · · · · · · · · · · · · · ·              | nuclear fusion                                |
| burners  | quent release of energy.                             | ∞ reactors                                    |
| chemical engineering                             | RT fuel production                                   |   |
| chemical reactors                                | inertial fusion (reactor)                            | fuzzy sets                                    |
| chimneys   | laser fusion   | DEF Mathematical models coupled with          |
| combustion chambers                              | liquid-solid interfaces                              | provision for the effect of human factors and |
| controlled atmospheres                           | nuclear fusion                                       | construction process and experience.          |
| · · · · · · · · · · · · · · · · · · ·            |  | RT algorithms                                 |
| ∞ cupolas<br>drying apparatus                    | fusion (melting)                                     | fuzzy systems                                 |
|  | GS phase transformations                             | membership functions                          |
| extraction<br>fluidized bed processors           | . melting  | set theory                                    |
| foundries  | fusion (melting)                                     | t   |
| hearths  | RT adhesion  | fuzzy systems                                 |
|  | frit   | DEF Systems that involve fuzzy sets.          |
| heat treatment incinerators                      | fusion welding                                       | RT algorithms                                 |
|  | heat of fusion                                       | fuzzy sets                                    |
| induction heating                                | ∞ joining  | membership functions                          |
| mechanical engineering                           | phase change materials                               | multisensor fusion                            |
| melting  |  | probability theory                            |
| ∞ metallurgy                                     | fusion heat  | set theory                                    |
| mufflers   | USE heat of fusion                                   | system identification                         |
| ovens  |  | ∞ systems                                     |
| refractories                                     | fusion propulsion                                    | systems analysis                              |
| separators                                       | (added September 1999)                               | uncertain systems                             |
| sintering  | GS propulsion  |   |
| waste energy utilization                         | . nuclear propulsion                                 | FV-12A aircraft                               |
|  | fusion propulsion                                    | GS attack aircraft                            |
| FUSE (satellite)                                 | RT inertial confinement fusion                       | . fighter aircraft                            |
| (added November 2000)                            | nuclear electric propulsion                          | FV-12A aircraft                               |
| USE Far UV Spectroscopic Explorer                | nuclear fusion                                       | V/STOL aircraft                               |
| · · · · · · · · · · · · · · · · · · ·            | nuclear rocket engines                               | . FV-12A aircraft                             |
| fuselage mounting                                | plasma propulsion                                    | RT ∞ aircraft                                 |
| USE aircraft production                          | spacecraft propulsion                                | ∞ military aircraft                           |
| 332 andrait production                           | ορασσσιαπ ρισραιοιστι                                | •   |
| fuselages  | fusion reactors                                      | FW-H equation                                 |
| GS aircraft structures                           | GS nuclear reactors                                  | (added January 2007)                          |
| . fuselages                                      | . fusion reactors                                    | USE Ffowcs Williams-Hawkings                  |
| RT aircraft construction materials               | heliotrons   | equation                                      |
| aircraft parts                                   | spheromaks   |   |
| antian pans                                      | spileromans  |   |

| G force   |                    | monoplanes                                       | RT                                      | doped crystals  |
|---|--------------------|--|---|---|
| USE acceleration (physics)                        |                    | . GA-5 aircraft                                  | 111                                     | eclogite  |
| 0.44  | RT •               | o aircraft                                       |   | ferrites  |
| G stars GS celestial bodies                       |                    | delta wings                                      |   | gadolinium  |
| . stars   | gabbro             |  |   | laser materials<br>lasers   |
| G stars   | GS                 | rocks  |   | magnetostatic amplifiers  |
| sun   |                    | . igneous rocks                                  |   | semiconductor lasers  |
| RT dwarf stars<br>F stars                         | RT                 | gabbro<br>anorthosite                            |   | semiconductors (materials)  |
| giant stars                                       | 17.1               | lunar rocks                                      | gages                                   |   |
| main sequence stars                               |                    |  | USE                                     | measuring instruments   |
| stellar spectra                                   | <b>Gabon</b><br>GS | nationa  |   |   |
| G-1 aircraft                                      | GS                 | nations<br>. <b>Gabon</b>                        |   | <b>/pothesis</b><br>ed June 1990)   |
| UF Navion G-1 aircraft                            | RT                 | Africa   |   | The hypothesis that the Earth's atmo-   |
| Navion Rangemaster aircraft                       | Gabor 1            | Filtoro  |   | biosphere, and its living organisms be  |
| Rangemaster aircraft GS general aviation aircraft |                    | ed February 1998)                                |   | s a single system striving to maintain a<br>conducive to the existance of life. |
| . G-1 aircraft                                    |                    | image filters                                    | RT                                      |   |
| light aircraft                                    |                    | Gabor filters                                    |   | atmospheric temperature   |
| . <b>G-1 aircraft</b><br>monoplanes               | RT                 | computer vision<br>ofilters                      |   | biochemistry  |
| . G-1 aircraft                                    |                    | Gabor transformation                             |   | biological evolution biosphere  |
| Navion aircraft                                   |                    | image analysis                                   |   | ecology   |
| G-1 aircraft                                      |                    | image processing                                 |   | ecosystems  |
| passenger aircraft<br>. <b>G-1 aircraft</b>       |                    | low pass filters<br>neural nets                  |   | greenhouse effect   |
| transport aircraft                                |                    | spatial filtering                                | gain (ar                                | mplification)   |
| G-1 aircraft                                      |                    | textures   |   | amplification   |
| RT ∞ aircraft                                     | Cabar              | transformation                                   |   | •   |
| G-91 aircraft                                     |                    | transformation<br>ed February 1998)              | gait                                    | - d C(b 000d)   |
| UF Fiat G-91 aircraft                             | ,                  | transformations (mathematics)                    |   | ed September 2001) The pace or manner in which a legged                         |
| GS attack aircraft                                |                    | _Gabor transformation                            |   | or robot moves from one place to an   |
| . fighter aircraft<br><b>G-91 aircraft</b>        | RT                 | Fourier transformation                           | other.                                  | •   |
| Fiat aircraft                                     |                    | Gabor filters<br>holography                      | GS                                      | locomotion  |
| . G-91 aircraft                                   |                    | image processing                                 | RT                                      | . <b>gait</b><br>leg (anatomy)  |
| jet aircraft                                      |                    | signal analysis                                  | • | robot dynamics  |
| . <b>G-91 aircraft</b><br>monoplanes              |                    | wavelet analysis                                 |   | running   |
| . G-91 aircraft                                   | gadolin            | ium  |   | walking<br>walking machines   |
| RT ∞ aircraft                                     | GS                 | chemical elements                                |   | walking machines  |
| G-95/4 aircraft                                   |                    | . rare earth elements                            | galactio                                |   |
| UF Fiat G-95/4 aircraft                           |                    | gadolinium<br>gadolinium isotopes                |   | ed August 1988)   |
| GS attack aircraft                                |                    | metals   | UF                                      | central bulge (galaxies)<br>nuclear bulge (galaxies)                            |
| . fighter aircraft                                |                    | . rare earth elements                            | RT                                      | galactic nuclei   |
| <b>G-95/4 aircraft</b><br>Fiat aircraft           |                    | gadolinium<br>gadolinium isotopes                |   | galactic structure  |
| . G-95/4 aircraft                                 | RT                 | gadolinium-gallium garnet                        |   | galaxies<br>Miller Work Colorer   |
| jet aircraft                                      |                    |  |   | Milky Way Galaxy spiral galaxies  |
| . <b>G-95/4 aircraft</b><br>monoplanes            |                    | ium alloys  Mixtures of gadolinium, a rare earth |   | x ray sources   |
| . G-95/4 aircraft                                 |                    | with other metals.                               |   |   |
| supersonic aircraft                               |                    | alloys   | galactio                                | C clusters (RESTRICTED TO CLUSTERS OF   |
| . G-95/4 aircraft                                 |                    | . rare earth alloys                              | 011                                     | GALAXIES; EXCLUDES OPEN   |
| V/STOL aircraft<br>. <b>G-95/4 aircraft</b>       | RT                 | gadolinium alloys<br>metals                      | UF                                      | CLUSTERS)<br>galaxy groups  |
| RT ∞ aircraft                                     | IXI                | metals   | GS                                      | celestial bodies  |
|   |                    | ium isotopes                                     |   | galactic clusters   |
| G-222 aircraft UF Fiat G-222 aircraft             | GS                 | chemical elements                                |   | local group (astronomy) Virgo galactic cluster                                  |
| UF Fiat G-222 aircraft GS Fiat aircraft           |                    | . nuclides isotopes                              | RT                                      |   |
| . G-222 aircraft                                  |                    | gadolinium isotopes                              | ۰                                       | ∘ clusters  |
| jet aircraft                                      |                    | . rare earth elements                            |   | cooling flows (astrophysics)  |
| . turboprop aircraft<br><b>G-222 aircraft</b>     |                    | gadolinium<br>gadolinium isotopes                |   | disk galaxies<br>elliptical galaxies  |
| monoplanes  |                    | metals   |   | large-scale structure of the universe   |
| G-222 aircraft                                    |                    | . rare earth elements                            |   | metallicity   |
| passenger aircraft                                |                    | gadolinium                                       |   | missing mass (astrophysics)   |
| . <b>G-222 aircraft</b><br>transport aircraft     |                    | gadolinium isotopes                              |   | protogalaxies<br>star clusters  |
| . G-222 aircraft                                  | gadolin            | ium-gallium garnet                               |   | star distribution   |
| V/STOL aircraft                                   |                    | ed August 1990)                                  |   | stellar systems   |
| . G-222 aircraft                                  |                    | A semiconducting crystalline com-                |   | Sunyaev-Zeldovich effect  |
| RT ∞ aircraft                                     | terial.            | sed primarily as a solid-state laser ma-         | galactic                                | c cosmic rays   |
| GA-5 aircraft                                     | UF                 | GGG (garnet)                                     |   | Energetic particles that come from out  |
| UF Gloster GA-5 aircraft                          | GS                 | gallium compounds                                | side the                                | e solar systems. They generally come  |
| Javelin aircraft                                  |                    | . gadolinium-gallium garnet                      |   | thin our galaxy.  |
| GS attack aircraft . fighter aircraft             |                    | minerals<br>. garnets                            | GS                                      | extraterrestrial radiation galactic radiation                                   |
| GA-5 aircraft                                     |                    | gadolinium-gallium garnet                        |   | galactic cosmic rays  |
| Hawker Siddeley aircraft                          |                    | silicon compounds                                |   | ionizing radiation  |
| . <b>GA-5 aircraft</b><br>jet aircraft            |                    | . silicates garnets                              |   | . cosmic rays galactic cosmic rays  |
| . GA-5 aircraft                                   |                    | garnets<br>gadolinium-gallium garnet             | RT                                      |   |
|   |                    |  |   |   |

## galactic evolution

energetic particles Hubble diagram . Galatea galactic winds infrared cirrus (astronomy) Neptune (planet) solar activity effects interstellar radiation solar wind irregular galaxies galaxies Vast assemblages of stars or nebulae, mass to light ratios galactic evolution nonthermal radiation composing island universes separated from galaxy formation other such assemblages by great distances.  $\infty$  radiation GS evolution (development) radiative transfer GS celestial bodies galactic evolution Solar Radiation 1 satellite . galaxies astrophysics Solar Radiation 3 satellite . . active galaxies big bang cosmology stellar radiation . . . Markarian galaxies cooling flows (astrophysics) radio galaxies Uhuru satellite cosmology . . . Seyfert galaxies dark matter Galactic Radiation Exp Background sats . . compact galaxies disk galaxies USE **GREB satellites** . . disk galaxies galactic mass . . dwarf galaxies gravitational instability galactic radio waves . . elliptical galaxies large-scale structure of the universe DEF Radio waves emanating from our gal-. . interacting galaxies . . irregular galaxies protogalaxies electromagnetic radiation . . Maffei galaxies ring galaxies star distribution . . Magellanic clouds . radio waves . . peculiar galaxies star formation rate . . extraterrestrial radio waves . . ring galaxies . . shell galaxies ... galactic radio waves stellar evolution . North Polar Spur (astronomy) stellar mass accretion extraterrestrial radiation . . spiral galaxies . extraterrestrial radio waves galactic halos . . . Andromeda Galaxy ... barred galaxies
... Milky Way Galaxy
... protogalaxies
... started a galaxies (added December 1992) . . galactic radio waves DEF The tenuous, spherical cloud surrounding spiral galaxies. It is the locus of old . North Polar Spur (astronomy) . galactic radiation . galactic radio waves stars and globular clusters. Halos appear to be . . North Polar Spur (astronomy) required, at least to some extent, for the stability . . Virgo galactic cluster RT BL Lacertae objects faint objects of disk galaxies. cosmic noise dark matter radio jets (astronomy) disk galaxies galactic bulge galactic structure galactic rotation galactic structure globular clusters GS gyration Gum nebula halos . rotation Hubble constant . . galactic rotation intergalactic media Hubble diagram corotation interstellar gas metallicity massive compact halo objects disk galaxies nebulae hydrogen clouds irregular galaxies missing mass (astrophysics) Orion nebula molecular clouds quasars stellar motions Population II stars radio sources (astronomy) stellar systems Tully-Fisher relation red shift spiral galaxies star distribution star clusters velocity distribution star formation rate galactic magnetic fields stars galactic structure USE interstellar magnetic fields stellar systems RT barred galaxies galactic mass compact galaxies Galaxy aircraft DEF The total amount of matter contained corotation USÉ C-5 aircraft density wave model in a galaxy. disk galaxies GS mass galaxy formation galactic bulge . galactic mass (added May 1997) galactic halos galactic evolution USE galactic evolution galactic structure galactic mass mass distribution galaxies galaxy groups stellar mass interacting galaxies USÉ galactic clusters irregular galaxies galactic nuclei missing mass (astrophysics) galaxy interaction USÉ interacting galaxies GS galactic nuclei peculiar galaxies active galactic nuclei ring galaxies absorption spectra shell galaxies Galerkin method accretion disks stellar systems RT linearization active galaxies ∞ structurés methodology disk galaxies Galilean satellites galactic bulge galactic winds DEF The four largest and brightest satellites radio jets (astronomy) (added May 1994) radio sources (astronomy) extraterrestrial radiation of Jupiter (Io, Europa, Ganymede, and Callisto). Seyfert galaxies . galactic radiation GS celestial bodies starburst galaxies . galactic winds . natural satellites galactic cosmic rays . . Jupiter satellites galactic radiation space plasmas ... Galilean satellites .... Callisto GS extraterrestrial radiation stellar winds . galactic radiation ... Europa . . . Ganymede . . galactic cosmic rays galactose . galactic radio waves GS organic compounds . . . lo ... North Polar Spur (astronomy) . carbohydrates Charon . galactic winds . . sugars Galileo project active galactic nuclei ... monosaccharides Galileo spacecraft active galaxies ... hexoses icy satellites brightness distribution . . . . . galactose Jupiter (planet) corpuscular radiation Triton cosmic noise Galatea cosmic rays (added July 1995) Galileo mission cosmic x rays DEF A natural satellite of Saturn, orbiting at USE Galileo project electromagnetic radiation a mean distance of 62,000 kilometers. gamma ray astronomy GS celestial bodies Galileo probe

. natural satellites

. . Neptune satellites

The NASA Jupiter atmospheric entry

probe to be deployed from the Galileo space-

gamma ray bursts

gamma ray sources (astronomy)

game theory craft. The probe will make in situ measurements superconductivity RT semiconductors (materials) while descending from a parachute. gallium oxides GS interplanetary spacecraft gallium antimonides GS chalcogenides . Jupiter probes GS antimony compounds . oxides Galileo probe antimonides . . metal oxides unmanned spacecraft . . gallium antimonides . space probes . gallium oxides gallium compounds gallium compounds . gallium oxides . . Jupiter probes gallium antimonides ... Galileo probe RT Jupiter (planet) gallium arsenide lasers gallium phosphides ∞ probes GS gallium compounds
gallium phosphides
phosphorus compounds GS electronic equipment ∞ spacecraft solid state devices . . semiconductor devices Galileo project . . . semiconductor lasers . phosphides DEF A NASA program to probe Jupiter, its . . . . gallium arsenide lasers . . gallium phosphides environment and natural satellites. The space-. . solid state lasers craft was placed in Earth orbit by the Space . gallium arsenide lasers gallium selenides Transportation System (STS) on October 18, stimulated emission devices GS chalcogenides 1989. Used for Galileo mission. . lasers . selenides Galileo mission UF . . semiconductor lasers . gallium selenides GS programs gallium compounds . . . gallium arsenide lasers . NASA programs . . NASA space programs . . . Galileo project . . solid state lasers gallium selenides selenium compounds . . gallium arsenide lasers aluminum gallium arsenide lasers . selenides . projects injection lasers . . gallium selenides Galileo project stimulated emission . space programs waveguide lasers galvanic cells . . NASA space programs USE electrolytic cells Amphitrite asteroid atmospheric entry gallium arsenides galvanic skin response GS arsenic compounds electrodermal response . arsenides flyby missions Galilean satellites GS responses . . gallium arsenides . galvanic skin response . . . aluminum gallium arsenides Jupiter atmosphere electrical resistance . . indium gallium arsenides Jupiter probes gallium compounds gallium arsenides Galileo spacecraft galvanizing . aluminum gallium arsenides DEF A NASA orbiter spacecraft which will carry the Galileo probe and, following deploy-USE zinc coatings . indium gallium arsenides antisite defects ment at Jupiter, will become an orbiting platform galvanomagnetic effects Bragg reflectors for remote sensing of Jupiter and its satellites. galvanomagnetism galvanomagnetic effects Gunn diodes interplanetary spacecraft heterojunction devices . Jupiter probes Hall effect Galileo spacecraft injection lasers . Nernst-Ettingshausen effect MODFETS unmanned spacecraft . quantum Hall effect negative conductance negative electron affinity . space probes RT ∞ effects . . Jupiter probes negative resistance devices quantum well infrared photodetectors Galileo spacecraft galvanomagnetism flyby missions USE galvanomagnetic effects Schottky diodes Galilean satellites Gaspra asteroid semiconductor lasers galvanometers superlattices Ida asteroid measuring instruments transferred electron devices Jupiter (planet) galvanometers ∞ missions ammeters ∞ spacecraft gallium compounds electrometers micromilliammeters gallium compounds . gadolinium-gallium garnet . gallates gall millivoltmeters digestive system thermocouple pyrometers gastrointestinal system . . sodium gallates Gambia secretions gallium antimonides GS nations gallium arsenides gallamine triethiodide Gambia aluminum gallium arsenides ethers RT Africa indium gallium arsenides gallamine triethiodide gallium nitrides halogen compounds game theory gallium oxides DEF Application of mathematics to a game, . iodine compounds gallium phosphides . . iodides gallium selenides . . gallamine triethiodide gain or minimize loss. RT ∞ chemical compounds game theory organic compounds ∞ Group 3A compounds saddle points (game theory) . amines ∞ metal compounds . . gallamine triethiodide decision theory deployment gallium isotopes GS chemical elements

## gallates

GS gallium compounds

gallates

. . sodium gallates

## gallium

chemical elements

. gallium

. gallium isotopes metals

. gallium

. . gallium isotopes

## gallium alloys

allovs GS

gallium alloys aluminum alloys indium alloys

gallium nitrides

gallium compounds

. gallium

. nuclides

metals

. gallium

. . isotopes

gallium nitrides

nitrogen compounds

. gallium isotopes

. . gallium isotopes

... gallium isotopes

. nitrides

. . metal nitrides . . . gallium nitrides business situation, or other problem to maximize

games

information theory linear programming

martingales mathematical models

mathematical programming minimax technique

Monte Carlo method operations research probability theory

risk saddle points

simulation statistical analysis

statistical decision theory stochastic processes

strategy

∞ theories

war games

#### games

(added October 1998)

games

- differential games
- pursuit-evasion games
- war games
- . zero sum games control theory

game theory optimization

## gametocytes

oocytes UF

spermatocytes

cells (biology)

- gametocytes
- . . eggs
- . . . zygotes
- . spermatozoa

spermatogenesis

### gamma function

GS analysis (mathematics)

- . complex variables
- gamma function

functions (mathematics)

gamma function

factorials

statistical distributions

## gamma globulin

GS antibodies

gamma globulin

biopolymers

- . proteins
- . . globulins

. . gamma globulin

organic compounds

- . proteins
- . . globulins
- ... gamma globulin

gamma radiation

USE gamma rays

## gamma ray absorptiometry

density measurement

gamma ray absorptiometry

absorption spectra

densitometers

electromagnetic absorption energy absorption

 $\quad \quad \text{measurement} \quad \quad$ 

photon absorptiometry

radiation absorption

## gamma ray absorption

GS energy absorption

- . radiation absorption
- . . electromagnetic absorption . . . gamma ray absorption

RT ∞ absorption

electromagnetic properties electromagnetic radiation ionizing radiation

nuclear radiation

photon absorptiometry

### gamma ray astronomy

DEF Astronomy based on the detection of gamma ray emission and interactions from supernova remnants, neutron stars, flare stars, galactic core and disc, black holes, etc.

GS astronomy

## gamma ray astronomy

astrophysics cosmic x rays

energy spectra galactic radiation

gamma ray bursts gamma ray sources (astronomy) gamma ray telescopes

Granat satellite HEAO 4

radio astronomy soft gamma repeaters

Swift observatory

x ray astronomy

Gamma Ray Astronomy Explorer

USE Explorer 11 satellite

### gamma ray beams

GS beams (radiation)

. gamma ray beams

electromagnetic radiation gamma ray beams

ionizing radiation

gamma ray beams

nuclear radiation gamma ray beams

photon beams radioactive decay

gamma ray bursts
DEF Short (about 0. 1 - 4 sec.) intense low-energy (about 0. 1 - 1. 2 MeV) bursts recorded by the Vela satellite system in 1967. Their isotropic distribution suggests an extragalactic origins but a palactic disk origin cannot be lactic origin, but a galactic disk origin cannot be ruled out. Used for cosmic gamma ray bursts.

cosmic gamma ray bursts

GS bursts

gamma ray bursts electromagnetic radiation

. gamma rays

. gamma ray bursts

extraterrestrial radiation

gamma ray bursts

ionizing radiation

. cosmic rays

. gamma ray bursts

gamma rays

. gamma ray bursts

nuclear radiation

. gamma rays

. gamma ray bursts

big bang cosmology

bremsstrahlung

Cerenkov radiation

cosmic x rays

galactic radiation

gamma ray astronomy interstellar radiation

nuclear particles radiant flux density

soft gamma repeaters starquakes stellar radiation

Swift observatory

x ray astronomy

## gamma ray lasers

DEF Stimulated emission devices produc-

ing coherent gamma radiation.

GS stimulated emission devices

. lasers

. gamma ray lasers

coherent light light transmission

optical pumping

pulsed radiation

## **Gamma Ray Observatory**

DEF A late 1980s NASA mission to explore the gamma ray window to the universe from 0.

06 MeV to 30 GeV. Compton Gamma Ray Observatory

artificial satellites

. scientific satellites

. . astronomical satellites . . Gamma Ray Observatory

observatories

. astronomical observatories

. . astronomical satellites

... Gamma Ray Observatory gamma ray telescopes

ŏgo

spaceborne astronomy

spaceborne telescopes

# gamma ray sources (astronomy) (added October 1997)

(LIMITED TO ASTRONOMICAL SOURCES; EXCLUDES RADIATION DEVICES) gamma ray sources (astronomy)

. soft gamma repeaters

RT COS-B satellite

galactic radiation

gamma ray astronomy

radio sources (astronomy)

spectral counterparts (astronomy)

Swift observatory x ray sources

## gamma ray spectra

DEF The energy distribution of gamma rays

emitted by nuclei. GS spectra

. radiation spectra

. . electromagnetic spectra

. . gamma ray spectra

emission spectra

ionizing radiation

### gamma ray spectrometers

DEF Instruments for deriving the physical constants of materials by using induced gamma radiation as the emission source.

GS measuring instruments

. spectrometers

. . gamma ray spectrometers 2001 Mars Odyssey anticoincidence detectors optical measurement

scintillating fibers Solar Maximum Mission

spectra spectrum analysis

gamma ray telescopes DEF Special telescopes for the observation (and recording) of astronomical phenomena in

the gamma ray spectrum.

GS telescopes gamma ray telescopes

cosmic rays

Swift observatory

gamma ray astronomy Gamma Ray Observatory scintillating fibers

gamma rays

(EMITTED BY NUCLEI)

Quantums of electromagnetic radiation emitted by nuclei, each such photon being emitted as the result of a quantum transition be-tween two energy levels of the nucleus. Gamma rays have energies usually between 10 thou-sand electron volts and 10 million electron volts with correspondingly short wavelengths and high frequencies. Used for gamma radiation.

gamma radiation

electromagnetic radiation

. gamma rays . gamma ray bursts

ionizing radiation . gamma rays

gamma ray bursts

nuclear radiation . gamma rays

. gamma ray bursts bremsstrahlung Cerenkov radiation

cosmic rays cosmic x rays

decay emission spectra flux (rate)

flux density monochromatic radiation Mossbauer effect

photomagnetic effects photons

∞ radiation radiation effects radiation shielding

radioactive decay radioactivity

∞ rays scintillating fibers transverse oscillation transverse waves

Wind/GGS spacecraft

|                       | x rays   |   | vests   |               | separation of volatile constituents of a   |
|-----------------------|--|---|---|---------------|--|
| aanalia               |  | garnets                                 |   |               | by means of gas flow entrainment, va-<br>ssure differences, and affinity of specific |
| ganglia<br>GS         | anatomy  | DEF                                     | Groups of minerals that are silicates of          |               | inds for various liquids or solid materials.   |
| 00                    | . nervous system   | cubic c                                 | rystalline form.                                  |               | chemical tests   |
|                       | nerves   | GS                                      | minerals  |               | . chemical analysis  |
|                       | ganglia  |   | . garnets   |               | chromatography   |
| RT                    | cells (biology)  |   | gadolinium-gallium garnet yttrium-aluminum garnet | рт            | gas chromatography   |
|                       | neuroglia<br>neurophysiology   |   | yttrium-iron garnet                               | RT            | adsorption paper chromatography  |
|                       | Tiedrophysiology   |   | silicon compounds                                 |               | sorption   |
| gantries              |  |   | silicates   |               | thin layer chromatography  |
| USE                   | gantry cranes  |   | garnets   |               |  |
|                       |  |   | gadolinium-gallium garnet                         |               | mposition  |
| gantry o              |  |   | yttrium-aluminum garnet                           | GS            | composition (property) . gas composition   |
| DEF                   | 0  | RT                                      | yttrium-iron garnet eclogite                      |               | carbon dioxide concentration   |
|                       | ally run back and forth on parallel tracks<br>he work area. Used for gantries. | • | lasers  | RT            | atmospheric composition  |
| UF                    | gantries   |   |   |               | atom concentration   |
|                       | handling equipment   | GARP                                    |   |               | chemical composition   |
|                       | . cranes   | USE                                     | Global Atmospheric Research                       |               | Dalton law expired air   |
| DT                    | gantry cranes  |   | Program   |               | ionospheric composition  |
| RT                    | ground support equipment launching pads  | GARP                                    | Atlantic Tropical Experiment                      |               | plasma composition   |
|                       | launching sites  | UF                                      | GATE (experiment)                                 |               | polar gases  |
|                       | umbilical towers   | GS                                      | programs  | gae co.       | oled fast reactors   |
|                       |  |   | . Global Atmospheric Research                     | GS GS         | nuclear reactors   |
| Ganyme                |  |   | Program GARP Atlantic Tropical                    | 00            | . fast nuclear reactors  |
| DEF                   | A satellite of Jupiter orbiting at a mean                                      |   | Experiment  |               | gas cooled fast reactors   |
| distance<br>Jupiter I | of 1,071,000 kilometers. Also called   | RT                                      | Atlantic Ocean                                    |               | . gas cooled reactors  |
| GS                    | celestial bodies   |   | intertropical convergent zones                    |               | gas cooled fast reactors   |
| 00                    | . natural satellites   |   | meteorology                                       | gas cod       | oled reactors  |
|                       | icy satellites   |   | NASA programs                                     | UF            |  |
|                       | Ganymede   |   | oceanography<br>tropical meteorology              | GS            | nuclear reactors   |
|                       | Jupiter satellites   |   | tropical melectrology<br>tropical regions         |               | gas cooled reactors  |
|                       | Galilean satellites  |   | weather forecasting                               |               | experimental gas cooled reactors   |
| RT                    | Ganymede<br>Callisto   |   | Ğ   |               | gas cooled fast reactors   |
| 111                   | Charon   | gas an                                  |   |               | high temperature nuclear reactors high temperature gas cooled                        |
|                       | lo   | GS                                      | chemical tests                                    |               | reactors   |
|                       | Jupiter (planet)   |   | . chemical analysis gas analysis                  |               | KIWI reactors  |
|                       |  |   | ozonometry  |               | KIWI B reactors  |
|                       | opellants)   |   | Van Slyke method                                  |               | KIWI B-1 Reactor   |
| USE                   | glycidyl azide polymer   | RT                                      | air sampling                                      |               | KIWI B-4 Reactor   |
| aane                  |  |   | flame probes                                      |               | Tory 2 reactor<br>Tory 2-A reactor   |
| gaps<br>GS            | gaps   |   | Hopcalite (trademark)                             |               | . Tory 2-C reactor   |
|                       | . energy gaps (solid state)  | ,                                       | mass spectrometers<br>∞ materials tests           | RT •          | ∞ gas reactors   |
|                       | . spark gaps   | ,                                       | oxygen analyzers                                  |               | -1   |
|                       | arresters  |   | qualitative analysis                              | gas coo<br>SN | (COOLING WITH GAS)   |
| ~                     | breakdown  |   | quantitative analysis                             | GS            | cooling  |
| ~                     | crack opening displacement<br>holes  |   | volumetric analysis                               |               | . gas cooling  |
| ~                     | openings   |   |   | RT            | coolants   |
|                       | orifices   |   | omization Atomization of fluids by high velocity  |               | freon  |
|                       | passageways  | gas jets                                |   |               | heat exchangers  |
|                       | quantum wells  | GS                                      | atomizing   | gas dei       | nsity  |
| ~                     | tunnels  |   | . gas atomization                                 | GS            | density (mass/volume)  |
| gaps (g               | eology)  | RT                                      | aerosols  |               | gas density  |
|                       | Ravines or gorges cut deeply through   |   | collisions  | RT            |  |
|                       | ain ridge, or between hills or mountains.                                      |   | comminution<br>liquid atomization                 |               | buoyancy<br>convective flow  |
| Used for              | cols and passes.   |   | particles   |               | gaseous diffusion  |
| UF                    | cols   |   |   |               | ideal gas  |
| 00                    | passes   | gas ba                                  |   |               | probability density functions  |
| GS                    | geology  | GS                                      | bags  |               | rarefied gases   |
|                       | . gaps (geology)<br>landforms  |   | . gas bags  |               | real gases   |
|                       | . gaps (geology)   |   | expandable structures . inflatable structures     | gas det       | tectors  |
| RT                    | mountains  |   | gas bags  | RT            |  |
| ~                     | ridges   | RT                                      | balloons  | ۰             | detectors  |
|                       |  |   | high altitude balloons                            |               | haze detection   |
| garbage               |  |   |   |               | identifying  |
| GS                    | wastes   | gas be                                  | •   |               | indicating instruments monitors  |
| RT                    | . garbage composting   | UF                                      | air bearings<br>gas lubricated bearings           | ۰             | ∘ probes   |
|                       | organic wastes (fuel conversion)   | GS                                      | bearings  |               | ⇒ sensors  |
|                       | sewers   |   | . gas bearings                                    |               | smoke detectors  |
|                       | solid wastes   | RT                                      | antifriction bearings                             |               | warning systems  |
|                       | utilities  |   | fluid films                                       | gas diff      | usion  |
|                       | waste disposal   |   | foil bearings                                     |               | gaseous diffusion  |
|                       | waste treatment  |   | high temperature lubricants                       |               | _  |
| garmen                | ts   |   | squeeze films<br>thrust bearings                  |               | charge counters  |
| GS                    | clothing   |   | turbine engines                                   | USE           | counters<br>gas discharge tubes  |
|                       | . garments   |   | <u> </u>  |               | gas alsolialye lubes   |
| RT                    | flight clothing  |   | romatography                                      |               | charge tubes   |
|                       | suits  | DEF                                     | A method of chemical analysis involv-             | DEF           | Evacuated enclosures containing a  |

gas at low pressure that permits the passage of electricity through the gas upon application of sufficient voltage. Note: The tubes are usually provided with metal electrodes, but one form permits an electrodeless discharge with induced voltage. Used for discharge tubes and gas discharge counters. discharge tubes gas discharge counters GS electron tubes . gas discharge tubes ignitrons . thyratrons

RT Faraday dark space ∞ gas tubes microwave equipment microwave oscillators microwave tubes phototubes radiation counters

## gas discharges

GS electric current . electric discharges . . Townsend discharge ... gas discharges . . . toroidal discharge . . . ring discharge RT afterglows cold cathode tubes

cold cathodes electric arcs electric sparks electrodeless discharges electron avalanche glow discharges lightning polar gases

### gas dissociation

GS dissociation

gas dissociation thermal dissociation

## gas dynamics

GS fluid mechanics

. fluid dynamics

. gas dynamics

. . . aerodynamics

. . . aerothermodynamics

. . . . hypersonics

. . . rotor aerodynamics

... supersonics

. . . . unsteady aerodynamics

... interactional aerodynamics

. . rarefied gas dynamics

RT Dalton law

∞ dynamics gas path analysis gaseous diffusion gaseous self-diffusion

gases

hydrodynamic equations

hydrodynamics jet membrane process kinetics

Lorentz gas

magnetohydrodynamics ∞ mechanics (physics)

molecular gases polar gases thermodynamics wave rotors

gas evacuating

USE evacuating (vacuum)

## gas evolution

GS evolution (liberation) gas evolution RT degassing outgassing transpiration

## gas exchange

GS exchanging

gas exchange

RT oxygen production

## gas expansion

expansion GS

gas expansion

Joule-Thomson effect pressure reduction

## gas explosions

GS explosions

. chemical explosions

gas explosions

detonable gas mixtures detonation waves flame propagation flammable gases

underground explosions

#### gas flow

UF gaseous cavitation

GS fluid flow

## . gas flow

. . air flow . . . air currents

. . . . jet streams (meteorology)

. . . . meridional flow

... vertical air currents

.. continuum flow

. . cooling flows (astrophysics)

. . equilibrium flow

... frozen equilibrium flow

shifting equilibrium flow

. . free molecular flow

. . Knudsen flow

. . molecular flow

... slip flow ... transition flow

. . nonequilibrium flow . . pipe flow

air ducts

air jets

compressible flow

critical flow

Crocco-Lee theory

gas path analysis gasdynamic lasers

gaseous diffusion

gases

geophysical fluid flow cells

hydraulic analogies hypersonic flow

incompressible flow

inviscid flow Joule-Thomson effect

laminar flow

liquid flow

magnetohydrodynamic flow

mass flow

molecular relaxation

molecular trajectories

multiphase flow

nonuniform flow

orifice flow

∞ pressure drop

radial flow

single-phase flow

steady flow steam flow

streams

subcritical flow

subsonic flow

supercritical flow

supersonic flow

supersonic jet flow

transonic flow

turbulent flow

two phase flow

uniform flow

unsteady flow vapor jets

viscous flow

gas generators

gas generator engines USE engines

# gas generators

DEF A device used to generate gases in the laboratory; a chemical plant for producing gas from coal, for example, water gas. Used for gas generator engines.

UF gas generator engines

chemical reactors

∞ generators

pneumatic equipment

pressurizing vaporizers

wave rotors

### gas giant planets

DEF The giant planets, Jupiter, Saturn, Uranus, and Neptune, of our solar system.

GS celestial bodies

. planets

## . gas giant planets

. . . Jupiter (planet)

Neptune (planet)

. . . Saturn (planet)

. . Uranus (planet)

RT extrasolar planets

Jupiter red spot

Neptune atmosphere

planetary composition Saturn rings

solar system

Uranus atmosphere

## gas guns

gas guns GS

. light gas guns atmospheric entry RT

ballistics

∞ guns hypervelocity guns

wind tunnels

### gas heating

GS heating gas heating

arc heating kinetic heating

plasma heating

radiant heating

resistance heating thermal diffusion

# gas injection

GS injection

. fluid injection . gas injection

formations

fuel injection

inflating

perforating

plasma pumping

porosity

pressurizing

stimulation

water injection

### gas ionization GS ionization

. gas ionization

. . atmospheric ionization

... auroral ionization . flame ionization

RT afterglows

electron attachment helium afterglow

ionized gases ionizers

Penning discharge

Penning effect photoionization

plasma display devices ring discharge

gas jets GS fluid jets

gas jets air jets cold gas ∞ iets

## gas lasers

GS stimulated emission devices

. lasers . . gas lasers

... carbon dioxide lasers

|                                      | carbon monoxide lasers   |   | binary mixtures  |               | . gas temperature  |
|--------------------------------------|--|---|--|---------------|--|
|                                      | DF lasers  |   | controlled atmospheres   | RT            | atmospheric temperature  |
|                                      | excimer lasers   |   | eudiometers  | 17.1          | inlet temperature  |
|                                      | HCL lasers   |   | exhaust gases  |               | ionized gases  |
|                                      |  |   | fuel-air ratio   |               | rarefied gases   |
|                                      | HCL argon lasers<br>HCN lasers   |   |  |               | shock tubes  |
|                                      | helium-neon lasers   |   | fumes gaseous rocket propellants   |               | shock waves  |
|                                      | HF lasers  |   |  |               |  |
|                                      |  |   | helium-oxygen atmospheres<br>hydrogen-based energy   |               | temperature measurement  |
|                                      | nitrogen lasers  |   | , ,  | ane tra       | nenart   |
|                                      | rare gas-halide lasers   |   | ignition limits  | gas tra<br>SN | (ENCOMPASSES GAS   |
|                                      | krypton fluoride lasers  |   | laminar mixing   | SIN           | DYNAMICSEXCLUDES MATERIALS   |
|                                      | xenon chloride lasers  |   | Lighthill gas model  |               | HANDLING)  |
|                                      | xenon fluoride lasers  |   | liquefied gases  | RT            | energy transfer  |
|                                      | TEA lasers   |   | liquid-gas mixtures  |               | gaseous diffusion  |
|                                      | ultraviolet lasers   |   | mixing ratios  |               | heat transfer  |
| RT                                   | carbon lasers  |   | premixed flames  |               | kinetic theory   |
|                                      | chemical lasers  |   | premixing  |               | Lighthill gas model  |
|                                      | electron pumping   |   | and the state of t |               | magnetohydrodynamics   |
|                                      | gasdynamic lasers  |   | th analysis  |               | mass transfer  |
|                                      | infrared lasers  | DEF   | Mathematical process of determining  |               | pollution transport  |
|                                      | Mach-Zehnder interferometers   |   | engine performance, individual module  |               | transport theory   |
|                                      | molecular oscillations   |   | ances and sensor performances from   |               |  |
|                                      | nuclear pumping  | any sp  | ecific set of engine related measure-  | ∞ gas tul     | bes  |
|                                      | organic lasers   | ments.  |  | SN            | (USE OF A MORE SPECIFIC TERM IS  |
|                                      | polar gases  | RT  | gas dynamics   |               | RECOMMENDEDCONSULT THE TERMS   |
|                                      | pulsed lasers  |   | gas flow   |               | LISTED BELOW)  |
|                                      | Q switched lasers  |   |  | RT            | cold cathode tubes   |
|                                      | stimulated emission  | gas pha   | ases   |               | gas discharge tubes  |
|                                      | water masers   | USE   | vapor phases   |               | gas pipes  |
|                                      | water masers   |   |  |               | trigatrons   |
| gas liqu                             | efaction   | gas pip   | es   |               |  |
|                                      | condensing   | GS  | pipes (tubes)  | gas tur       | ngsten arc welding   |
| UUL                                  | Condensing   |   | . gas pipes  | UF            | TIG welding  |
| goo lub                              | ricanta  | RT a  | ∘ gas tubes  |               | tungsten inert gas welding   |
| gas lub                              |  | 1(1)  | · gas tabes  | GS            | welding  |
| GS                                   | lubricants   | gas po  | ckote  | 00            | . fusion welding   |
|                                      | . gas lubricants   |   |  |               |  |
| RT                                   | gaseous diffusion  | RT  | cavities   |               | electric welding   |
|                                      | high temperature lubricants  |   | evacuating (vacuum)  |               | arc welding  |
|                                      | metal-gas systems  |   |  |               | gas tungsten arc welding   |
|                                      | solid lubricants   | gas pre   | essure   | RT            | heat affected zone   |
|                                      | squeeze films  | GS  | pressure   |               |  |
|                                      |  |   | . gas pressure   | gas tur       | bine engines   |
| gas lubr                             | icated bearings  | RT  | atmospheric pressure   | GS            | engines  |
| USE                                  | gas bearings   |   | compressed gas   |               | . air breathing engines  |
|                                      | gas bearings   |   |  |               |  |
|                                      |  |   | internal pressure  |               | gas turbine engines  |
| ase ma                               | care   |   | internal pressure  |               | . gas turbine engines  |
| gas ma                               |  |   | internal pressure partial pressure   |               | hydrogen engines   |
| gas mas                              | stimulated emission devices  | ∞ das rea   | partial pressure   |               | hydrogen engines jet engines   |
| -                                    | stimulated emission devices . masers   | ∞ gas rea   | partial pressure   |               | hydrogen engines<br>jet engines<br>T-58 engine   |
| -                                    | stimulated emission devices . masers gas masers  | ∞ <b>gas re</b> a<br>SN                               | partial pressure actors (USE OF A MORE SPECIFIC TERM IS  |               | hydrogen engines<br>jet engines<br>T-58 engine<br>ramjet engines   |
| GS                                   | stimulated emission devices . masers gas masers hydrogen masers  |   | partial pressure   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets  |
| -                                    | stimulated emission devices . masers gas masers  |   | partial pressure  actors (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines  |
| GS                                   | stimulated emission devices . masers gas masers hydrogen masers  | SN  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines   |
| GS                                   | stimulated emission devices . masers gas masers hydrogen masers argon lasers   | SN  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet  |
| GS                                   | stimulated emission devices<br>. masers<br>gas masers<br>hydrogen masers<br>argon lasers<br>atomic clocks  | SN  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines   |
| GS                                   | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers   | SN<br>RT  | partial pressure  actors (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet  |
| GS                                   | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers   | SN<br>RT<br>gas rec                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines   |
| GS                                   | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases   | SN<br>RT<br>gas rec                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines   |
| GS                                   | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission   | SN<br>RT<br>gas rec                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593   |
| GS                                   | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers  | SN<br>RT<br><b>gas rec</b><br>GS                      | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation materials recovery gas recovery  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines suplesjet engines supersonic combustion ramjet engines turboramjet engines turboramjet engines turbojet engines Bristol-Siddeley Olympus 593 engine  |
| GS                                   | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission   | SN<br>RT<br>gas rec                                   | partial pressure  Actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine  |
| GS<br>RT                             | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers   | SN<br>RT<br><b>gas rec</b><br>GS                      | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery . gas recovery energy technology exhaust gases   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine Bristol-Siddeley Viper engine  |
| GS<br>RT<br>gas mei                  | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers   | SN<br>RT<br><b>gas rec</b><br>GS                      | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine  |
| GS<br>RT                             | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers ers measuring instruments   | SN<br>RT<br>gas rec<br>GS<br>RT                       | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine   |
| GS<br>RT<br>gas mei                  | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters   | SN<br>RT<br>gas rec<br>GS<br>RT                       | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases recovery   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine  |
| GS<br>RT<br>gas med<br>GS            | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters gas meters  | SN<br>RT<br>gas rec<br>GS<br>RT                       | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine   |
| GS<br>RT<br>gas mei                  | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers  measuring instruments . flowmeters . gas meters flow measurement  | gas rec<br>GS<br>RT                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-57 engine   |
| GS<br>RT<br>gas med<br>GS            | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters gas meters  | gas rec<br>GS<br>RT                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  petroscopy   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-57 engine J-58 engine   |
| GS<br>RT<br>gas med<br>GS<br>RT      | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers ers measuring instruments . flowmeters gas meters flow measurement Venturi tubes  | gas rec<br>GS<br>RT                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-58 engine J-58 engine J-58 engine  |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures  | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy . gas spectroscopy . gas spectroscopy  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-58 engine J-65 engine J-69-T-25 engine  |
| GS<br>RT<br>gas med<br>GS<br>RT      | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers ers measuring instruments . flowmeters gas meters flow measurement Venturi tubes  | gas rec<br>GS<br>RT                                   | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-58 engine J-58 engine J-58 engine  |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures  | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy . gas spectroscopy . gas spectroscopy  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-58 engine J-65 engine J-69-T-25 engine  |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers  measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases   | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy chemical analysis   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-58 engine J-58 engine J-69-T-25 engine J-69-T-25 engine J-71 engine  |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . gas mixtures  | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  ctroscopy spectroscopy gas spectroscopy chemical analysis chemical tests flame spectroscopy  |               | hydrogen engines jet engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-47 engine J-52 engine J-55 engine J-55 engine J-65 -T-25 engine J-71 engine J-73 engine   |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . gas mixtures . air alveolar air  | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases - recovery wastes  cetroscopy spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy magnetic spectroscopy magnetic spectroscopy   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-58 engine J-59 engine J-69-T-25 engine J-73 engine J-73 engine J-75 engine J-75 engine J-75 engine J-75 engine J-75 engine   |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . gas mixtures air alveolar air compressed air   | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy magnetic spectroscopy mass spectroscopy   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine J-47 engine J-52 engine J-55 engine J-55 engine J-69-T-25 engine J-73 engine J-73 engine J-75 engine J-75 engine J-75 engine J-75 engine J-79 engine J-79 engine J-85 engine  |
| GS RT gas med GS RT gas mix          | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . gas mixtures air alveolar air expired air  | gas rec<br>GS<br>RT<br>gas spr<br>GS                  | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery  reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy optogalvanic spectroscopy optogalvanic spectroscopy  |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turbojet engines turbojet engines sturbojet engines bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-44 engine J-52 engine J-57 engine J-58 engine J-69-T-25 engine J-71 engine J-73 engine J-73 engine J-73 engine J-75 engine J-79 engine J-79 engine J-79 engine J-79 engine  |
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| GS RT gas med GS RT gas mix          | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . gas mixtures . air . alveolar air . bigh temperature air . liquid air . detonable gas mixtures mixtures . solutions . gas mixtures air alveolar air detonable gas mixtures mixtures solutions . gas mixtures air alveolar air compressed air compressed air  | gas rec<br>GS<br>RT<br>gas spr<br>GS<br>RT            | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases - recovery wastes  cetroscopy spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy magnetic spectroscopy spectroscopy spectroscopy optogalvanic spectroscopy spectroscopic analysis vacuum spectroscopy visible spectrum  eams gases . gas streams jet flow  |               | hydrogen engines jet engines T-58 engine T-58 engine . ramjet engines . integral rocket ramjets . low volume ramjet engines . pulsejet engines . supersonic combustion ramjet engines . turboramjet engines . turbojet engines . turbojet engines . turbojet engines . Bristol-Siddeley Olympus 593 engine . Bristol-Siddeley Viper engine . ducted fan engines . J-33 engine . J-34 engine . J-52 engine . J-52 engine . J-55 engine . J-55 engine . J-69-T-25 engine . J-71 engine . J-73 engine . J-73 engine . J-79 engine . J-79 engine . J-93 engine . T-70 engine . CF-700 engine . Convertible fan-shaft engines . J-97 engine . TF-34 engine . TF-41 engine . TF-41 engine . TF-41 engine   |
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| GS RT gas med GS RT gas mix          | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . air alveolar air compressed air high temperature air . iliquid air alveolar air detonable gas mixtures mixtures . solutions . gas mixtures air alveolar air detonable gas mixtures mixtures . solutions . gas mixtures air alveolar air compressed air expired air high temperature air liquid high temperature air alveolar air alveolar air  | gas rec<br>GS<br>RT<br>gas spr<br>GS<br>RT            | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  actroscopy spectroscopy . gas spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy spectroscopic analysis vacuum spectroscopy visible spectrum  acms gases . gas streams streams . gas streams jet flow laminar flow turbulence   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-47 engine J-52 engine J-52 engine J-58 engine J-69-T-25 engine J-71 engine J-73 engine J-75 engine J-79 engine J-79 engine J-79 engine J-79 engine T-790 engine CF-700 engine TF-30 engine TF-34 engine TF-34 engine TF-34 engine TF-34 engine T-34 engine T-34 engine  |
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| gas med<br>GS<br>RT<br>gas mix<br>GS | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . air alveolar air expired air liquid air detonable gas mixtures mixtures . sair alveolar air devolar air detonable gas mixtures mixtures . solutions . gas mixtures air alveolar air detonable gas mixtures mixtures air alveolar air iquid air liquid air liquid air liquid air alveolar air alveolar air compressed air expired air liquid air liquid air liquid air high temperature air liquid air liquid air high temperature air liquid air detonable gas mixtures argon-oxygen atmospheres | gas rec<br>GS<br>RT<br>gas sp<br>GS<br>RT<br>GS<br>RT | partial pressure  Cutors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  cetroscopy spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy magnetic spectroscopy spectroscopy optogalvanic spectroscopy visible spectrum  ceams gases gases gas streams jet flow laminar flow turbulence wind tunnels   |               | hydrogen engines jet engines T-58 engine ramjet engines . integral rocket ramjets . low volume ramjet engines . pulsejet engines . supersonic combustion ramjet engines . turboramjet engines . turbojet engines . turbojet engines . turbojet engines . Bristol-Siddeley Olympus 593 engine . Bristol-Siddeley Viper engine . ducted fan engines . J-33 engine . J-47 engine . J-52 engine . J-52 engine . J-55 engine . J-65 engine . J-75 engine . J-79 engine . J-75 engine . T-700 engine . CF-700 engine . TF-30 engine . TF-34 engine . TF-34 engine . TF-34 engine . TF-34 engine . TF-35 engine . T-55 engine . T-55 engine . T-55 engine   |
| gas med<br>GS<br>RT<br>gas mix<br>GS | stimulated emission devices . masers . gas masers hydrogen masers argon lasers atomic clocks carbon dioxide lasers frequency standards interstellar masers polar gases stimulated emission TEA lasers water masers  ers measuring instruments . flowmeters . gas meters flow measurement Venturi tubes  tures gases . air alveolar air expired air high temperature air liquid air . detonable gas mixtures mixtures . air alveolar air devonabres solutions . gas mixtures air devonabres air alveolar air devonabres air alveolar air devonabres air alveolar air alveolar air compressed air expired air liquid air liquid air liquid air alveolar air alveolar air   | gas rec<br>GS<br>RT<br>gas sp<br>GS<br>RT<br>GS<br>RT | partial pressure  actors  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) chemical reactors gas cooled reactors gas cooled reactors gaseous fission reactors  covery reclamation . materials recovery . gas recovery energy technology exhaust gases gaseous diffusion gases recovery wastes  actroscopy spectroscopy . gas spectroscopy chemical analysis chemical tests flame spectroscopy magnetic spectroscopy spectroscopic analysis vacuum spectroscopy visible spectrum  acms gases . gas streams streams . gas streams jet flow laminar flow turbulence   |               | hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-47 engine J-52 engine J-57 engine J-58 engine J-69-T-25 engine J-73 engine J-73 engine J-73 engine J-75 engine J-79 engine J-79 engine J-79 engine J-79 engine J-79 engine J-85 engine J-93 engine J-93 engine J-93 engine T-79 engine J-93 engine T-79 engine J-93 engine T-79 engine T-700 engine CF-700 engine TF-34 engine TF-35 engine  |

| T-64 engine   | turbofan engines   | tube lasers  |
|---|--|--|
| T-74 engine   | Bristol-Siddeley BS 53 engine  | 100010   |
| T-76 engine   | CF-700 engine  | ganagua gavitation   |
| T-78 engine   | convertible fan-shaft engines  | gaseous cavitation   |
| turboramjet engines   | J-97 engine  | USE cavitation flow qas flow   |
| . internal combustion engines   | TF-30 engine   | gas now  |
| gas turbine engines   | TF-34 engine   | gassaus diffusion  |
|   | TF-41 engine   | gaseous diffusion  |
| hydrogen engines  | turboprop engines  | DEF A method of isotopic separation based  |
| jet engines   | T-34 engine  | on the fact that gas atoms or molecules with   |
| T-58 engine   | T-38 engine  | different masses will diffuse through a morous   |
| ramjet engines  | T-53 engine  | barrier (orm membrane) at different rates. The method is used to separate uranium 235 from   |
| integral rocket ramjets   | T-55 engine  | uranium 238. It requires large gaseous diffusion   |
| low volume ramjet engines   | T-56 engine  | plants and enormous amounts of electric power.   |
| pulsejet engines  | T-63 engine  | UF gas diffusion   |
| supersonic combustion ramjet  | T-64 engine  | GS diffusion   |
| engines turboramjet engines   | T-74 engine  | gaseous diffusion  |
| turbojet engines  | T-76 engine  | . gaseous self-diffusion   |
| Bristol-Siddeley Olympus 593  | T-78 engine  | transport properties   |
| engine  | turboramjet engines  | gaseous diffusion  |
| Bristol-Siddeley Viper engine   | RT aircraft engines  | gaseous self-diffusion   |
| ducted fan engines  | axial flow turbines  | RT diffusion coefficient   |
| J-33 engine   | Brayton cycle  | gas density  |
| J-34 engine   | external combustion engines  | gas dynamics   |
| J-47 engine   | flameout   | gas flow   |
| J-52 engine   | steam turbines   | gas lubricants   |
| J-57 engine   | supersonic turbines  | gas recovery   |
| J-58 engine   | turbogenerators  | gas transport  |
| J-65 engine   | two stage turbines wave rotors   | gas viscosity  |
| J-69-T-25 engine  | wave lotors  | gas-gas interactions   |
| J-71 engine   |  | gas-ion interactions   |
| J-73 engine   | gas turbines   | gas-liquid interactions  |
| J-75 engine   | DEF Turbines rotated by expanding gases,   | gas-metal interactions   |
| J-79 engine   | as in a turbojet engine or in a turbosupercharger.   | mixing ratios  |
| J-85 engine   | GS turbomachinery  | molecular diffusion  |
| J-93 engine   | . turbines   | pollution transport  |
| RA-28 engine  | gas turbines   | thermal diffusion  |
| turbofan engines  | RT axial flow turbines   |  |
| Bristol-Siddeley BS 53 engine   | Brayton cycle  | gaseous fission reactors   |
| CF-700 engine   | closed cycles  | GS nuclear reactors  |
| convertible fan-shaft engines   | combined cycle power generation  | gaseous fission reactors   |
| J-97 engine   | internal combustion engines  | RT fissile fuels   |
| TF-30 engine  | spray ingestion  | fissionable materials  |
| TF-34 engine  | steam turbines   | ∞ gas reactors   |
|   |  |  |
| TF-41 engine  | supersonic turbines  | nuclear lightbulb engines  |
| TF-41 engine turboprop engines  |  | •  |
| TF-41 engine turboprop engines T-34 engine  | supersonic turbines  | nuclear lightbulb engines  |
| TF-41 engineturboprop enginesT-34 engineT-38 engine   | supersonic turbines turbogenerators  | nuclear lightbulb engines<br>nuclear propulsion  |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engine  | supersonic turbines<br>turbogenerators<br>two stage turbines   | nuclear lightbulb engines<br>nuclear propulsion  |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engine   | supersonic turbines<br>turbogenerators<br>two stage turbines<br>gas valves   | nuclear lightbulb engines<br>nuclear propulsion<br>plasma propulsion   |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-56 engine  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment  | nuclear lightbulb engines<br>nuclear propulsion<br>plasma propulsion<br>gaseous fuels  |
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| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-56 engine T-64 engine T-64 engine  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves  | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels   |
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| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-56 engineT-63 engineT-64 engineT-64 engineT-74 engineT-76 engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas liquefied natural gas gases . flammable gases   |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-55 engineT-55 engineT-56 engineT-64 engineT-64 engineT-74 engineT-78 engine  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas liquefied natural gas gases . flammable gases . gaseous fuels   |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-56 engineT-63 engineT-64 engineT-74 engineT-78 engineT-78 engineT-78 engineT-78 engineT-78 engineT-78 engineT-79 engineT-79 engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves automatic control valves cocks dampers (valves)   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas liquefied natural gas gases . flammable gases . gaseous fuels . natural gas   |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-56 engineT-64 engineT-44 engineT-74 engineT-78 engineT-78 engineT-78 engineT-78 engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment  | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas liquefied natural gas   |
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| TF-41 engineturboprop enginesT-34 engineT-38 engineT-55 engineT-55 engineT-63 engineT-64 engineT-64 engineT-74 engineT-76 engineT-78 engineturboramjet engines turbine enginesturbine engineshydrogen engines   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment  | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas liquefied natural gas   |
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| TF-41 engineturboprop enginesT-34 engineT-38 engineT-55 engineT-55 engineT-56 engineT-63 engineT-64 engineT-74 engineT-74 engineT-78 engineT-78 engineturboramjet engines turbine enginesgas turbine enginespiet enginespulsejet enginespulsejet enginespulsejet enginespulsejet enginespulsejet enginespulsejet enginespulsejet enginespulsejet engines  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties . viscosity . gas viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE  | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . liquefied natural gas gases . liquefied natural gas gases . gaseous fuels . natural gas liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants  |
| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-55 engine T-56 engine T-64 engine T-74 engine T-78 engine T-78 engine turboramjet engines turboramjet engines turboramjet engines pas turbine engines jet engine T-58 engine tropagnes turboramjet engines jet engines jet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines Spristol-Siddeley Olympus 593 engine  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties . viscosity . gas viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gaseous fuels . natural gas . liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants hybrid propellants  |
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| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-55 engine T-56 engine T-64 engine T-64 engine T-74 engine T-76 engine T-78 engine turboramjet engines turboramjet engines turboramjet engines turboramjet engines pas turbine engines pas engine T-58 engine ramjet engines integral rocket ramjets integral rocket ramjet engines pulsejet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties . viscosity . gas viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding . fusion welding   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas gases . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gases . gaseous fuels . notural gas . Ilquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . gaseous rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems   |
| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-55 engine T-56 engine T-64 engine T-74 engine T-76 engine T-78 engine turboramjet engines turboramjet engines turboramjet engines hydrogen engines jet engine T-58 engine ramjet engines jet engines low volume ramjet engines low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turboramjet engines supersonic combustion ramjet engines turborjet engines turborjet engines turborjet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties . viscosity . gas viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding . fusion welding . gas welding . gas welding   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . liquefied natural gas gases . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . gaseous rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems monopropellants  |
| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-55 engine T-56 engine T-64 engine T-74 engine T-74 engine T-78 engine T-78 engine turboramjet engines turboramjet engines hydrogen engines jet engine T-58 engine to wo volume ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turboramjet engines supersonic combustion ramjet engines turbojet engines turbojet engines Bristol-Siddeley Olympus 593 engine Bristol-Siddeley Viper engine ducted fan engines J-33 engine J-34 engine  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) welding fusion welding gas welding regas welding  | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas gases . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gases . gaseous fuels . notural gas . Ilquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . gaseous rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems   |
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| TF-41 engineturboprop enginesT-34 engineT-35 engineT-55 engineT-55 engineT-56 engineT-64 engineT-64 engineT-74 engineT-78 engineT-58 engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity gas viscosity T gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) Welding fusion welding gas welding ugas welding ugas welding ugas welding ugas metal interactions   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . Inquefied natural gas gases . Iliquefied natural gas gases . Iliquefied natural gas gases . Iliquefied natural gas . Iliquefied natural gas . Iliquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . gaseous rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems monopropellants storable propellants   |
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| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-55 engineT-64 engineT-74 engineT-74 engineT-78 engineT-58 engineT-59 engineT-59 engineT-59 engineT-59 engineT-59 engineT-59 engineT-59 engineT-59 engineT-59 engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties . viscosity . gas viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding . fusion welding . gas welding brazing low temperature brazing RT gas-metal interactions pressure welding  gasdynamic lasers   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . Inquefied natural gas gases . Ilquefied natural gas gases . Ilquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . gaseous rocket propellants . gaseous rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems monopropellants storable propellants  gaseous self-diffusion GS diffusion . gaseous diffusion ransport properties  |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-56 engineT-56 engineT-64 engineT-74 engineT-76 engineT-78 engineT-78 engineturboramjet engines turbine enginesturboramjet enginesturboramjet enginesturboramjet enginesturboramjet enginestose enginetanginetanginetanginetanginetanginetanginestanginestanginestanginestanginestanginesturboramjet enginesturboramjet enginesturboramjet enginesturboramjet enginesturboramjet enginesturboramjet enginesturborjet engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment . gas valves valves . gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties . viscosity gas viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding gas welding low temperature brazing RT gas-metal interactions pressure welding  gasdynamic lasers GS stimulated emission devices   | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gases . gaseous fuels . natural gas . liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems monopropellants storable propellants  gaseous self-diffusion . gaseous self-diffusion transport properties . gaseous diffusion transport properties . gaseous diffusion   |
| TF-41 engineturboprop enginesT-34 engineT-38 engineT-53 engineT-55 engineT-56 engineT-56 engineT-64 engineT-74 engineT-76 engineT-78 engineT-78 engineturboramjet enginesturboramjet enginesturboramjet enginesturboramjet enginesjet engineT-58 engineramjet enginesintegral rocket ramjetslow volume ramjet enginespulsejet enginesturboramjet enginesturboramjet enginesturboramjet enginesturbojet engines  | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) welding ifusion welding gas welding ifusion welding igas welding ifusion welding igas welding ifusion devices ifusion welding ifusion welding ifusion welding ifusion devices ifusi | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels gaseous fuels induction in liquefied natural gas gases flammable gases gases flammable gases gases flammable gases induction in liquefied natural gas gaseous fuels induction in liquefied natural gas gaseous rocket propellants GS propellants incoket propellants gaseous rocket propellants rocket propellants gaseous rocket propellants induction in liquefied in  |
| TF-41 engineturboprop enginesT-34 engineT-53 engineT-55 engineT-55 engineT-56 engineT-56 engineT-64 engineT-74 engineT-74 engineT-78 engineT-78 engineT-78 engineturboramjet enginesturboramjet enginesturboramjet enginestydrogen enginesjet engineT-58 engineT-58 engineT-58 enginetosupper enginesintegral rocket ramjetslow volume ramjet enginesintegral rocket ramjetslow volume ramjet enginesturboramjet enginesturboramjet enginesturboramjet enginesturbojet engineturbojet enginesturbojet enginesturbojet enginesturbojet enginesturbojet enginesturbojet enginesturbojet enginesturbojet engineturbojet engine   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) welding gas welding Jusion welding Jessendeling RT gas-metal interactions pressure welding  gasdynamic lasers GS stimulated emission devices Jessers Jessendeling  | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels gaseous fuels industrial gas industrial gas gases flammable gases flammable gases industrial gas gaseous fuels industrial gas industrial gas gaseous rocket propellants GS propellants industrial gas rocket propellants GS propellants industrial gas industrial gas gaseous rocket propellants industrial gas industrial gas gaseous rocket propellants industrial gas industrial gas gaseous rocket propellants industrial gas gaseous rocket propellants industrial gas |
| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-56 engine T-56 engine T-64 engine T-64 engine T-74 engine T-76 engine T-78 engine T-78 engine turboramjet engines turbine engines turboramjet engines hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engine turbojet engines turb | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding fusion welding gas welding Tusion welding User of a control cont | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gases . liquefied natural gas . liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants . gaseous rocket propellants . gaseous rocket propellants . rocket propellants . gaseous rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants man operated propulsion systems monopropellants storable propellants  gaseous self-diffusion . gaseous diffusion . gaseous diffusion . gaseous diffusion . gaseous self-diffusion RT electron diffusion gas dynamics   |
|   | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity Tgaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding giston welding gas welding Tusion welding substantial substant | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gases . liquefied natural gas . liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants GS propellants . rocket propellants . gaseous rocket propellants RT cryogenic rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants hydrogen fuels liquid rocket propellants man operated propulsion systems monopropellants storable propellants  gaseous self-diffusion GS diffusion . gaseous diffusion . gaseous diffusion . gaseous diffusion . gaseous self-diffusion RT electron diffusion gas dynamics kinetic theory   |
| TF-41 engine turboprop engines T-34 engine T-38 engine T-53 engine T-55 engine T-56 engine T-56 engine T-64 engine T-64 engine T-74 engine T-76 engine T-78 engine T-78 engine turboramjet engines turbine engines turboramjet engines hydrogen engines jet engines T-58 engine ramjet engines integral rocket ramjets low volume ramjet engines pulsejet engines supersonic combustion ramjet engines turboramjet engines turbojet engine turbojet engines turb | supersonic turbines turbogenerators two stage turbines  gas valves GS pneumatic equipment gas valves valves gas valves RT automatic control valves cocks dampers (valves) fuel valves relief valves  gas viscosity GS transport properties viscosity RT gaseous diffusion Lennard-Jones gas  gas welding SN (EXCLUDES ELECTRIC WELDING IN THE PRESENCE OF A CONTROLLED GASEOUS ATMOSPHERE) GS welding fusion welding gas welding Tusion welding User of a control cont | nuclear lightbulb engines nuclear propulsion plasma propulsion  gaseous fuels GS fuels . gaseous fuels . natural gas . liquefied natural gas gases . flammable gases . gaseous fuels . natural gas . liquefied natural gas gases . liquefied natural gas . liquefied natural gas RT lignite liquid fuels  gaseous rocket propellants . gaseous rocket propellants . gaseous rocket propellants . rocket propellants . gaseous rocket propellants endothermic fuels gas mixtures high energy propellants hybrid propellants hybrid propellants man operated propulsion systems monopropellants storable propellants  gaseous self-diffusion . gaseous diffusion . gaseous diffusion . gaseous diffusion . gaseous self-diffusion RT electron diffusion gas dynamics   |

plasma diffusion ... liquid neon . gas-metal interactions . . . neon isotopes ablation adsorption . . radon gases . . . radon isotopes chemical reactions GS gases chemisorption . . xenon . ammonia ... xenon isotopes . . liquid ammonia condensing .... xenon 129 . carbon dioxide .... xenon 133 corrosion . carbon monoxide . . . . xenon 135 diffusion . carbon suboxides . rarefied gases evaporation . cold gas . . cosmic gases exhaust emission . compressed gas interplanetary gas flame propagation . high pressure oxygen interstellar gas gas welding . dissolved gases gaseous diffusion . rarefied plasmas . exhaust gases . real gases hot corrosion hydrogen embrittlement ∞ interactions . flue gases . residual gas . flammable gases . solidified gases . . gaseous fuels . . solid cryogens metal combustion . . . natural gas . . . solid nitrogen metal vapors . liquefied natural gas metal-gas systems occlusion sulfur hexafluoride . . liquefied natural gas synthesis gas . . pyrogen . gas mixtures  $RT \, \infty \, atmospheres \,$ solid phases coal gasification sublimation . . air ∞ fluids sulfidation . . . alveolar air fumes vapor phases . . . compressed air gas dynamics . expired air gasohol (fuel) gas flow . . . high temperature air Synthetic fuel consisting of a mixture of gas recovery liquid air gasoline and grain alcohol (ethanol). hydrogen clouds . detonable gas mixtures GS metal-gas systems fuels gas streams . chemical fuels nonpoint sources . gray gas . . synthetic fuels odors . high temperature gases plasmas (physics) . gasohol (fuel) high temperature air pneumatics RT alcohols . hydrogen prevaporization gasoline . . hydrogen isotopes reaction products . . . deuterium gasoline vapor phases . hydrogen 4 GS fuels vapors . . . metallic hydrogen . chemical fuels gas-gas interactions . . hydrocarbon fuels . liquid hydrogen gas-gas interactions ... gasoline ideal gas association reactions . . liquid fuels . ionized gases Dalton law gasoline . Lorentz gas detonable gas mixtures products . liquefied gases exhaust emission . petroleum products liquefied natural gas gaseous diffusion gasoline liquid air antiknock additives ∞ interactions liquid ammonia automobile fuels liquid fluorine gasification diesel fuels liquid helium gasification gasohol (fuel) GS liquid helium 2 coal gasification jet engine fuels liquid hydrogen . . hydropyrolysis kerogen . . liquid neon synthane kerosene liquid nitrogen vaporizing octane number . . liquid oxygen shale oil . molecular gases gas-ion interactions solvent refined coal . polar gases ion-gas interactions . . polar gases . . . diatomic gases gaseous diffusion GASP USE **Global Air Sampling Program** ∞ interactions . monatomic gases . neutral gases Gaspra asteroid . nitrogen DEF Preformed deformable devices de-(added July 1995) . . liquid nitrogen signed to be placed between two adjoining parts celestial bodies . . nitrogen isotopes to prevent the passage of liquid or gas between . asteroids . . . nitrogen 15 . Gaspra asteroid the parts. . . . nitrogen 16 ĠS seals (stoppers) asteroid belts . . solid nitrogen gaskets Galileo spacecraft . noncondensable gases labyrinth seals meteoroids . nongray gas O ring seals . nonpolar gases pump seals gas-solid interactions . ortho hydrogen DEF Effects of the impingement of gases (particles) on solid surfaces in various environ-. oxygen gas-liquid interactions . . liquid oxygen gas-liquid interactions ments. . . oxygen isotopes . air water interactions fluid-solid interactions . oxygen 17 . gas-solid interactions . air sea ice interactions condensing energy transfer . . . oxygen 18 . gas-metal interactions . ozone air land interactions . para hydrogen dynamic loads evaporation . phosgene gaseous diffusion fluid dynamics . rare gases heat transfer impingement . . argon ∞ interactions ∞ interactions . . . argon isotopes interfacial tension panel method (fluid dynamics) . . helium mass transfer . . . helium isotopes momentum transfer gas-solid interfaces liquid helium noncondensable gases GS boundaries . . liquid helium 2 . fluid boundaries surface reactions . . krypton . gas-solid interfaces . . . krypton isotopes gas-metal interactions interfaces . fluid boundaries

fluid-solid interactions

. gas-solid interactions

. . krypton 85

. . neon

. . gas-solid interfaces

## gastrointestinal system

RT boundary layers supergravity . . . . GE 635 computer fluid-solid interactions supersymmetry **GE** computers heat transfer theories General Electric computers interface stability Yang-Mills fields GS metal surfaces Yang-Mills theory data processing equipment occlusion . computers solid phases . . digital computers Gauss equation solid-solid interfaces Gauss function . . . GE computers solubility GS analysis (mathematics) . . . . GE 625 computer sublimation . real variables . . . . GE 635 computer vapor phases . . differential equations ... partial differential equations gear (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) gastrointestinal system SN .... Gauss equation anatomy  $RT \, \infty \, equations$ . digestive system Maxwell equation arresting gear . . gastrointestinal system gears . . . appendix (anatomy) Gauss function landing gear ... intestines USE Gauss equation mechanical drives . . . . rectum . . stomach gear teeth Gaussian distributions RT abdomen RT bevel gears USE normal density functions colic gears gall mechanical drives Gaussian elimination glands (anatomy) DEF A technique for solving linear equations by progressive differencing. liver gearboxes organs (added October 1997) elimination pancreas transmissions (machine elements) linear equations ∞ systems matrices (mathematics) gears subtraction GATE (experiment) GS gears USE GARP Atlantic Tropical Experiment . bevel gears Gaussian noise . racks (gears) USE random noise gates . spiral bevel gears (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) counter-rotating wheels SN Gauss-Markov theorem ∞ gear theorems gear teeth GS closures Gauss-Markov theorem idlers gates (circuits) least squares method **lubrication** gates (openings) statistical analysis mechanical drives variance (statistics) transmissions (machine elements) gates (circuits) UF OR-gates wheels Gaussmeters windmills (windpowered machines) GS circuits USE magnetometers . gates (circuits) . field-programmable gate arrays gegenschein DEF A round or elongated spot of light in the gauze . threshold gates sky at a point 180 degrees from the sun. Also GS fabrics RT coincidence circuits called counterglow. gates gauze electromagnetic radiation . light (visible radiation) RT logic circuits casts logical elements . gegenschein extraterrestrial radiation switching circuits GAW-1 airfoil threshold logic General Aviation Whitcomb airfoil gegenschein trigger circuits airfoils RT night sky . wings polarized light gates (openings) . GAW-1 airfoil apertures sky brightness ATLIT project ∞ barriers PA-34 Seneca aircraft solar radiation canals wing profiles terrestrial dust belt doors zodiacal light fences (barriers) GAW-2 airfoil gehlenite ∞ gates General Aviation Whitcomb airfoil A mineral of the mellite group. It is hatches DEF GS airfoils hydraulic equipment isomorphous with akermenite. Used for verwings openings lardenite. . GAW-2 airfoil UF velardenite outlets body-wing configurations safety devices GS aluminum compounds flaps (control surfaces) vents . aluminum silicates general aviation aircraft walls . gehlenite wing profiles calcium compounds gauge invariance . calcium silicates GC-130 aircraft invariance . . gehlenite USE C-130 aircraft gauge invariance minerals electromagnetic radiation . gehlenite GCR (reactors) silicon compounds supergravity USE gas cooled reactors transformations (mathematics) . silicates . . aluminum silicates GDOP ... gehlenite USE geometric dilution of precision DEF A field theory in which symmetrics of . . calcium silicates the theory are implemented locally in space and . . gehlenite time. This leads to theories where forces are GE 625 computer RT aluminum oxides GS data processing equipment generally carried by vector bosons. Some gauge theories are electrodynamics, quantum chromo-. computers Geiger counters dynamics, and Yang Mills theory. . . digital computers DEF Instruments for detecting and measurfield theory (physics)
. gauge theory ... GE computers ing radioactivity. In full, Geiger-Mueller counter. . . . GE 625 computer Used for Geiger-Mueller tubes. . . quantum chromodynamics Geiger-Mueller tubes . . unified field theory GE 635 computer GS ionization chambers

GS data processing equipment

... GE computers

. computers

. Geiger counters

. counters

measuring instruments

. . radiation counters

RT

... electroweak model

gravitation theory

string theory

. standard model (particle physics)

| RT                    | Geiger counters . radiation measuring instruments . radiation counters Geiger counters dosimeters neutron counters overvoltage particle telescopes proportional counters radiation detectors  |
|-----------------------|---|
|                       | fueller tubes<br>Geiger counters  |
| (adde                 | gel filtration chromatography gel permeation chromatography chemical tests . chemical analysis chromatography gel chromatography chemical analysis  |
| (adde                 | liquid chromatography<br>ion chromatography<br>d November 2001)   |
| USE                   | gel chromatography  |
|                       | eation chromatography gel chromatography  |
|                       | collagens<br>food<br>gels<br>nonNewtonian fluids  |
| <b>gelation</b><br>RT | coagulation<br>colloiding<br>gels<br>solidification<br>thixotropy   |
|                       | d October 1997)<br>dissolved organic matter   |
| gelled p              | ropellants<br>propellants   |
| RT                    | . gelled propellants . gelled rocket propellants chemical fuels colloidal propellants high temperature propellants hydrogen fuels metal fuels metal propellants plastic propellants propellant additives solid propellants  |
| gelled ro<br>UF<br>GS | cocket propellants thixotropic propellants propellants . gelled propellants . gelled rocket propellants . rocket propellants  |
| RT                    | liquid rocket propellants gelled rocket propellants chemical fuels cryogenic rocket propellants gels high temperature propellants hybrid propellants hypergolic rocket propellants metal propellants monopropellants slurry propellants solid rocket propellants storable propellants |

gels

Liquids containing colloidal structural networks that form continuous matrices and completely pervade the liquid phase. Gels de-

form elastically upon application of shear forces less than the yield stress. At shear forces above the yield stress, the flow properties are principally determined by the gel matrices

GS gels

double base rocket propellants

silica gel . xerogels

aerogels colloids

dopes gelatins gelation

gelled rocket propellants

nonNewtonian fluids

slurries

thickeners (materials)

thixotropy

Gemini 2 spacecraft

GS manned spacecraft

. Gemini spacecraft

. . Gemini 2 spacecraft reentry vehicles
. recoverable spacecraft

. . Gemini spacecraft

Gemini 2 spacecraft

soft landing spacecraft . Gemini spacecraft

Gemini 2 spacecraft

manned space flight

Gemini 3 flight

space flight GS

. manned space flight

. . Gemini flights

RT Titan launch vehicles

Gemini 4 flight

GS space flight

. manned space flight

. . Gemini flights

Gemini 5 flight

GS space flight

. manned space flight

. . Gemini flights

... Gemini 5 flight

Gemini 6 flight

GS space flight

. manned space flight

. . Gemini flights

... Gemini 6 flight

Gemini 7 flight

GS space flight

. manned space flight . . Gemini flights

. Gemini 7 flight

Titan launch vehicles

Gemini 8 flight

space flight

. manned space flight

. . Gemini flights

. Gemini 8 flight

RT Titan launch vehicles

Gemini 9 flight

GS space flight

. manned space flight

. . Gemini flights

. . Gemini 9 flight

RT Titan launch vehicles

Gemini 10 flight

space flight GS

. manned space flight

. . Gemini flights

. Gemini 10 flight

Titan launch vehicles

Gemini 11 flight

GS space flight

. manned space flight

. . Gemini flights

... Gemini 11 flight

RT Titan launch vehicles

Gemini 12 flight

GS space flight

. manned space flight

. . Gemini flights . . Gemini 12 flight

Titan launch vehicles

Gemini (GT-1) spacecraft

GS manned spacecraft

. Gemini spacecraft
. Gemini (GT-1) spacecraft

reentry vehicles . recoverable spacecraft

. . Gemini spacecraft

. Gemini (GT-1) spacecraft

soft landing spacecraft

. Gemini spacecraft

. Gemini (GT-1) spacecraft

manned space flight

Gemini B spacecraft

GS manned spacecraft

. Gemini B spacecraft

reentry vehicles

. recoverable spacecraft

Gemini B spacecraft soft landing spacecraft

. Gemini B spacecraft

manned space flight

Gemini flights

GS space flight

. manned space flight

. . Gemini flights

. . . Gemini 3 flight

. . . Gemini 5 flight

Gemini 6 flight

Gemini 7 flight

Gemini 8 flight

Gemini 9 flight Gemini 10 flight

Gemini 11 flight

. . . Gemini 12 flight

Gemini project

GS programs

. NASA programs

. . NASA space programs

... Gemini project

. projects

... Gemini project

. space programs

. . NASA space programs

. Gemini project

Agena B rocket vehicle

Agena rocket vehicles

Atlas launch vehicles

integrated mission control center

Mercury project Titan project

Gemini spacecraft

GS manned spacecraft

. Gemini spacecraft

. . Gemini 2 spacecraft . . Gemini (GT-1) spacecraft

reentry vehicles . recoverable spacecraft

... Gemini spacecraft

Gemini 2 spacecraft

Gemini (GT-1) spacecraft

soft landing spacecraft

. Gemini spacecraft

Gemini 2 spacecraft

. . Gemini (GT-1) spacecraft manned space flight

space capsules Titan project

Geminid meteoroids

GS celestial bodies

. meteoroid showers

. . Geminid meteoroids

meteoroids

| Geminid meteoroids                                  | transport aircraft                                     | test pattern generators  |
|---|--|--|
| gene expression                                     | turboprop aircraft                                     | thermoelectric generators tide powered generators  |
| DEF The process by which a gene's coded             | utility aircraft                                       | turbogenerators  |
| information is converted into the structures        | General Aviation Whitcomb airfoil                      | vaporizers   |
| present and operating in the cell.                  | USE GAW-1 airfoil                                      | voltage generators   |
| UF gene regulation                                  | GAW-2 airfoil  | vortex generators  |
| RT biological diversity                             | Occupies and the other streets                         | wave generation  |
| biological evolution<br>chromosomes                 | General Dynamics aircraft GS General Dynamics aircraft | windpowered generators   |
| cloning (biology)                                   | . B-58 aircraft  | genes  |
| deoxyribonucleic acid                               | . C-131 aircraft                                       | GS genes   |
| evolution (development)                             | . CL-41 aircraft                                       | . oncogenes  |
| gene expression regulation                          | . CL-44 aircraft                                       | . tumor suppressor genes   |
| gene therapy  | . CL-84 aircraft                                       | RT chromosome aberrations  |
| genes   | . CV-340 aircraft                                      | chromosomes  |
| genetically modified plants<br>genetics             | . CV-440 aircraft<br>. CV-880 aircraft                 | cloning (biology)<br>deoxyribonucleic acid   |
| molecular biology                                   | . CV-990 aircraft                                      | gene expression  |
| mutagenesis   | . F-102 aircraft                                       | gene expression regulation   |
| oncogenes   | . F-106 aircraft                                       | genetic code   |
| phenotype   | . F-111 aircraft                                       | genetic engineering  |
| ribonucleic acids                                   | RT ∞ aircraft  | genetics   |
| transcription (genetics)                            | Canadair aircraft                                      | genome   |
| gene expression regulation                          | PA-34 Seneca aircraft                                  | molecular biology  |
| (added August 2004)                                 | General Electric computers                             | mutagenesis<br>mutations   |
| DEF Any of the processes by which nuclear,          | USE <b>GE computers</b>                                | phenotype  |
| cytoplasmic, or intercellular factors influence the |  | ribonucleic acids  |
| differential control of gene action at the level of | general overviews                                      | telomeres  |
| transcription or translation. These processes       | (added February 1993)                                  |  |
| include gene activation and genetic induction.      | RT bibliographies                                      | Genesis mission  |
| RT gene expression                                  | recommendations  | (added February 1999)  |
| gene therapy<br>genes                               | surveys<br>technology utilization                      | DEF A space mission to collect solar wine<br>samples from a halo orbit about the sun-Eartl |
| transcription (genetics)                            | technology utilization                                 | L1 point for two years, returning those sample   |
| (g)   | General Purpose Heat Sources                           | to Earth in 2003 for analysis and examination  |
| gene regulation                                     | (added December 2002)                                  | Analysis of the samples collected by the mission   |
| USE gene expression                                 | USE radioisotope heat sources                          | will contribute to an understanding of the origin  |
| gone thereny  |  | of the solar system.   |
| gene therapy<br>(added February 2002)               | generalization (psychology)  RT transfer of training   | GS space missions . <b>Genesis mission</b>   |
| DEF The introduction of new genes into              | Ter transfer of training                               | RT solar system evolution  |
| cells for the purpose of treating disease by        |  | solar wind   |
| restoring or adding gene expression.                | SN (USE OF A MORE SPECIFIC TERM IS                     |  |
| GS therapy . gene therapy                           | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)          | genetic algorithms   |
| RT chromosomes                                      | RT cogeneration  | (added December 1992) DEF Parameter search procedures loosel                               |
| deoxyribonucleic acid                               | heat generation  | based on the mechanics of natural population   |
| gene expression                                     | initiation   | genetics and the survival-of-the-fittest.  |
| gene expression regulation                          | regeneration (engineering)                             | GS mathematical logic  |
| genetic engineering                                 | ∞ generators   | . algorithms   |
| plasmids  | SN (USE OF A MORE SPECIFIC TERM IS                     | genetic algorithms   |
| general aviation aircraft                           | RECOMMENDEDCONSULT THE TERMS                           | optimization   |
| UF executive aircraft                               | LISTED BELOW) RT AC generators                         | . <b>genetic algorithms</b><br>RT artificial intelligence                                  |
| private aircraft                                    | arc generators   | control systems design   |
| GS general aviation aircraft                        | boilers  | design optimization  |
| . agricultural aircraft                             | cavity vapor generators                                | evolvable hardware   |
| . Beechcraft 18 aircraft                            | colloidal generators                                   | machine learning   |
| . C-33 aircraft<br>. C-35 aircraft                  | DC generators decommutators                            | multidisciplinary design optimization  |
| . Cessna 172 aircraft                               | direct power generators                                | neural nets  |
| . Cessna 205 aircraft                               | duochromators  | optimal control parameter identification   |
| . Cessna 210 aircraft                               | electric generators                                    | trajectory optimization  |
| . Cessna 402B aircraft                              | electrostatic generators                               | ,  |
| . CL-600 challenger aircraft                        | energy conversion efficiency                           | genetic code   |
| . DH 125 aircraft                                   | function generators                                    | DEF The sequence of nucleotides, coded in  |
| . DHC 2 aircraft<br>. DO-27 aircraft                | gas generators   | triplets along the messenger RNA that deter  |
| . DO-27 aircraft                                    | Hall generators<br>harmonic generators                 | mines the sequence of amino acids in protein   |
| . G-1 aircraft                                      | homopolar generators                                   | synthesis.<br>RT chromosomes   |
| . HC-3 helicopter                                   | impulse generators                                     | cloning (biology)  |
| . Yak 40 aircraft                                   | linear alternators                                     | genes  |
| RT ∞ aeronautics                                    | magnetohydrodynamic generators                         | genetics   |
| air transportation                                  | motors   | genome   |
| ∞ aircraft  | noise generators                                       | constinuity of the same  |
| civil aviation<br>commercial aircraft               | photoelectric generators plasma generators             | genetic diversity USE biological diversity   |
| commuter aircraft                                   | pulse generators                                       | OOL biological diversity   |
| GAW-2 airfoil                                       | radiation sources                                      | genetic engineering  |
| helicopters   | report generators                                      | DEF The intentional production of new  |
| jet aircraft  | rotating generators                                    | genes and alteration of genomes by the substi  |
| light aircraft                                      | shock wave generators                                  | tution or addition of new genetic material. Use  |
| ∞ low wing aircraft                                 | signal generators                                      | for hybrids (biology).   |
| passenger aircraft<br>Piper aircraft                | solar sea power plants<br>sound generators             | UF <i>hybrids (biology)</i><br>RT biochemistry   |
| single engine aircraft                              | stators  | bioengineering   |
| ∞ subsonic aircraft                                 | stimulated emission devices                            | ∞ biology  |
| training aircraft                                   | subharmonic generators                                 | biosynthesis   |
| -   | <u>-</u>   | •  |

| cione cells                                   | ridonucieic acids                                  | Tertiary Period                                  |
|---|--|--|
| cloning (biology)                             |  |  |
| gene therapy                                  | GEO environments                                   | geocoronal emissions                             |
| genes   | USE Earth orbital environments                     | GS atmospheric radiation                         |
| genetically modified plants                   |  | . sky radiation                                  |
| genetics                                      | geoastrophysics                                    | airglow  |
| genome  |  | geocoronal emissions                             |
| phenotype                                     | USE astrophysics                                   | electromagnetic radiation                        |
| plasmids                                      |  | . light (visible radiation)                      |
| polymerase chain reaction                     | geobotany  | sky radiation                                    |
| 1.,   | GS botany  | airglow  |
|   | . geobotany  | geocoronal emissions                             |
| genetically modified plants                   | RT biogeochemistry                                 | <b>3</b>   |
| (added August 2004)                           | geographic distribution                            | geocyclotrons                                    |
| DEF Plants, or their progeny, whose ge-       | plants (botany)                                    | GS particle accelerators                         |
| nome has been altered by genetic engineering. | rain forests                                       | . cyclotrons                                     |
| GS plants (botany)                            | trees (plants)                                     |  |
| genetically modified plants                   | tiood (pianto)                                     | geocyclotrons                                    |
| RT agriculture                                |  | RT ∞ accelerators                                |
| botany  | geocentric coordinates                             | elementary particles                             |
| crop vigor                                    | GS coordinates                                     | gaadasia linaa                                   |
| gene expression                               | . planetocentric coordinates                       | geodesic lines                                   |
|   | geocentric coordinates                             | GS geometry                                      |
| genetic engineering                           | RT astronomical coordinates                        | . Euclidean geometry                             |
| genome  | celestial reference systems                        | lines (geometry)                                 |
| phenotype                                     | inertial coordinates                               | geodesic lines                                   |
|   | planet ephemerides                                 | RT chords (geometry)                             |
| ganatics                                      | spherical coordinates                              | curves (geometry)                                |
| genetics                                      | •  |  |
| RT biological diversity                       |  | geodesy  |
| biological evolution                          | geochemistry                                       | DEF The science which deals mathemati            |
| ∞ biology                                     | DEF The study of the distribution of the           | cally with the size and shape of the Earth, and  |
| breeding (reproduction)                       | amounts of the chemical elements in minerals,      | the Earth's external gravity field, and with sur |
| chromosomes                                   | ores, rocks, soils, water, and the atmosphere.     | veys of such precision that overall size and     |
| cloning (biology)                             | Also, the study of the circulation of the elements | shape of the Earth must be taken into consider   |
| congenital anomalies                          | in nature, on the basis of the properties of the   | ation. Used for Earth figure, Earth shape, and   |
| cytogenesis                                   | atom and ions. A major concern of geochemistry     | Iszak ellipsoid.                                 |
| dominance                                     | is the synoptic evaluation of the abundance of     | UF Earth figure                                  |
| evolution (development)                       | the elements of the Earth's crust and in major     | 3  |
| gene expression                               | classes of rocks and minerals.                     | Earth shape                                      |
| genes   | GS environmental chemistry                         | Izsak ellipsoid                                  |
| genetic code                                  | . geochemistry                                     | GS geodesy                                       |
| genetic edge<br>genetic engineering           | biogeochemistry                                    | . celestial geodesy                              |
| mutagens                                      | RT abundance                                       | RT altimetry                                     |
| mutations                                     | ∞ chemistry  | Earth (planet)                                   |
|   | cosmochemistry                                     | Earth axis                                       |
| neurospora                                    | Earth sciences                                     | geodetic accuracy                                |
| nuclei (cytology)                             |  | geodetic surveys                                 |
| nucleogenesis                                 | geochronology                                      | geoids   |
| species diffusion                             | geology  | geology  |
| transcription (genetics)                      | geophysics   | geophysics                                       |
|   | hydrology  | gravimeters                                      |
| Contract of all the                           | isotope ratios                                     | lunar retroreflectors                            |
| Genie rocket vehicle                          | limnology  | oblate spheroids                                 |
| UF MB-1 rocket vehicle                        | marine chemistry                                   | OGO-4  |
| GS rocket vehicles                            | mineralogy   | OGO-5  |
| . single stage rocket vehicles                | paleobiology                                       | perturbation                                     |
| Genie rocket vehicle                          | paleontology                                       |  |
| RT Astrobee rocket vehicles                   | petrology  | photomapping                                     |
| solid propellant rocket engines               | radioactivity                                      | polar wandering (geology)                        |
|   | siderophile elements                               | satellite altimetry                              |
|   | submarine hydrothermal vents                       | satellite doppler positioning                    |
| genitourinary system                          | odomarino ny drothornar vonto                      | topography                                       |
| GS anatomy                                    |  | vinti theory                                     |
| . genitourinary system                        | geochronology                                      |  |
| bladder                                       | DEF The study of time in relationship to the       | geodetic accuracy                                |
| kidneys                                       | history of the Earth, especially by the absolute   | DEF The degree to which point positions of       |
| glomerulus                                    | age determination and relative dating systems      | boundaries indicated on maps or imagery corre    |
| reproductive systems                          | developed for this purpose.                        | spond with true geodetic positions.              |
| sex glands                                    | GS chronology                                      | GS accuracy                                      |
| gonads  | . geochronology                                    | . geodetic accuracy                              |
| ovaries                                       | geology  | RT Earth surface                                 |
| testes  | . geochronology                                    | geodesy  |
| prostate gland                                | RT Cambrian Period                                 | geoids   |
| uterus  | Cenozoic Era                                       | geopotential height                              |
|   | Cretaceous Period                                  | satellite doppler positioning                    |
| 0, 0,   | Cretaceous-Tertiary boundary                       | odtomto doppioi poottormig                       |
| kidney stones                                 | dendrochronology                                   | geodetic coordinates                             |
| organs  | geochemistry                                       | DEF Quantities that define the position of       |
| ∞ systems                                     | geophysics   | point on the spheroid of reference with respec   |
| urology                                       | Holocene epoch                                     | to the planes of the geodetic equator and of     |
|   |  | reference meridian.                              |
| ganoma  | isotope ratios                                     | GS coordinates                                   |
| genome  | magnetostratigraphy                                |  |
| (added September 2001)                        | Mesozoic Era                                       | . geodetic coordinates                           |
| DEF An organism's genetic complement as       | paleobiology                                       | RT International Satellite Geodesy               |
| represented in its DNA or, in some cases, its | paleontology                                       | Experiment                                       |
| RNA.  | Paleozoic Era                                      | latitude   |
| RT deoxyribonucleic acid                      | particle tracks                                    | longitude  |
| genes   | petrogenesis                                       | ∞ nets   |
| genetic code                                  | Pleistocene epoch                                  | satellite doppler positioning                    |
| genetic engineering                           | Quaternary period                                  |  |
| genetically modified plants                   | radioactive age determination                      | geodetic satellites                              |
| proteome                                      | stratigraphy                                       | GS artificial satellites                         |
| •   | - · · ·  |  |

. geodetic satellites geopotential ANNA satellites geofabrics Explorer 29 satellite Explorer 36 satellite USE geotechnical fabrics . . GEOLE satellites GEOS 1 satellite geofractures GEOS 2 satellite USE geological faults GEOS 3 satellite geographic applications program Geosat satellites . . LARGOS satellite programs PAGEOS satellite space programs . . geographic applications Vanguard 1 satellite active satellites program Earth resources celestial geodesy navigation satellites Earth Resources Program NAVSTAR satellites geography passive satellites mapping satellite altimetry NASA programs remote sensors satellite doppler positioning satellite laser ranging satellite-borne photography soil mapping Vanguard satellites terrain analysis geographic distribution aeodetic survevs (added June 1995) DEF Surveys which takes into account the GS distribution (property) size and shape of the Earth. surveys spatial distribution . geodetic surveys geographic distribution geodesy RT ∞ distribution geological surveys economic development Phoenix quadrangle (AZ) satellite doppler positioning geobotany geomorphology populations topography remote sensing species diffusion geodimeters vegetative index DEF Trade name of electronic-optical devices that measure ground distances precisely geographic information systems DEF Computer assisted systems that acby electronic timing and phase comparison of modulated light waves that travel from a master unit to a reflector and return to a light-sensitive quire, store, manipulate, and display geographic data. Some systems are not automated. information systems tube where an electric current is set up. They are . geographic information systems normally used at night and are effective with aerial photography first-order accuracy up to distances of 5-40 km data systems (3-25 miles). The term is derived from GEOdetic geography DIstance METER. imagery GS measuring instruments infrared photography . distance measuring equipment . geodimeters remote sensing . optical measuring instruments geodimeters The study of all aspects of the Earth's optical equipment surface including its natural and political divi-. optical measuring instruments sions, the distribution and differentiation of areas geodimeters and, often, man in relationship to his environoptical measurement ment range finders GS geography tellurometers . hypsography orography Geodynamic Experimental Ocean Satellite Arctic regions cadastral mapping USE GEOS-D satellite climatology continents geodynamics Earth (planet) DEF Study of the dynamic forces or pro-Eastern Hemisphere cesses within the Earth. Used for crustal dynameconomic development estuaries UF crustal dynamics geographic applications program RT Chandler wobble geographic information systems crustal fractures geomorphology ∞ dynamics Heat Capacity Mapping Mission mapping Earth movements Earth sciences maps oceanography geomorphology oceans geophysics planetary quakes plains shock waves polar regions terradynamics selenography temperate regions tropical regions tundra geoelectricity DEF The Earth's natural electric fields and Western hemisphere phenomena. It is closely related to geomagnetism. geoids

The figure of the Earth as defined by

the geopotential surface which most nearly co-

incides with mean sea level over the entire

surface of the Earth.

altimetry

geodesv

RT

satellite altimetry shapes spheroids symmetrical bodies **GEOLE** satellites GS artificial satellites . French satellites ... GEOLE satellites . geodetic satellites ... GEOLE satellites . meteorological satellites . GEOLE satellites **EOLE** satellites French space program geological faults A surface or zone of rock fracture along which there has been displacement, from a few centimeters to a few kilometers in scale. Used for closed faults, cross faults, echelon faults, geofractures, grabens, rifts, splits (geology), step faults, and thrust faults. closed faults cross faults echelon faults geofractures grabens splits (geology) step faults thrust faults geological faults African rift system San Andreas Fault crevasses crustal fractures earthquake damage earthquakes ∞ faults fissures (geology) folds (geology) formations inliers (landforms) landforms massifs mid-ocean ridges plates (tectonics) Rouse belts San Andreas Fault experiment synclines geological surveys GS surveys geological surveys exploration geodetic surveys geology geophysics paleontology petrology photogeology radar geology DEF The study of the planet Earth--the materials of which it is made, the processes that act on these materials, the products formed, and the history of the planet and its life forms since its origin. Geology considers the physical forces that act on the Earth, the chemistry of its constituent materials, and the biology of its past inhabitants as revealed by fossils. Clues on the origin of the planet are sought in a study of the Moon and other extraterrestrial bodies. The knowledge thus obtained is placed in the service of man--to aid in the discovery of minerals and fuels of value in the Earth's crust, to identify geologically stable sites for major structures, and to provide foreknowledge of some of the dangers associated with the mobile forces in a dynamic Earth. geology beds (geology) GS . . salt beds . cones (volcanoes)

geodetic accuracy

oblate spheroids

geometry

geophysics

GS

electricity geoelectricity

. telluric currents

Earth (planet) field aligned currents

geophysics

|                | . crossbedding (geology)                        |
|----------------|---|
|                | . domes (geology)                               |
|                | . gaps (geology)                                |
|                | . geochronology<br>. geomorphology              |
|                | . glaciology                                    |
|                | . hydrogeology                                  |
|                | . kettles (geology)                             |
|                | . lunar geology                                 |
|                | . orography                                     |
|                | . petrology                                     |
|                | lithology                                       |
|                | petrogenesis petrography                        |
|                | . photogeology                                  |
|                | . planetary geology                             |
|                | Mars volcanoes                                  |
|                | . radar geology                                 |
|                | . structural properties (geology)               |
|                | . subduction (geology) . tectonics              |
|                | . neotectonics                                  |
|                | . volcanoes                                     |
|                | Mars volcanoes                                  |
|                | . volcanology                                   |
| RT             | bedrock   |
|                | boreholes                                       |
|                | bridges (landforms)                             |
|                | Canadian Shield continental shelves             |
|                | Earth (planet)                                  |
|                | Earth planetary structure                       |
|                | Earth sciences                                  |
|                | exploitation                                    |
|                | exploration                                     |
|                | fiords  |
|                | formations<br>geochemistry                      |
|                | geodesy   |
|                | geological surveys                              |
|                | geophysical observatories                       |
|                | geophysics                                      |
|                | geopressure                                     |
|                | geotemperature                                  |
|                | gravimetry                                      |
|                | Great Basin (US) inliers (landforms)            |
|                | isthmuses                                       |
|                | kreep   |
|                | massifs   |
|                | meteorology                                     |
|                | mineral deposits                                |
|                | mineralogy                                      |
|                | minerals<br>morphology                          |
|                | ocean bottom                                    |
|                | oceanography                                    |
|                | oil exploration                                 |
|                | outcrops  |
|                | paleomagnetism                                  |
|                | paleontology                                    |
|                | photomapping physical sciences                  |
| ∞              | Precambrian period                              |
|                | regolith  |
|                | rock mechanics                                  |
|                | rocks   |
| ∞              | science   |
|                | seismology                                      |
|                | shatter cones<br>soils                          |
|                | stratigraphy                                    |
|                | structural basins                               |
| ~~~~~          |   |
| geomagi<br>USE | netic anomalies<br>magnetic anomalies           |
|                | <u> </u>  |
| geomagi<br>USE | netic crotchets sudden ionospheric disturbances |
|                | ·   |
|                | netic effects                                   |
|                | magnetic effects                                |
|                | netic equator                                   |
| USE            | magnetic equator                                |
|                | netic field                                     |
| USE            | geomagnetism                                    |

geomagnetic hollow

anomalies

GS

contacts (geology)

```
geomagnetic latitude
 DEF Angular distances from the geomag-
netic equator, measured northward or south-
ward through 90 degrees and labeled N or S to
indicate the direction of measurement.
geomagnetic micropulsations
  GS pulses
geomagnetic pulsations
  GS pulses
geomagnetic storms
 USE magnetic storms
geomagnetic tail
   SN
  GS
   RT
geomagnetically trapped particles
 USE radiation belts
geomagnetism
 DEF The magnetic phenomena, collectively
considered, exhibited by the Earth and its atmo-
sphere and by extension the magnetic phenom-
ena in interplanetary space. The study of the
magnetic field of the Earth. Used for geomag-
netic field and terrestrial magnetism.
  GS
```

. magnetic anomalies

Earth magnetosphere

. geomagnetic latitude

. geomagnetic pulsations

. . geomagnetic pulsations

geomagnetic pulsations

. . geomagnetic pulsations

magnetospheric instability nocturnal variations

(RESTRICTED TO THE EARTH MAGNETOTAIL) Earth magnetotail

. Earth magnetosphere

planetary magnetic fields

planetary magnetotails

geomagnetic field

magnetic fields

. geomagnetism

geomagnetism

barium ion clouds

Birkeland currents

Earth magnetosphere

field aligned currents

field theory (physics)

aeromagnetism

continental drift

dynamo theory

Earth (planet) Earth gravitation

Earth sciences

electrojets

magnetic properties

terrestrial magnetism

. . geomagnetic tail field aligned currents

. geomagnetic micropulsations

. . . geomagnetic micropulsations

nocturnal variations telluric currents

. . geomagnetic micropulsations

. geomagnetic micropulsations

. geomagnetic micropulsations

plasma clouds

latitude

coordinates

polar cusps

geomagnetism

. micropulsations

variations . magnetic variations

variations . magnetic variations

KP index

geomagnetism

environments

geomagnetism

magnetic fields magnetic islands

∞ magnetotails

polar cusps

. geomagnetic hollow

magnetohydrodynamic flow

```
flux transfer events
        geomagnetic latitude
        geomagnetic pulsations
        geomagnetic tail
        geophysics
        inclination
        International Magnetospheric Study
        KP index
        M region
        magnetic anomalies
        magnetic disturbances
        magnetic effects
        magnetic equator
        magnetic poles
        magnetic surveys
        magnetoionics
        magnetometers
        magnetosheath
        MagSat 1 satellite
        Magsat A satellite
        MagSat B satellite
        MagSat satellites
        paleomagnetism
        planetary magnetic fields
        polar cusps
        Polar/GGS spacecraft
        space plasmas
        space weather
        variometers
geometric accuracy
 DEF The internal geometric fidelity of an
imaging system.
  GS
       accuracy
         geometric accuracy
        distortion
        geometric rectification (imagery)
        image processing
        image resolution
geometric dilution of precision
 DEF A navigation and positioning system
performance index expressing the dilution of
range measurement precision due to the geo-
metric relationship between user and satellites.
It is formulated as the square root of the sum of
the variances of position estimates in the three
orthogonal directions and can be employed to
determine the optimal locations for network sat-
ellites and in the selection of optimal satellite
signals sources. Used for GDOP
  UF
        GDOP
  GS
        . geometric dilution of precision
        precision
geometric rectification (imagery)
 DEF The correction of image distortions due
to sensor view angle, platform attitude, or target
surface features.
        image processing
        geometric rectification (imagery)
        rectification
         geometric rectification (imagery)
  RT atmospheric correction
        geometric accuracy
        image enhancement
        imagery
geometrical acoustics
 DEF The study of the behavior of sound
under the assumption that sound transversing a
homogeneous medium travels along straight
lines or rays. Used for ray acoustics.
  UF
        ray acoustics
  GS
        acoustics
        . geometrical acoustics
        geometrical theory of diffraction
        geometry
        wave propagation
```

geometrical hydromagnetics USE magnetohydrodynamics

#### geometrical optics

DEF The geometry of paths of light rays and their imagery through optical systems. Used for ray optics.

UF rav optics RT acousto-optics

| asphericity                              | look angles (tracking)                 | Venn diagrams  |
|--|--|--|
| astigmatism                              | sweep angle                            | volume   |
| Cassegrain optics                        | sweep drigit                           | Voronoi diagrams   |
| crystal optics                           | •                                      | voronor diagrams   |
| ·  | leading edge sweep                     | geomorphology  |
| diffraction propagation                  | Cartesian coordinates                  | DEF A science that deals with the land an  |
| eikonal equation                         | circles (geometry)                     |  |
| fiber optics                             | great circles                          | submarine relief features of the Earth's surface   |
| focusing                                 | descriptive geometry                   | and genetic interpretation of them through using   |
| geometrical theory of diffraction        | lines (geometry)                       | the principles of physiography in its descriptive  |
| gradient index optics                    | ·= · · · · · · · · · · · · · · · · · · | aspects and of dynamic and structural geolog   |
| holographic optical elements             | chords (geometry)                      | in its explanatory phases. Used for physiogra  |
| light (visible radiation)                | geodesic lines                         | phy.   |
| light transmission                       | points (mathematics)                   | UF physiography  |
| nonlinear optics                         | fixed points (mathematics)             | GS geology   |
| numerical aperture                       | inflection points                      | . geomorphology  |
| optical equipment                        | polygons                               | morphology   |
| optical measurement                      | hexagons                               | geomorphology  |
|  | tetragons                              | RT cones (volcanoes)   |
| optical paths                            | parallelograms                         | ,  |
| optical properties                       | rhomboids                              | contours   |
| optical reflection                       | rectangles                             | geodynamics  |
| ∞ optics                                 | squares (mathematics)                  | geographic distribution  |
| physical optics                          |  | geography  |
| ray tracing                              | trapezoids                             | glaciology   |
| Snells law                               | triangles                              | isostasy   |
| underwater optics                        | polyhedrons                            | lunar geology  |
| x ray optics                             | cubes (mathematics)                    | mountains  |
| , ,                                      | icosahedrons                           | orography  |
| geometrical theory of diffraction        | octahedrons                            | photogeology   |
| DEF A ray theory of diffraction process. | parallelepipeds                        | shatter cones  |
| RT diffraction                           | pyramids                               | slumping   |
| diffraction patterns                     | rhombohedrons                          | terrain  |
|  | tetrahedrons                           |  |
| geometrical acoustics                    | projective geometry                    | topography   |
| geometrical optics                       | Mercator projection                    | volcanoes  |
| ray tracing                              | radii                                  | volcanology  |
| reflectance                              |  |  |
| ∞ theories                               | Larmor radius                          | Geon (trademark)   |
| wave diffraction                         | . flow geometry                        | USE polyvinyl chloride   |
|  | . fractals                             |  |
| geometrodynamics                         | . nozzle geometry                      | geophysical fluid flow cells   |
| USE relativity                           | . specimen geometry                    | DEF Apparatus used in model experiment   |
|  | . tank geometry                        | for deep solar convection and Jovian atmo  |
| geometry                                 | . topology                             | spheric circulation for Spacelab 1 and Spacelal  |
| GS geometry                              | fixed points (mathematics)             | 3.   |
| . Bose geometry                          | homotopy theory                        | GS payloads  |
| . computational geometry                 | imbeddings (mathematics)               | . Spacelab payloads  |
| . crack geometry                         | invariant imbeddings                   | geophysical fluid flow cells   |
| . curvature                              | links (mathematics)                    |  |
|  | metric space                           | RT aerospace environments  |
| . curves (geometry)                      |  | ∞ cells  |
| catenaries                               | Hilbert space                          | convective flow  |
| cycloids                                 | Sobolev space                          | fluid flow   |
| epicycloids                              | . vector analysis                      | gas flow   |
| S curves                                 | collinearity                           | investigation  |
| Gompertz curves                          | coplanarity                            | Jupiter atmosphere   |
| . cusps (mathematics)                    | curl (vectors)                         | Space Transportation System flights  |
| double cusps                             | vorticity                              | spaceborne experiments   |
| . differential geometry                  | RT analysis (mathematics)              | Spacelab   |
| lie groups                               | area                                   | ∞ test equipment   |
| spinor groups                            | bodies of revolution                   | toot oquipmont   |
| Riemann manifold                         | complex numbers                        | geophysical fluids   |
| tensor analysis                          | congruences                            | DEF General term for the liquids and gase  |
| . duct geometry                          | coordinates                            | on or in the Earth (from water in all forms, to  |
|  |  |  |
| . Euclidean geometry                     | ∞ cross sections                       | petroleum and hydrocarbons in liquid and gas   |
| . analytic geometry                      | crystal lattices                       | eous form, and molten rock material within the   |
| catenaries                               | diagrams                               | Earth).  |
| circumferences                           | diameters                              | GS geophysical fluids  |
| conics                                   | dimensions                             | . crude oil  |
| ellipses                                 | distance                               | . ground water   |
| hyperbolas                               | foci                                   | . lava   |
| parabolas                                | frustums                               | . magma  |
| cycloids                                 | geoids                                 | . natural gas  |
| epicycloids                              | geometrical acoustics                  | . liquefied natural gas  |
| loci                                     | hypergeometric functions               | RT Earth core  |
| Mercator projection                      | hyperspheres                           | fluid dynamics   |
| quadrants                                | infinity                               |  |
| S curves                                 |  | geothermal resources   |
|  | ∞ mathematics                          | geothermal technology  |
| Gompertz curves                          | ∞ measurement                          | and the standard and th |
| spheroids                                | planforms                              | geophysical observatories  |
| oblate spheroids                         | Poincare spheres                       | GS observatories   |
| prolate spheroids                        | position (location)                    | . geophysical observatories  |
| tangents                                 | ∞ profiles                             | OGO  |
| toruses                                  | reciprocal theorems                    | EGO  |
| trigonometry                             | ∞ science                              | OGO-3  |
| angles (geometry)                        | shapes                                 | OGO-5  |
| angle of attack                          | sides                                  | OGO-3  |
|  |  | POGO   |
| zero angle of attack                     | spheres                                |  |
| Bragg angle                              | ∞ surface geometry                     | OGO-4  |
| Brewster angle                           | surveys                                | OGO-6  |
| dihedral angle                           | symmetry                               | OGO-C  |
| elevation angle                          | toroids                                | OSO  |
| look angles (electronics)                | uniqueness theorem                     | AOSO   |
|  |  |  |

... OSO-1 other sciences concerned with the physical na-. scientific satellites OSO-2 ture of the universe. . Geopotential Research Mission OSO-3 aeronomy gravitation . OSO-4 astrophysics gravitational fields ... OSO-5 Chandler wobble . OSO-6 continental drift ... OSO-7 Earth (planet) DEF Pressures that exceed the normal hy-... OSO-8 Earth planetary structure drostatic pressure of about 0. 465 psi per foot of .. OSO-C Earth sciences depth. field aligned currents GS astronomical observatories pressure formations . geopressure geology geochemistry geology geophysics geochronology geothermal resources geothermal technology geodesy pressure gradients geophysical satellites geodynamics GS artificial satellites geoelectricity . geophysical satellites geoids Georgia . . Cosmos satellites nations geological surveys ... Cosmos 2 satellite geology geomagnetism geophysical observatories . United States Cosmos 3 satellite Georgia ... Cosmos 5 satellite Atlanta (GA) Cosmos 6 satellite Sand Hills Region (GA-NC-SC) aravimeters Cosmos 14 satellite gravimetry Cosmos 44 satellite Georgia (Eurasia) heat transmission . . . Cosmos 54 satellite (added August 1993) hydrography Cosmos 71 satellite nations hydrology ... Cosmos 110 satellite Georgia (Eurasia) International Geophysical Year Cosmos 137 satellite Asia International Geosphere-Biosphere ... Cosmos 144 satellite Europe program Cosmos 149 satellite isostasy . . Cosmos 166 satellite **GEOS 1 satellite** limnology artificial satellites Cosmos 186 satellite meteorology . . . Cosmos 188 satellite geodetic satellites Mission to Planet Earth . GEOS 1 satellite Cosmos 206 satellite oceanography . Cosmos 213 satellite active satellites paleomagnetism Cosmos 224 satellite ANNA satellites petrology Cosmos 225 satellite celestial geodesy physics Cosmos 381 satellite Explorer 29 satellite plates (tectonics) LARGOS satellite . . Cosmos 954 satellite polar cusps Cosmos 1129 satellite PAGEOS satellite · radiation . Intercosmos satellites radioactivity Explorer 6 satellite **GEOS 2 satellite** ∞ science GEOS-B satellite Explorer 10 satellite seismology Explorer 12 satellite artificial satellites stratigraphy . geodetic satellites Explorer 45 satellite structural properties (geology) GEOS 2 satellite OGO tectonics active satellites . EGO theoretical physics ANNA satellites OGO-3 tiltmeters celestial geodesy . OGO-5 topography Explorer 36 satellite OGO-A LARGOS satellite . POGO geopotential PAGEOS satellite .. OGO-4 The potential energy of a unit mass .. OGO-6 relative to sea level, numerically equal to the **GEOS 3 satellite** . OGO-C work that would be done in lifting the unit mass GEOS-C satellite .. OSO from sea level to the height at which the mass is GS artificial satellites ... AOSO located; commonly expressed in terms of dy-. geodetic satellites . OSO-1 namic height or geopotential potential. . . GEOS 3 satellite active satellites ... OSO-2 GS geopotential . OSO-3 geopotential height ANNA satellites ... OSO-4 Earth gravitation celestial geodesy . OSO-5 geoelectricity LARGOS satellite ... OSO-6 gravitational fields PAGEOS satellite . OSO-7 height satellite altimetry ... OSO-8 ∞ potential OSO-C potential energy Polar/GGS spacecraft **GEOS satellites (ESA)** GEOS satellites (ESRO) Radiation and Meteoroid satellite geopotential height Sputnik 3 satellite DEF The height of a given point in the artificial satellites Vanguard 3 satellite atmosphere in units proportional to the potential . ESA satellites energy of unit mass (geopotential) at this height, **GEOS satellites (ESA)** . Wind/GGS spacecraft ESA spacecraft Ariel satellites relative to sea level. communication satellites geopotential . ESA satellites GS geopotential height GEOS satellites (ESA) **EOLE** satellites meteorological satellites PEOLE satellites potential energy Earth magnetosphere geopotential height European space programs atmospheric pressure Earth atmosphere Geosari project space laboratories unmanned spacecraft Earth gravitation GEOS satellites (ESRO) Vanguard satellites geodetic accuracy gravitational fields USE GEOS satellites (ESA) geophysics Geosari project head (fluid mechanics) DEF Launch of GEOS on second developscale height

DEF The physics of the Earth and its environment, i.e., its solid earth, air, waters, and (by extension) space. Classically, geophysics is concerned with the nature of and physical occurrences at and below the surface of the Earth including, therefore, geology, oceanography, ge-odesy, seismology, and hydrology. The trend is to extend the scope of geophysics to include meteorology, geomagnetism, astrophysics, and

Geopotential Research Mission

DEF A NASA gravity field mapping mission utilizing the low-low satellite tracking concept to measure the Doppler shift between two coorbiting polar satellites. Used for Gravsat satellites.

UF Gravsat satellites

artificial satellites GS

ment flight of Ariane launcher into a geostationary elliptical orbit in 1979. The name is derived from a combination of GEOS and ARIane. GS programs

. projects

. . Geosari project
Ariane launch vehicle European Space Agency GEOS satellites (ESA)

Geosat satellites

GS artificial satellites

. geodetic satellites

. Geosat satellites

RT satellite altimetry

GEOS-B satellite

USE GEOS 2 satellite

GEOS-C satellite

USE **GEOS 3 satellite** 

#### **GEOS-D** satellite

DEF Another in a series of the European Space Agency's geostationary scientific satellites launched by NASA for long-term cosmic radiation studies. Used for Geodynamic Experimental Ocean Satellite.

UF Geodynamic Experimental Ocean

Satellite

GS artificial satellites

. GEOS-D satellite

geosphere

USE lithosphere

Geostationary Operational Environ Sats USE GOES satellites

Geostationary Operatl Environ Satellite B

USE GOES 2

geostationary platforms

USE synchronous platforms

geostationary satellites

USE synchronous satellites

# geostrophic wind

DEF The horizontal wind velocity for which the coriolis acceleration exactly balances the horizontal pressure force.

GS wind (meteorology)

. winds aloft

. geostrophic wind

baroclinic instability

baroclinic waves

divergence

isobars (pressure)

sea breeze

wind shear

Geosynchronous Earth Orbital Environments

USE Earth orbital environments

# geosynchronous orbits

GS orbits

- . Earth orbits
- . . geosynchronous orbits
- . spacecraft orbits
- . . satellite orbits

. . geosynchronous orbits

circular orbits

equatorial orbits

Infrared Astronomy Satellite

stationary orbits

synchronous platforms

twenty-four hour orbits

# geosynclines

DEF Mobile downwarpings of the crust of the Earth, either elongate or basinlike, measured in scores of kilometers, in which sedementary and igneous rocks accumulate to thicknesses of thousands of meters.

anticlines RT

domes (geology)

∞ lavers

strata

stratification

stratigraphy

synclines

# geotechnical engineering

DEF The science and practice of that part of civil engineering involving the inter-relationship between a geologic environment and the works of man.

RT foundations

392

soil mechanics structural design criteria structural engineering

### geotechnical fabrics

Generic term for a variety of artificial fiber products used in engineering construction of civil works such as embankments. Also called geofabrics, filter cloth, geotextiles and civil engineering fabrics. Used for geofabrics and geotex-

UF geofabrics

geotextiles

fabrics RT

soil mechanics

#### geotemperature

Internal temperature of the planet Earth. Used for geothermometry.

geothermometry

geology

geothermal anomalies

temperature

geotextiles

USE geotechnical fabrics

### geothermal anomalies

anomalies GS

. geothermal anomalies

geotemperature geothermal resources surface temperature thermal mapping

#### geothermal energy conversion

energy conversion

geothermal energy conversion

clean energy ∞ conversion

Earth resources

engines

geothermal technology

heat transfer

heat transmission

ocean thermal energy conversion

renewable energy

thermal energy turbines

turbogenerators

#### geothermal energy extraction

DEF The removal for storage and/or utilization of heat from natural sources within the Earth (hot springs, geysers, hot rocks, etc.)

GS extraction

geothermal energy extraction RT

energy conversion energy technology geothermal technology heat exchangers

heat pumps

heat transmission

heating turbines

turbogenerators

water heating

# geothermal energy utilization

DEF Any application of energy derived from sources within the Earth.

GS renewable energy

geothermal energy utilization

utilization

geothermal energy utilization cooling

∞ electric power energy storage

geothermal technology

heat pipes

heat storage heating

∞ power plants turbogenerators

# geothermal resources

GS heat sources

. thermal resources . . geothermal resources

. . . geysers

resources

. Earth resources

. . thermal resources

. . . geothermal resources

. . . geysers

RT dry heat ∞ energy sources

geophysical fluids geopressure

geothermal anomalies heat transmission hydrothermal systems

thermal energy thermal mapping

underwater resources

volcanoes

# geothermal technology

DEF The gamut of operations involved in the exploration, exploitation, and conversion of energy derived from geothermal sources.

technologies

energy technology
. geothermal technology
RT dry heat
exploration

geophysical fluids

geopressure geothermal energy conversion geothermal energy extraction

geothermal energy utilization geysers

heat sources heat transfer

ocean thermal energy conversion

resources

thermal resources

geothermometry USE geotemperature

# geotropism

GS tropism

geotropism

gravitational effects physiological effects plants (botany)

GEP telescopes

USE particle telescopes

Gerdien arc heaters arc heating USE

# heating equipment

Gerdien condensers

measuring instruments
. Gerdien condensers

capacitors ion density (concentration)

geriatrics medical science GS

. geriatrics

aging (biology) gerontology

German Democratic Republic USE East Germany

**German Infrared Laboratory** DEF A proposed infrared telescope for Spacelab that was discontinued in 1985. It superseded the LIRTS (telescope).

telescopes . spaceborne telescopes

German Infrared Laboratory payloads space shuttles

Spacelab West Germany

# German space program

(added December 1990)

programs

. space programs . . European space programs

German space program

East Germany

Germany

Saenger space transportation system RT ∞ oxygen compounds geothermal technology West Germany hydrogeology germanium rectifiers hydrothermal systems USE germanium diodes germanates GGG (garnet) GS germanium compounds Germany gadolinium-gallium garnet USE germanates (added December 1990) . . magnesium germanates nations GS Ghana Germany nations GS germanides Central Europe Ghana germanium compounds GS East Germany RT Africa germanides Europe . magnesium germanides German space program ghosts germanium alloys West Germany distortion RT radar echoes germicides germanium radio echoes USE bactericides chemical elements GS Giacobini-Zinner comet . metalloids germination . . germanium GS celestial bodies RT crop growth ... germanium isotopes . comets growth . Giacobini-Zinner comet phytotrons Draconid meteoroids germanium alloys plant physiology solar system GS alloys viability germanium alloys giant stars germanides RT germinators GS celestial bodies silicon alloys USE phytotrons . stars . . giant stars germanium antimonides gerontology . . . asymptotic giant branch stars antimony compounds antimonides age factor RT . . . Omicron Ceti star aging (biology) . . . red giant stars . germanium antimonides geriatrics . carbon stars germanium compounds life span RT cool stars germanium antimonides F stars **GERT** G stars graphic evaluation and review germanium chlorides horizontal branch stars . techniques germanium compounds K stars RT critical path method germanium chlorides late stars management halogen compounds M stars management analysis . chlorine compounds main sequence stars management methods management planning ∞ methodology . . chlorides S stars . germanium chlorides subgiant stars . halides supergiant stars **PERT** . . chlorides project management ... germanium chlorides gibberellins GS plants (botany) Gestalt theory . fungi germanium compounds RT psychotherapy . gibberellins germanium compounds ∞ theories hemostatics . germanates regulators Get Away Specials (STS)

DEF Low-cost, man-independent Space Shuttle experimental payloads. . . magnesium germanates . germanides Gibbs adsorption equation . . magnesium germanides RT adsorption . germanium antimonides payloads ∞ equations . germanium chlorides Space Shuttle payloads . germanium oxides Get Away Specials (STS) interfacial tension organic germanium compounds OSS-1 payload RT ∞ chemical compounds Space Shuttle missions ∞ Gibbs equations spaceborne experiments (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ∞ metal compounds Spacelab Spacelab payloads RT ∞ equations germanium diodes **GETOL** aircraft Gibbs adsorption equation germanium rectifiers ground effect machines Gibbs free energy GS electronic equipment GETOL aircraft Gibbs-Helmholtz equations . diodes RT ∞ aircraft phase rule . . semiconductor diodes ∞ subsonic aircraft ... germanium diodes vertical takeoff aircraft Gibbs free energy . solid state devices GS heat . . semiconductor devices . enthalpy . . germanium diodes DEF Materials which are included in a . . Gibbs free energy rectifiers vacuum system or device for removing gas by thermodynamic properties germanium diodes . enthalpy sorption. junction diodes RT ion pumps transistors . free energy propargyl groups purification germanium isotopes residual gas RT ∞ Gibbs equations GS chemical elements vacuum Gibbs-Helmholtz equations . metalloids vapor traps Mayer problem . . germanium . . . germanium isotopes Gibbs phenomenon geysers . nuclides GS heat sources discontinuity . . isotopes . thermal resources Fourier series ... germanium isotopes . . geothermal resources series (mathematics) . . geysers germanium oxides Gibbs-Helmholtz equations resources GS chalcogenides . Earth resources RT electric potential enthalpy . oxides . . thermal resources . germanium oxides . . . geothermal resources equations germanium compounds free energy ... geysers

RT anomalous temperature zones

germanium oxides

∞ Gibbs equations

Gibbs free energy metal plates ... testes internal energy . . . hypothalamus girders pressure . . . pancreas structural members temperature GS parathyroid gland girders . . . pineal gland beams (supports) pituitary gland Gibraltar box beams . . . thymus gland (added February 1992) girder webs . . . thyroid gland nations plates (structural members) . . mammary glands . United Kingdom trusses . . salivary glands Gibraltar . . sebaceous glands Europe airdles . . sex glands Mediterranean Sea RT ∞ belts . . . gonads Spain pelvis . . . . ovaries straits . . . . testes glacial drift . . prostate gland A general term for drift transported by gimballess inertial navigation RT endocrine systems glaciers or icebergs and deposited directly on navigation gastrointestinal system land or in seas. Used for drumlins, end mo-. inertial navigation ∞ glands raines, eskers, glaciofluvial deposits, moraines, . . gimballess inertial navigation liver and Stoss-and-Lee topography. gyroscopes organs drumlins inertial platforms secretions end moraines navigation instruments eskers glands (seals) glaciofluvial deposits seals (stoppers) GS gimbals moraines Stoss-and-Lee topography glands (seals) Devices with two mutually perpendicu-RT ∞ glands lar and intersecting axes of rotation, thus giving labyrinth seals debris free angular movement in two directions, on glaciers O ring seals which engines or other objects may be mounted. kettles (geology) packings (seals) In gyros, supports which provide the spin axes land ice pump seals with degrees of freedom. landforms sealing RT bearings sea ice control moment gyroscopes sediments glare fluid rotor gyroscopes DFF A condition of vision in which there is gyrodampers glaciers disconfort or a reduction in ability to see details, gyroscopes Large masses of ice formed, at least in objects, or both, caused by an unsuitable distripivots part, on land by the compaction and recrystallibution or range of luminance, or by extreme stabilized platforms zation of snow, moving slowly by creeping downslope or outward in all directions due to the conditions in space. supports RT brightness swivels stress of their own weight, and surviving from comfort year to year. Included are small mountain gladayglow Ginga satellite ciers as well as ice sheets continental in size, electromagnetic radiation and ice shelves which float on oceans but are (added June 1992) human factors engineering GS artificial satellites fed in part by ice formed on land. Used for active illuminating glaciers and advancing glaciers. . scientific satellites light (visible radiation) UF active glaciers . . astronomical satellites luminance advancing glaciers . Ginga satellite luster GS crevasses Japanese spacecraft optical properties glaciers Ginga satellite radiance ice observatories sky brightness . glaciers . astronomical observatories specular reflection resources . . astronomical satellites spread reflection . Earth resources . . Ginga satellite visibility . glaciers Japanese space program vision cirques (landforms) x ray astronomy glacial drift x ray spectra glass glaciology x ray stars glass land ice borosilicate glass sea ice . E glass Giotto mission . . S glass The European Space Agency's misglaciofluvial deposits . glass fibers sion to fly through the head of Halley's Comet in USE glacial drift . metallic glasses order to make in situ measurements of the obsidian glass composition and physical state as well as the structures of the head. Included in the onboard glaciology Pyroceram (trademark) The study of all aspects of snow and . silica glass equipment are cameras to determine the strucice; the science that treats quantitatively the . spin glass tures, spectrometers to determine the composiwhole range of processes associated with all . Vycor tion, and a plasma detector and a magnetomforms of solid existing water. RT amorphous materials eter to measure the interactions with the solar GS geology ceramics wind. The time of encounter with the comet was glaciology electrostatic bonding during the second week of March 1986. geomorphology glass transition temperature ESA spacecraft GS glaciers glassware Giotto mission hydrogeology glassy carbon Griffith crack space missions isostasy . flyby missions materials . Giotto mission ∞ glands moldavite (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) glands (anatomy) unmanned spacecraft obsidian . space probes optical coatings Giotto mission optical materials RT Halley's comet glands (seals) optical properties pump seals photographic plates airder webs porcelain GS structural members glands (anatomy) silicon dioxide . plates (structural members) anatomy vitreous materials girder webs . glands (anatomy) vitrification webs (supports) . endocrine glands girder webs . . . adrenal gland glass coatings . . . gonads RT elastic sheets (COATINGS CONSISTING OF GLASS)

. . . . ovaries

coatings

airders

. glass coatings . . X-20 aircraft glass laboratory equipment . hang gliders alazes metallic glasses . HL-10 reentry vehicle pipettes protective coatings silica glass . hypersonic gliders . . X-20 aircraft silica glass . Janus spacecraft glass electrodes DEF Form of carbon with unique properties . paragliders GS electrodes and characteristics. Formed by carbonizing phe-. inflatable gliders glass electrodes nolic resins made by reacting phenols with cel-RT aerospace planes electrochemistry lulosics, aldehydes, and ketones. ∞ aircraft ion exchanging composite materials flexible wings silica glass glassy carbon free flight carbon gliding glass fiber reinforced plastics alass lifting reentry vehicles GS composite materials ∞ materials military aircraft . fiber composites monoplanes glass fiber reinforced plastics Glauber theory observation aircraft . polymer matrix composites approximation sails sailwings . . reinforced plastics elastic scattering ... glass fiber reinforced plastics Pomeranchuk theorem Schleicher aircraft plastics ∞ theories soaring . reinforced plastics ∞ subsonic aircraft glass fiber reinforced plastics glaucoma towed bodies airframe materials diseases ∞ winged vehicles composite structures . eye diseases E glass . glaucoma fiber orientation intraocular pressure gliding boostglide vehicles fibers Glauert coefficient descent **laminates** plastic aircraft structures USE aerodynamic forces ∞ flight flight paths Mach number pultrusion reinforcing fibers free flight glazes glide paths S glass thermoplastic resins coatings GS gliders glazes thermosetting resins finishes ∞ motion woven composites . glazes soaring glass fibers ceramics frit UF fiberglass Glimm method GS glass coatings fibers . synthetic fibers porcelain Numerical technique for solving gas dynamics problems involving hyperbolic sysglass fibers protective coatings tems of conservation laws. glass GS analysis (mathematics) glass fibers glide angles optical materials USE glide paths . numerical analysis . Glimm method glass fibers procedures glide landings boron fibers . Glimm method landing GS E glass  $RT \, \infty \, equations$ glide landings gradient index optics fluid dynamics . horizontal spacecraft landing metallic glasses ∞ methodology aircraft landing optical fibers crash landing plastic fibers ditching (landing) reinforcing fibers glint planetary landing S glass angels (radar) soft landing silica glass radar echoes spacecraft landing Vycor scintillation water landing glass lasers
DEF High power lasers used in laser fusion glide paths global air pollution DEF Flight paths of aeronautical vehicles in a glide, seen from the side. The paths used by technology research. pollution stimulated emission devices . environment pollution aircraft or spacecraft in approach procedure and . lasers . . air pollution which are generated by instrument landing fa-. glass lasers . . global air pollution high power lasers cilities. Used for glide angles and glide slopes. Earth atmosphere laser fusion UF glide angles environments glide slopes laser outputs global warming laser plasma interactions GS flight paths pollution monitoring glide paths laser targets pollution transport neodymium lasers slopes glide paths optical pumping aircraft approach spacing pulsed lasers **Global Air Sampling Program** approach control GASP ultrashort pulsed lasers approach indicators air pollution glass transition temperature air sampling instrument approach GS temperature environmental quality instrument landing systems glass transition temperature sampling terminal guidance curina epoxy resins glide slopes Global Atmospheric Research Program glass polymer chemistry USE glide paths GARP polymer physics programs . Global Atmospheric Research temperature effects DEF A heavier-than-air aircraft that is suptransition temperature Program . GARP Atlantic Tropical Experiment ported in flight by the dynamic reaction of the air against its lifting surface and whose free flight does not depend principally on an engine. aerology glassware RT borosilicate glass integrated global ocean station sailplanes bottles UF systems

gliders

ASSET gliders

. boostglide vehicles

GS

burettes

∞ containers

flasks

meteorology

weather

NASA programs

weather reconnaissance aircraft . proteins light sources . . globulins plasma display devices Global Communications Antenna Grid (navv) . . . fibrinogen plasma radiation . . gamma globulin USE Seafarer project organic compounds glucocorticoids Global Orbiting Navigation Satellite Sys. . proteins (added December 1999) USE GLONASS . globulins DEF Adrenocortical steroid hormones that . . . fibrinogen are involved in the metabolism of fats, proteins, **Global Positioning System** . . . gamma globulin and carbohydrates, and have anti-inflammatory DEF A satellite navigation system which will properties. display many (up to 24) satellites in three sets of glomerulus GS organic compounds orbits by means of a precise time standard and GS anatomy . lipids three-dimensional information on position and . circulatory system . . steroids . . cardiovascular system ... corticosteroids satellite navigation systems GS ... blood vessels ... glucocorticoids Global Positioning System . . . . capillaries (anatomy) secretions autonomous spacecraft clocks . . . . . glomerulus . endocrine secretions flight paths . genitourinary system . . hormones **GLONASS** . . kidneys ... corticosteroids navigation . . glomerulus ... glucocorticoids orbit determination RT renal function RT adrenal gland position indicators atrophy positioning **GLONASS** carbohydrate metabolism satellite constellations (added September 1994) hormone metabolisms space navigation Global Orbiting Navigation Satellite hypokinesia ∞ svstems Svs. lipid metabolism time synchronization GS satellite navigation systems muscles GLONASS protein metabolism Global Tracking Network
UF GLOTRAC (tracking network) Global Positioning System international cooperation GS networks glucose positioning GS organic compounds . tracking networks Russian Space Program . carbohydrates . Global Tracking Network U.S.S.R. space program . . sugars stations . . . monosaccharides . tracking stations
.. Global Tracking Network Glory Mission satellite . . . . hexoses (added July 2006)
DEF A low Earth orbit (LEO) scientific re-. . . . . glucose data acquisition ground stations search satellite designed to collect data on the minitrack system alucosides properties of aerosols and black carbon in the NASCOM network Earth's atmosphere and climate system; and collect data on solar irradiance for the long-term UF glycosides optical tracking organic compounds effects on the Earth climate record. radio relay systems . carbohydrates range and range rate tracking . . glucosides artificial satellites satellite tracking . . . nucleosides . scientific satellites
. . Glory Mission satellite Space Flight Tracking and Data . . . . adenines Network . . . . guanosines observatories STDN (network) Glory Mission satellite RT aerosols glues global warming adhesives climate change GS (added December 1989) glues climatology heating global warming pastes . atmospheric heating satellite observation sizing materials global warming tetraethyl orthosilicate atmospheric temperature climate change glossaries gluons global air pollution USE dictionaries The carriers of the strong force which Glory Mission satellite holds atomic nuclei together (holding together groups of quarks making up stable particles, greenhouse effect Gloster GA-5 aircraft Mission to Planet Earth USE GA-5 aircraft which in turn are bound together in the atomic stratospheric warming nuclei). GLOTRAC (tracking network) GS particles globes USE **Global Tracking Network** . elementary particles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Earth (planet) . . hypothetical particles alottis . . gluons GS anatomy RT leptons luminaires . respiratory system mesons . . larynx maps quantum chromodynamics spheres . glottis quarks RT vocal cords globular clusters glutamates celestial bodies gloves GS esters clothing . star clusters GS glutamates . globular clusters gloves alutamic acid protective clothing RT ∞ clusters RT color-magnitude diagram glutamic acid galactic halos glow GS acids USE luminescence horizontal branch stars . amino acids metallicity . glutamic acid glow discharges Population II stars organic compounds DEF Electrical discharges that produce lustar distribution . amino acids minosity. glutamic acid GS electric current alobules RT glutamates falling spheres interfacial tension . electric discharges glow discharges RT cathode glow liquids alutamine electric arcs GS acids microballoons

electric corona

gas discharges

electrodeless discharges

Faraday dark space

. amino acids

. glutamine

organic compounds . amino acids

396

globulins

spheres

GS biopolymers

. . glutamine projective geometry . . Goertler instability . flow characteristics . . flow stability glutathione gnotobiotics GS organic compounds The study of germ free animals. Goertler instability . coenzymes bacteria stability . glutathione bacteriology . dynamic stability . peptides closed ecological systems . . motion stability . . polypeptides controlled atmospheres . . . flow stability glutathione isolation ... Goertler instability microbiology boundary layer stability glycerides microorganisms boundary layer transition GS esters sterilization centrifugal force . glycerides laminar boundary layer glycerols **GNP** rotating fluids nitroglycerin USE gross national product rotating liquids Taylor instability glycerins goal theory vortices USE glycerols RT goals wall flow ∞ theories glycerols GOES 1 UF glycerins goals The first in a series of geostationary RT alcohols achievement operational environmental satellites launched in carbohydrates engineering management October 1975. It ceased operation in June of glycerides goal theory 1977. lipids project planning GS artificial satellites liquids purposes . meteorological satellites nitroglycerin research management . . GOES satellites triacetin ... GOES 1 goats . synchronous satellites glycidyl azide polymer GS animals . . GOES satellites (added August 1990) UF GAP (propellants) . vertebrates .. GOES 1 . . mammals RT meteorological satellites RT ∞ polymers . . . goats propellant binders grazing GOES 2 solid rocket binders livestock DEF The second in a series of geostationglycine Gobi desert ary operational environmental satellites GS acids GS land launched in June 1977. Used for Geostationary . amino acids Operatl Environ Satellite B. deserts Gobi desert Geostationary Operatl Environ . glycine organic compounds arid lands Satellite B . amino acids artificial satellites desertification . meteorological satellites . . glycine Goddard experiment package telescope . . GOES satellites glycogens USE particle telescopes ... GOES 2 biopolymers . synchronous satellites **Goddard Trajectory Determination System** . . GOES satellites . polysaccharides glycogens .. GOES 2 organic compounds computer programs meteorological satellites interplanetary trajectories carbohydrates SMS 1 . . polysaccharides moon-Earth trajectories SMS<sub>2</sub> orbit calculation ... glycogens orbital mechanics GOES 3 orbital position estimation glycols DEF The third in a series of geostationary hydroxyl compounds spacecraft trajectories GS operational environmental satellites launched in ∞ systems alcohols June 1978. glycols trajectory analysis GS artificial satellites hydroxyl radicals trajectory optimization RT . meteorological satellites . . GOES satellites glycolysis Godunov method ... GOES 3 GS chemical reactions (added February 1998) . synchronous satellites Non-oscillatory finite-volume scheme glycolysis . . GOES satellites that incorporates the exact or approximate soludecomposition .. GOES 3 glycolysis tion to the Riemann initial-value problem, or a meteorological satellites generalization of it. glycosides GS analysis (mathematics) GOES 4

DEF The fourth in a series of geostationary USE glucosides . numerical analysis . . finite volume method operational environmental satellites launched in ... Godunov method September 1980. DEF A foliated rock formed by regional procedures GS artificial satellites metamorphism, in which bands or lenticles of . finite volume method . meteorological satellites granular materials alternate with bands or len-. Godunov method . . GOES satellites ticles in which minerals having flaky or elongate approximation ... GOES 4 prismatic habits predominate. Generally less Cauchy problem . synchronous satellites than 50 percent of the minerals show preferred Cauchy-Riemann equations . . GOES satellites parallel orientation. Although a gneiss is comcomputational fluid dynamics .. GOES 4 monly feldspar- and quartz-rich, the mineral Euler equations of motion RT meteorological satellites composition is not an essential factor in its finite difference theory definition. shock wave interaction GOES 5

DEF The fifth in a series of geostationary GS rocks supersonic flow . gneiss operational environmental satellites launched in Goertler instability soils DEF Counter-rotating ring vortices formed May 1981. in the annulus between two cylinders rotating gnomonic projection GS artificial satellites A projection on a plane tangent to the with respect to each other. . meteorological satellites surface of a sphere having the point of projec-

Taylor-Goertler instability

dynamic characteristics

. dynamic stability

. . motion stability

. . . flow stability

GS

tion at the center of the sphere. Used in cartog-

raphy and in crystallography.

RT photomapping

∞ projection

. . GOES satellites

. . GOES satellites ... GOES 5

. synchronous satellites

. . . GOES 5

| рт       | meteorological actallitas                 |         | GOES 7                            |          | protective contings                     |
|----------|---|---------|-----------------------------------|----------|---|
| RT       | meteorological satellites                 |         | GOES 7                            |          | protective coatings                     |
| GOES 6   | 3   |         | GOES 9                            | gold is  | ntones                                  |
| DEF      |   |         | GOES 10                           |          | chemical elements                       |
|          | anal environmental satellites launched in |         |                                   | 93       |   |
|          |   |         | GOES 13                           |          | . gold                                  |
| April 19 |   |         | . synchronous satellites          |          | gold isotopes                           |
| GS       |   |         | GOES satellites                   |          | gold 198                                |
|          | . meteorological satellites               |         | GOES 1                            |          | . nuclides                              |
|          | GOES satellites                           |         | GOES 2                            |          | isotopes                                |
|          | GOES 6                                    |         | GOES 3                            |          | gold isotopes                           |
|          | synchronous satellites                    |         | GOES 4                            |          | gold 198                                |
|          | GOES satellites                           |         | GOES 5                            |          | metals                                  |
|          | GOES 6                                    |         | GOES 6                            |          | . noble metals                          |
|          | _   |         | GOES 7                            |          | gold                                    |
| GOES 7   |   |         | GOES 8                            |          | gold isotopes                           |
| GS       | artificial satellites                     |         | GOES 9                            |          | gold 198                                |
|          | . meteorological satellites               |         | GOES 10                           |          | . transition metals                     |
|          | GOES satellites                           |         | GOES 13                           |          | gold                                    |
|          | GOES 7                                    | RT      | ISCCP Project                     |          | gold isotopes                           |
|          | . synchronous satellites                  |         | ,                                 |          | gold 198                                |
|          | GOES satellites                           |         |                                   | RT       | radioactive isotopes                    |
|          | GOES 7                                    | goggle  |                                   |          | •                                       |
|          |   | GS      | clothing                          | gold pla | nte                                     |
| GOES 8   | 3   |         | . goggles                         |          | gold coatings                           |
|          | ed July 1995)                             | RT      | eye protection                    | 002      | go.a coago                              |
| GS       | artificial satellites                     |         | flight clothing                   | Gomne    | rtz curves                              |
| 00       | . meteorological satellites               |         | helmets                           | GS       | charts                                  |
|          | GOES satellites                           |         | protective clothing               | 00       | . graphs (charts)                       |
|          |   |         | sunglasses                        |          |   |
|          | GOES 8                                    |         | 3                                 |          | Gompertz curves                         |
|          | . synchronous satellites                  |         |                                   |          | geometry                                |
|          | GOES satellites                           |         | detector cells                    |          | . curves (geometry)                     |
|          | GOES 8                                    | GS      | measuring instruments             |          | S curves                                |
|          |   |         | . radiation measuring instruments |          | Gompertz curves                         |
| GOES 9   |   |         | radiation detectors               |          | . Euclidean geometry                    |
| (adde    | ed July 1995)                             |         | Golay detector cells              |          | analytic geometry                       |
| GS       | artificial satellites                     | RT      | energy absorption films           |          | S curves                                |
|          | . meteorological satellites               |         | pneumatic equipment               |          | Gompertz curves                         |
|          | GOES satellites                           |         | radiation absorption              |          | •                                       |
|          | GOES 9                                    |         |                                   | gonads   | •                                       |
|          | . synchronous satellites                  |         |                                   | GS       | anatomy                                 |
|          | GOES satellites                           | gold    |                                   |          | . genitourinary system                  |
|          | GOES 9                                    | GS      | chemical elements                 |          | reproductive systems                    |
|          | 0020                                      |         | . gold                            |          | sex glands                              |
| GOES 1   | 10  |         | gold isotopes                     |          | gonads                                  |
|          | ed March 2000)                            |         | gold 198                          |          | ovaries                                 |
| GS       | artificial satellites                     |         | metals                            |          |   |
| 03       |   |         | . noble metals                    |          | testes                                  |
|          | . meteorological satellites               |         | gold                              |          | . glands (anatomy)                      |
|          | GOES satellites                           |         | gold isotopes                     |          | endocrine glands                        |
|          | GOES 10                                   |         | gold 198                          |          | gonads                                  |
|          | . synchronous satellites                  |         | . transition metals               |          | ovaries                                 |
|          | GOES satellites                           |         | gold                              |          | testes                                  |
|          | GOES 10                                   |         | gold isotopes                     |          | sex glands                              |
|          |   |         | gold 198                          |          | gonads                                  |
| GOES 1   |   |         | gold 190                          |          | ovaries                                 |
|          | ed August 2005)                           |         |                                   |          | testes                                  |
|          | A joint NASA/NOAA satellite launched      | gold 19 | 98                                | RT       | physiological effects                   |
| on Aug   | ust 15, 2005 for radiometric imagery,     | GS      | chemical elements                 |          |   |
| atmosph  | neric sounding, and space weather         |         | . gold                            | gondola  | as                                      |
| monitori | ng.                                       |         | gold isotopes                     | RT       | aircraft compartments                   |
| UF       | GOES N                                    |         | gold 198                          |          | airships                                |
| GS       | artificial satellites                     |         | . nuclides                        |          | balloons                                |
| -        | . meteorological satellites               |         | isotopes                          |          | baskets                                 |
|          | GOES satellites                           |         | gold isotopes                     |          | Daditoto                                |
|          | GOES 13                                   |         | gold 198                          | goniom   | eters                                   |
|          | . synchronous satellites                  |         | radioactive isotopes              | DEF      | Instruments for measuring angles.       |
|          | GOES satellites                           |         | gold 198                          | GS       | measuring instruments                   |
|          | GOES 13                                   |         |                                   | 00       | . goniometers                           |
| RT       | marine meteorology                        |         | metals                            |          | . photogoniometers                      |
| 111      | space weather                             |         | . noble metals                    |          |   |
|          | •   |         | gold                              | DT       | radiogoniometers                        |
|          | storms (meteorology)                      |         | gold isotopes                     | RT       | angles (geometry)                       |
| 0050     |   |         | gold 198                          |          | diffractometers                         |
| GOES I   |   |         | . transition metals               |          | etalons                                 |
|          | ed August 2005)                           |         | gold                              |          | interferometers                         |
| USE      | GOES 13                                   |         | gold isotopes                     |          | Mach-Zehnder interferometers            |
|          |   |         | gold 198                          |          | monochromators                          |
|          | satellites                                |         |                                   |          | optical measuring instruments           |
| DEF      |   | مماط دا | love                              |          | refractometers                          |
|          | satellites. Used for Geostationary Opera- | gold al |                                   |          | spectrometers                           |
| tional E | nviron Sats.                              | GS      | alloys                            |          |   |
| UF       | Geostationary Operational Environ         | 5.7     | . gold alloys                     | goodne   | ess of fit                              |
|          | Sats                                      | RT      | copper alloys                     |          | The degree to which the observed        |
| GS       | artificial satellites                     |         | nickel alloys                     |          | cies of occurrence of events in an ex-  |
|          | . meteorological satellites               |         | silver alloys                     |          | at correspond to the probabilities in a |
|          | GOES satellites                           |         |                                   |          | of the experiment.                      |
|          | GOES satellites                           | anld or | natings                           | GS       |   |
|          |   | gold co |                                   | GS       | statistical analysis                    |
|          | GOES 2                                    | UF      | gold plate                        | 5.7      | . goodness of fit                       |
|          | GOES 3                                    | GS      | coatings                          | RI       | fitting                                 |
|          | GOES 4                                    |         | . metal coatings                  |          | mathematical models                     |
|          | GOES 5                                    |         | . gold coatings                   |          | maximum likelihood estimates            |
|          | GOES 6                                    | RT      | nickel plate                      |          | probability distribution functions      |

|   | probability theory  |          | thermoclines  |                    | barley  |
|---|---|----------|---|--------------------|---|
|   | statistical distributions   | RT       |   |                    | corn  |
|   | statistical tests   |          | composition (property)  |                    | millet  |
|   | variance (statistics)   |          | conjugate gradient method                                     |                    | oats  |
|   |   | 0        | o cross sections  |                    | rice  |
| gores                                   |   |          | differences   |                    | sorghum   |
| RT                                      | fabrics   |          | distribution (property)                                       |                    | wheat   |
|   | parachute fabrics   |          | o drop  | RT                 | angiosperms   |
| gorges                                  |   | ٥        | o grade   |                    | Earth resources                                     |
| USE                                     | canyons   |          | gravity gradiometers isobars (pressure)                       | ۰                  | o grains  |
|   | <b>,</b>  |          | isotherms   |                    | grasses<br>seeds                                    |
| GOSS                                    | (support system)  |          | level (horizontal)  |                    | 30003   |
| USE                                     | ground operational support system   |          | optimization  | gramm              | ars   |
|   |   | ۰        | o profiles  | RT                 | languages   |
| GS                                      | ment procurement procurement  |          | slopes  |                    | parsing algorithms                                  |
| GS                                      | government procurement  |          | variations  |                    | semantics   |
| RT                                      | commercial off-the-shelf products   |          | vector analysis   |                    | syntax  |
| • | commodities   | are die. | matara  |                    | vowels  |
|   | contracts   | ∞ gradio |   |                    | words (language)                                    |
|   | federal budgets   | SN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS |                    | 1124  |
|   | services  |          | LISTED BELOW)   |                    | satellite   |
|   |   | RT       | gravity gradiometers  |                    | ed April 1995)                                      |
|   | ment/industry relations   |          | magnetometers   | GS                 | artificial satellites . Soviet satellites           |
| RT                                      | commerce lab  | graduat  | ion   |                    | Granat satellite                                    |
|   | commercialization   | USE      | calibrating   | RT                 | French space program                                |
|   | contract negotiation contractors  | 002      |   |                    | gamma ray astronomy                                 |
|   | contractors   | Graeff ( | calculus  |                    | international cooperation                           |
|   | procurement   | GS       | analysis (mathematics)  |                    | Mir space station                                   |
|   | production  |          | . calculus  |                    | Russian Space Program                               |
| govern                                  | ments   |          | Graeff calculus   |                    | spaceborne astronomy                                |
| RT                                      | constitution  |          | . numerical analysis  |                    | x ray astronomy                                     |
|   | culture (social sciences)   |          | Graeff calculus   |                    |   |
|   | policies  | grafting | 1   |                    | Canyon (AZ)   |
|   | politics  | RT       |   | GS                 | landforms   |
|   | regimes   | 131      | insertion   |                    | . canyons   |
|   | voting  |          |   | RT                 | <b>Grand Canyon (AZ)</b><br>Arizona                 |
| govern                                  | ors   | grain b  | oundaries   | IXI                | Alizolia  |
|   | speed regulators  | GS       | boundaries  | Grand <sup>1</sup> | Tours   |
|   |   |          | . grain boundaries  | UF                 | outer planet missions                               |
|   | (nucleonics)  | RT       | antiphase boundaries  | GS                 | space missions                                      |
|   | led December 2002)  |          | crystal dislocations  |                    | . flyby missions                                    |
| USE                                     | radioisotope heat sources   |          | embedded atom method  |                    | Grand Tours   |
| arahan                                  | •   |          | grain size  |                    | Mariner Jupiter-Saturn flyby                        |
| graben<br>USE                           | s<br>geological faults  |          | intergranular corrosion interstices                           |                    | Mariner Jupiter-Uranus flyby                        |
| USL                                     | geological faults   |          | interstitials   |                    | Voyager 1977 mission                                |
| ∞ grade                                 |   |          | precipitates  | RT •               | ∘ missions  |
| SN                                      | (USE OF A MORE SPECIFIC TERM IS   |          | transgranular corrosion                                       |                    | outer planets explorers                             |
|   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                                      |          | twinning  |                    | space flight  |
| RT                                      | angles (geometry)   |          |   |                    | Voyager 1 spacecraft Voyager 2 spacecraft           |
|   | gradients   | grain br |   |                    | voyager 2 spacecraft                                |
|   | level (horizontal)  | USE      | crack bridging  | arand i            | unified theory                                      |
|   | position (title)  | avain fa | arm ati an  |                    | A theory describing the unification of              |
|   | quality   |          | ormation<br>ed June 2005)                                     |                    | with the other elementary forces in phys-           |
|   | slopes  | SN       | (EXCLUDES FOODLIMITED TO                                      |                    | the weak force, the strong force and the            |
| aradaa                                  | index optics  | 014      | MATERIALS AND PARTICULATES)                                   | electron           | nagnetic force. Used for GUT.                       |
| USE                                     | gradient index optics   | RT •     | ∘ grains  | UF                 | GUT   |
| OOL                                     | gradient index optics   |          | granular materials  | GS                 | field theory (physics)                              |
| gradier                                 | nt index devices  |          | nucleation  |                    | grand unified theory                                |
| USE                                     | gradient index optics   |          | particulates  | RT                 | astrophysics  |
|   |   | grain s  | 70  |                    | big bang cosmology broken symmetry                  |
| -                                       | nt index optics   | GS       | size (dimensions)   |                    | cosmology   |
| DEF                                     | Optical systems with components   |          | . grain size  |                    | Einstein equations                                  |
|   | refractive indexes vary continuously he material used for the optical elements. | RT       | grain boundaries  |                    | electromagnetic fields                              |
| UF                                      | graded index optics   |          | metal fatigue   |                    | electromagnetic interactions                        |
| 01                                      | gradient index devices  |          | microstructure  |                    | electromagnetism                                    |
|   | GRIN (optics)   |          | nanocomposites  |                    | gravitation theory                                  |
| RT                                      | fiber optics  |          | nanocrystals  |                    | gravitational fields                                |
|   | geometrical optics  |          | nanostructure (characteristics)                               |                    | particle theory                                     |
|   | glass fibers  |          | Ostwald ripening  |                    | plasma physics                                      |
|   | lens design   |          | particle size distribution                                    |                    | relativity  |
|   | lenses  | ∞ grains |   |                    | string theory<br>strong interactions (field theory) |
|   | nonlinear optics  | SN       | (USE OF A MORE SPECIFIC TERM IS                               |                    | supersymmetry                                       |
|   | optical properties  |          | RECOMMENDEDCONSULT THE TERMS                                  |                    | symmetry  |
| ,                                       | ∞ optics<br>physical optics   | RT       | LISTED BELOW)<br>crystals                                     |                    | theoretical physics                                 |
|   | ray tracing   | IXI      | grain formation   |                    | weak energy interactions                            |
|   | refractivity  |          | grains (food)   |                    | weak interactions (field theory)                    |
|   |   |          | granular materials  |                    |   |
| gradie                                  | nts   |          | particles   | granite            |   |
| GS                                      | gradients   |          | propellant grains   |                    | rocks   |
|   | . electron density profiles   |          |   |                    | . igneous rocks                                     |
|   | . potential gradients   | grains   |   |                    | granite   |
|   | . pressure gradients  | GS       | farm crops  | RT                 | batholiths  |
|   | . temperature gradients   |          | . grains (food)   |                    | Earth resources                                     |

|               | soils   | graphite-epoxy composites  |           | . Grashof number   |
|---------------|---|--|-----------|--|
|               |   | intercalation  | RT        |  |
| grants        | Assets heateward or transferred auch  | lubricants   |           | Prandtl number   |
| DEF<br>as mon | Assets bestowed or transferred, such ey or land, for a particular purpose.        | moderators<br>nanotubes  |           | Reynolds number  |
| RT            | appropriations  | single crystals  | grasses   | S  |
|               | budgeting   | solid lubricants   | GS        | plants (botany)  |
|               | contracts   | synthetic metals   |           | grasses  |
|               | insurance (contracts)   |  |           | hay  |
|               | NASA programs   | graphite-epoxy composites  |           | reeds (plants)   |
|               | patents   | DEF Structural materials composed of ep-   |           | sea grasses  |
|               | subcontracts  | oxy resins reinforced with graphite.  GS composite materials                                 | RT        | sorghum<br>alfalfa   |
| granula       | ar materials  | . polymer matrix composites  | 17.1      | canopies (vegetation)  |
|               | brittle materials   | epoxy matrix composites  |           | defoliation  |
|               | grain formation   | graphite-epoxy composites  |           | farm crops   |
| 0             | ∞ grains  | . resin matrix composites  |           | farmlands  |
|               | low density materials   | . graphite-epoxy composites  |           | grains (food)  |
| ٥             | ∞ materials<br>particles  | . superhybrid materials  |           | grasslands<br>millet   |
|               | pellets   | graphite-epoxy composites RT braided composites  |           | oats   |
|               | powder (particles)  | carbon fiber reinforced plastics   |           | sod  |
|               | p = (p = )  | ∞ construction materials   |           |  |
| graph t       |   | epoxy resins   | grassh    |  |
|               | The mathematical study of the struc-  | fiber composites   | GS        | animals  |
| `             | graphs and networks.  | graphite   |           | . invertebrates  |
| RT            | combinatorial analysis  | graphite-polyimide composites  |           | arthropods   |
|               | graphs (charts)   | ∞ materials  |           | insects  |
|               | greedy algorithms   | reinforced plastics  |           | grasshoppers   |
|               | mathematical models   | reinforcing fibers   | grassla   | inds   |
|               | set theory  | sheet molding compounds  | UF        | grazing lands  |
| 0             | ∞ theories  | woven composites   |           | meadowlands  |
|               | topology  | graphite-polyimide composites  |           | prairies   |
|               | trees (mathematics)   | DEF Composite materials utilizing graphite   |           | savannahs  |
|               |   | reinforcing fibers in a resin matrix.  | GS        | land   |
| graphic       |   | GS composite materials   |           | . grasslands   |
| GS            | arts  | . polymer matrix composites  | рт        | Llanos Orientales (Colombia)                                 |
|               | . graphic arts  | graphite-polyimide composites  | KI        | agriculture crop growth                                      |
|               | animation   | RT graphite-epoxy composites   |           | Earth resources  |
| RT            | computer animation charts   | graphitization   |           | farm crops   |
| 111           | diagrams  | RT annealing   |           | farmlands  |
|               | drafting (drawing)  | heat treatment   |           | grasses  |
|               | drawings  | noat troutinon   |           | hay  |
|               | engineering drawings  | graphoepitaxy  |           | land use   |
|               | imagery   | DEF The use of artificial surface relief struc-  |           | plains   |
|               | inks  | tures to induce crystallographic orientation in  |           | plowing  |
|               | motion pictures   | thin films.  |           | rangelands   |
|               | multimedia  | RT amorphous materials   |           | rural land use   |
|               | photography   | crystal lattices   |           | rural land use<br>sod  |
| 0             | ∞ projection  | crystal structure  |           | steppes  |
| araphic       | evaluation and review techniques  | graphology   |           | скорроб  |
|               | GERT  | GS handwriting   | Grassm    | ann algebra  |
|               |   | . graphology   | USE       | vector spaces  |
|               | cal user interface  | recognition  |           |  |
|               | ed July 1993)   | . pattern recognition  | ∞ grating |  |
|               | A man-computer interface which relies   | graphology   | SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|               | hical and/or pictorial means for present-   | RT character recognition   |           | LISTED BELOW)  |
|               | user with command options and their<br>Input to a graphical user interface relies | graphs (shorts)  | RT        | gratings (spectra)   |
|               | on the use of point-and-click devices   | graphs (charts)  UF polarization charts  |           | interference grating   |
|               | s a 'mouse'). Most graphical user inter-  | GS charts  |           | optical filters  |
|               | are designed to facilitate multitasking   | graphs (charts)  | grating   | s (spectra)  |
|               | separate application windows (com-  | bond graphs  | UF        | diffraction gratings   |
| puter pr      | rograms).   | Gompertz curves  | GS        | gratings (spectra)   |
| UF            | GUI (computers)   | Mollier diagram  |           | . Bragg gratings   |
| GS            | interfaces  | Patterson map  |           | . echelette gratings   |
|               | graphical user interface  | RT conformal mapping   |           | . echelle gratings   |
| БТ            | windows (computer programs)   | ∞ curves   | RT        | apodization  |
| ΚI            | computer graphics   | fault trees  |           | corrugated waveguides  |
|               | disk operating system (DOS) display devices                                       | graph theory<br>histograms   |           | diffraction radiation Fresnel diffraction                    |
|               | human-computer interface  | nomographs   | ~         | ogratings  |
|               | numan computer interiace  | ∞ origins  | ~         | optical filters  |
| graphit       | e   | Petri nets   |           | photorefractivity  |
| GS            | carbonaceous materials  | recording instruments  |           | Ronchi test  |
|               | . graphite  | representations  |           | Rowland circles  |
|               | pyrolytic graphite  | statistical analysis   |           |  |
|               | minerals  | trees (mathematics)  | graupe    |  |
|               | graphite  | Quality and  | `         | ed March 1989)   |
|               | pyrolytic graphite  | Grashof number   | GS        | precipitation (meteorology)                                  |
| RT            | aluminum graphite composites  | DEF A nondimensional parameter used in   | DT        | . graupel  |
|               | buckminsterfullerene  | the theory of heat transfer. The Grashof number  | RT        | cloud glaciation   |
|               | carbon carbon nanotubes   | is associated with the Reynolds number and the<br>Prandtl number in the study of convection. |           | cloud physics<br>hail  |
|               | electrodes  | GS dimensionless numbers   |           | hailstorms   |
|               | fiber composites  | . Grashof number   |           | ice formation  |
|               | fullerenes  | ratios   |           | ice nuclei   |
|               |   |  |           |  |

| snow  | drag  | gravitational instability                     |
|---|---|---|
| SHOW  | environments  | gravitational physiology                      |
| gravel deposits                                   | Geopotential Research Mission   | gravitropism                                  |
| USE gravels                                       | gravimeters   | gravity perception                            |
| 501 <b>9.1.10.0</b>                               | gravitational constant  | Gravity Probe B                               |
| gravels   | gravitational effects   | Langley complex coordinator                   |
| DEF Coarse, granular aggregates, with             | gravitational fields  | lower body negative pressure                  |
| pieces larger than sand grains, resulting from    | gravitational waves   | orbital resonances (celestial                 |
| the natural erosion of rocks. Used for gravel     | gravity gradiometers  | mechanics)                                    |
| deposits.   | high gravity environments   | Reissner-Nordstrom solution                   |
| UF gravel deposits                                | isostasy  | stellar mass accretion                        |
| GS sediments                                      | low weight  | stellar systems                               |
| . gravels   | Lunar Gravity Simulator   | swingby technique                             |
| soils   | pendulums   | weightlessness                                |
| . gravels   | Roche limit   | 3   |
| RT aggregates                                     | similitude law  | gravitational fields                          |
| alluvium  | terminal velocity   | DEF Regions that give rise to forces of       |
| aquifers  | weight (mass)   | gravitational attraction.                     |
| boreholes   | weightlessness  | UF gravitational potential                    |
| fans (landforms)                                  |   | RT attraction                                 |
| grit  | gravitation theory  | center of gravity                             |
| sands   | GS gravitation theory   | Earth gravitation                             |
|   | . supergravity  | Earth-Moon system                             |
| gravimeters                                       | RT bimetric theories  | field strength                                |
| (added January 1991)                              | dark energy   | field theory (physics)                        |
| DEF Instruments for measuring variations in       | event horizon   | ∞ fields                                      |
| the gravitational field, generally by registering | gauge theory  | geopotential                                  |
| differences in the weight of a constant mass as   | grand unified theory  | geopotential height                           |
| the gravimeter is moved from place to place.      | gravitational fields  | Geopotential Research Mission                 |
| Used for gravity meters.                          | gravitational wave antennas   | grand unified theory                          |
| UF gravity meters                                 | gravitinos  | gravimetry                                    |
| GS measuring instruments                          | gravitons   | gravitation                                   |
| gravimeters                                       | string theory   | gravitation theory                            |
| RT accelerometers                                 | supersymmetry   | gravitational instability                     |
| densitometers                                     | ∞ theories  | gravitational lenses                          |
| geodesy   | unified field theory  | gravity anomalies                             |
| geophysics  | are ritational binding anarmy   | Lagrangian equilibrium points                 |
| gravimetry  | gravitational binding energy  | multipolar fields                             |
| gravitation<br>microdensitometers                 | (added May 1995)<br>GS binding energy   | satellite perturbation                        |
| microdensitometers                                | 3 - 3,  | Schwarzschild metric                          |
| gravimetry  | . <b>gravitational binding energy</b><br>RT accretion disks   | stellar gravitation                           |
| DEF The measurement of gravity or gravi-          | astrophysics  | unified field theory<br>Yang-Mills fields     |
| tational acceleration, especially in geophysics   | binary stars  | rang-ivillis neids                            |
| and geodesy.                                      | ∞ energy  | gravitational instability                     |
| RT ∞ acceleration                                 | gravitational collapse  | (added August 1997)                           |
| accelerometers                                    | neutron stars   | GS dynamic characteristics                    |
| geology   | nuclear binding energy  | . dynamic stability                           |
| geophysics  | stellar gravitation   | . gravitational instability                   |
| gravimeters                                       | otonal gravitation  | stability                                     |
| gravitational fields                              | gravitational collapse  | . dynamic stability                           |
| ∞ measurement                                     | GS collapse   | gravitational instability                     |
| networks  | gravitational collapse  | RT astrophysics                               |
| quantitative analysis                             | RT astrophysics   | galactic evolution                            |
| •   | black holes (astronomy)   | gravitational collapse                        |
| gravireceptors                                    | gravitational binding energy  | gravitational effects                         |
| DEF Highly specialized nerve endings and          | gravitational instability   | gravitational fields                          |
| receptor organs located in skeletal muscles,      | naked singularities   | interstellar matter                           |
| tendons, joints, and in the inner ear which       | neutral currents  | Jeans theory                                  |
| furnish information to the brain with respect to  | protogalaxies   | perturbation                                  |
| body position, equilibrium and the direction of   | quasars   | stellar evolution                             |
| gravitational forces.                             | relativistic plasmas  | stellar gravitation                           |
| GS anatomy  | stellar cores   | avayitational I                               |
| . sense organs                                    | stellar interiors   | gravitational lenses                          |
| gravireceptors                                    | stellar systems   | GS gravitational effects                      |
| otolith organs                                    | supernovae  | . gravitational lenses                        |
| receptors (physiology)                            | white holes (astronomy)   | lenses  |
| . gravireceptors                                  | gravitational agretant  | . gravitational lenses                        |
| otolith organs                                    | gravitational constant  | RT black holes (astronomy)                    |
| RT oculogravic illusions                          | DEF The coefficient of proportionality in   | focusing                                      |
| sensitometry                                      | Newton's law of gravitation.  | gravitational fields                          |
| vertical perception                               | GS constants  | light scattering                              |
| gravitation                                       | . <b>gravitational constant</b><br>RT big bang cosmology  | massive compact halo objects<br>neutron stars |
| DEF The acceleration produced by the mu-          | 3 - 3 - |   |
| tual attraction of two masses, and of magnitude   | gravitation   | relativistic effects relativity               |
| inversely proportional to the square of the dis-  | gravitational effects   | stellar gravitation                           |
| tance between the two centers of mass. Used       | GS gravitational effects  | white holes (astronomy)                       |
| for gravity.                                      | . gravitational lenses  |   |
| UF gravity  | . Lagrangian equilibrium points   | gravitational physiology                      |
| GS gravitation                                    | lunar gravitational effects   | GS physiology                                 |
| . artificial gravity                              | RT acceleration stresses (physiology)   | gravitational physiology                      |
| . Earth gravitation                               | acceleration tolerance  | RT acceleration stresses (physiology)         |
| . gravity anomalies                               | Bond number   | aerospace medicine                            |
| . lunar gravitation                               | clinorotation   | centrifuging stress                           |
| . microgravity                                    |   |   |
|   | clinostats  | clinorotation                                 |
| . planetary gravitation                           | clinostats<br>drop towers   | clinorotation<br>clinostats                   |
|   |   |   |
| planetary gravitation                             | drop towers   | clinostats                                    |

### gravitational wave antennas

RT

GS

hindlimb suspension cordance with some generalized hypothesis of RT cnoidal waves physiological acceleration variation in subsurface density as related to gravitational waves surface topography. physiological effects Kelvin waves physiological responses anomalies planetary waves space flight stress . gravity anomalies ripples stress (physiology) gravitation traveling ionospheric disturbances tilt-table test gravity anomalies water waves Earth gravitation wind (meteorology) gravitational potential gravitational fields gravitational fields Gravsat satellites USE Geopotential Research Mission gravitational radiation gravity assist trajectories USE gravitational waves gray gas USE swingby technique gases gravitational wave antennas gravity gradient satellites gray gas DEF Devices for receiving propagating artificial satellites nongray atmospheres gravitational fields produced by some change in . gravity gradient satellites radiation absorption . . ATS the distribution of matter. Rayleigh scattering GS antennas ... ATS 1 thermal absorption . gravitational wave antennas ... ATS 2 . . . ATS 3 gray scale . . LIGO (observatory) DEF Images that are not colored or multi-. LISA (observatory) ... ATS 4 spectral. . . . ATS 5 antenna design aerial photography cryogenic equipment ... ATS 6 image contrast image enhancement gravitation theory . . . ATS 7 . ATS 8 gravitational waves image processing . . ORBIS CAL satellite DEF Hypothetical waves that travel at the artificial gravity imaging techniques speed of light, by which gravitational attraction is expulsion optical data processing propagated. manned spacecraft pattern recognition OV-1 satellites OV-2 satellites gravitational radiation grazing celestial bodies GS ingestion (biology) celestial mechanics OV-3 satellites . grazing Earth-Moon system OV-4 satellites RT animals gravitation OV-5 satellites cattle gravity waves satellite attitude control LIGO (observatory) deer satellite control goats LISA (observatory) spin reduction horses ∞ radiation unmanned spacecraft rangelands ∞ waves rural land use gravity gradiometers swine gravitinos GS measuring instruments particles . gravity gradiometers grazing flow elementary particles gradients acoustic attenuation RT . . hypothetical particles acoustic ducts . gravitinos gravitation acoustic impedance . neutral particles . . gravitinos baryons acoustic measurement gravity meters acoustic properties USE gravimeters aeroacoustics cosmology ∞ flow decoupling gravity perception (added August 2004)
DEF Process whereby a bodily structure or noise reduction gravitation theory orifice flow gravitons organism (animal or plant) receives or detects a resonators neutrinos shear flow gravity stimulus. The sensing may be direct or particle mass indirect and may or may not initiate a reaction to supergravity grazing incidence weak energy interactions the stimulus. Incidence at a small glancing angle. DFF GS perception GS incidence gravity perception . grazing incidence The hypothetical elementary units of acceleration stresses (physiology) aberration gravitation which are equivalent in the electrons acceleration tolerance angles (geometry) in electromagnetic theory. aerospace medicine grazing incidence telescopes particles GS centrifuging stress optical measurement elementary particles gravitational effects ray tracing . . hypothetical particles gravitropism x ray optics . . gravitons head up tilt atomic structure proprioception Grazing Incidence Solar Telescope gravitation theory space flight stress USE GRIST (telescope) gravitinos supergravity **Gravity Probe B** grazing incidence telescopes DEF An experiment designed to measure GS telescopes general relativistic induced torques on a gyrogravitropism grazing incidence telescopes scope in orbit about the Earth. tropism . . GRIST (telescope) gravitropism gravitational effects RT grazing incidence gyroscopes auxins x ray astronomy calmodulin NASA programs x ray telescopes gravitational effects relativity gravity perception grazing lands plant physiology gravity waves USE grasslands plants (botany) DEF Waves in an interface between fluids of vegetation growth different density in which the restoring force is greases

RT fats

Great Basin (US)

GS landforms

kerogen

**lubricants** 

petroleum products

thickeners (materials)

gravity.

elastic waves

surface waves

. capillary waves gravity waves

. capillary waves

. . gravity waves

. . . baroclinic waves

. . . baroclinic waves

GS

aravity

USÉ

gravitation

The differences between the observed

values of gravity at different points and the theoretical calculated value. They are based on a simple gravity model, usually modified in ac-

gravity anomalies

|                     | . structural basins                    | Europe   | . Gregori                                    | ian antennas                                     |
|---------------------|--|--|--|--|
|                     | Great Basin (US)                       | Greek space program                                | RT antenna                                   | desian   |
|                     | . terraces (landforms)                 |  | antenna t                                    |  |
|                     |  | aroody algorithms                                  |  |  |
|                     | plateaus                               | greedy algorithms                                  |  | radiation patterns                               |
|                     | Great Basin (US)                       | (added March 2000)                                 | Cassegra                                     | ain antennas                                     |
|                     | regions                                | DEF Any algorithm characterized by a pro-          | microway                                     | e antennas                                       |
|                     | . Great Basin (US)                     | cedure that selects the most extreme element       |  |  |
| RT                  | California                             | from a set to satisfy a given goal. A recursive    |  |  |
| 1 1 1               |  |  | Grenada                                      |  |
|                     | Earth resources                        | procedure for constructing a set of objects from   |  | n, 1000)   |
|                     | folds (geology)                        | the smallest possible elements.                    | (added Februar                               |  |
|                     | formations                             | GS mathematical logic                              | GS landforms                                 | S  |
|                     |  | . algorithms                                       | . islands                                    |  |
|                     | geology                                | S .  | West I                                       | ndies  |
|                     | Nevada                                 | greedy algorithms                                  |  |  |
|                     | structural properties (geology)        | RT graph theory                                    | Gren   | iaua   |
|                     | Utah                                   | heuristic methods                                  | nations                                      |  |
|                     |  | minimax technique                                  | . Grenad                                     | la   |
| Great E             | Pritain                                | · · · · · · · · · · · · · · · · · · ·              | RT Caribbea                                  | n region   |
|                     |  | optimization                                       | TTT Ganbboa                                  | in region  |
| USE                 | United Kingdom                         |  |  |  |
|                     |  | Greek space program                                | are node o                                   |  |
| great c             | ircles                                 | (added August 1990)                                | grenades                                     |  |
| DEF                 | Circles which intersect a sphere and a | GS programs  | RT ammuniti                                  |  |
|                     | nrough its center.                     | . •  | incendiar                                    | y ammunition                                     |
| •                   | •                                      | . space programs                                   | pyrotechr                                    | nics   |
| GS                  | geometry                               | European space programs                            | ρ).σισσ                                      |  |
|                     | . Euclidean geometry                   | Greek space program                                |  |  |
|                     | circles (geometry)                     | RT Greece  | arid computing (                             | computer networks)                               |
|                     | great circles                          | ICI GICCOC   |  | computer networks)                               |
| БТ                  |  | **   | (added Decemi                                | ber 2003)  |
| RT                  | flight optimization                    | green wave effect                                  | SN (LIMITED                                  | TO DISTRIBUTED COMPUTING                         |
|                     | flight paths                           | RT annual variations                               | RESOURC                                      | CES; DOES NOT INCLUDE                            |
|                     | ground tracks                          | botany   | COMPUTA                                      | CES; DOES NOT INCLUDE<br>ATIONAL MESHES USED FOR |
|                     | •                                      |  | MATHEMA                                      | ATICAL ANALYSIS)                                 |
|                     | trajectories                           | chlorophylls                                       | DEF The use                                  | and development of large-                        |
| _                   |  | ∞ effects  |  | systems that enable location-                    |
| Great I             | _akes (North America)                  | foliage  |  |  |
| GS                  | lakes                                  | leaves   |  | ss to geographically dispersed                   |
|                     | Great Lakes (North America)            | icaves   | computational reso                           | ources such as supercomput-                      |
|                     | ,                                      |  | ers, data archives.                          | , and computational software;                    |
|                     | Lake Erie                              | greenhouse effect                                  | may also incorpor                            | rate remote access to instru-                    |
|                     | Lake Huron                             | DEF The heating of the Earth's surface be-         |  |  |
|                     | Lake Michigan                          | cause outgoing long-wavelength terrestrial ra-     |  | st-facility interfaces, and sup-                 |
|                     | Lake Ontario                           |  | porting information                          | n resources.                                     |
|                     |  | diation is absorbed and re-emitted by the carbon   | UF computati                                 | tional grids (computer                           |
|                     | Lake Superior                          | dioxide and water vapor in the lower atmo-         | netwo  |  |
| RT                  | Canada                                 | sphere and eventually returns to the surface.      |  | ,  |
|                     | canals                                 | RT atmospheric heat budget                         |  | on Power Grid                                    |
|                     | Earth resources                        | atmospheric radiation                              | IPG (NAS                                     | SA Information Power Grid)                       |
|                     |  |  | metacom                                      | puting   |
|                     | inland waters                          | chlorofluorocarbons                                | GS data prod                                 |  |
|                     | International Field Year for Great     | climate change                                     |  | ed processing                                    |
|                     | Lakes                                  | Earth atmosphere                                   |  |  |
|                     | resources                              | ∞ effects  | grid c                                       | omputing (computer                               |
|                     |  |  |  | networks)  |
|                     | United States                          | environment effects                                |  | r networks                                       |
|                     | water flow                             | Gaia hypothesis                                    |  |  |
|                     | water resources                        | global warming                                     |  | on systems                                       |
|                     |  | insolation   | supercon                                     | nputers  |
| Groat F             | Plains Corridor (North America)        |  |  |  |
|                     |  | terrestrial radiation                              |  |  |
| GS                  | corridors                              | thermal radiation                                  | grid generation (                            | mathematics)                                     |
|                     | . Great Plains Corridor (North         | Venus clouds                                       | (added August                                |  |
|                     | America)                               | vondo oloddo                                       |  |  |
|                     |  |  | DEF Numerica                                 | al generation of curvilinearco-                  |
|                     | regions                                | greenhouses  | ordinate systems                             | for the numerical solution of                    |
|                     | . Great Plains Corridor (North         | DEF Structures enclosed by glass or plastic        | partial differential                         |  |
|                     | America)                               | devoted to the cultivation or protection of tender |  | neration (mathematics)                           |
| RT                  | agriculture                            |  |  |  |
| 1 1 1               |  | plants or to the production of plants out of       | RT computat                                  | tional fluid dynamics                            |
|                     | Canada                                 | season.  | computat                                     | tional grids                                     |
|                     | plains                                 | RT buildings                                       | coordinat                                    |  |
|                     | rural land use                         | phytotrons   |  |  |
|                     | United States                          |  |  | erence theory                                    |
|                     | Officed States                         | plants (botany)                                    | finite eler                                  | ment method                                      |
|                     | N. 14 1 . 1 . 411T)                    |  | arid refine                                  | ement (mathematics)                              |
|                     | Salt Lake (UT)                         | Greenland  | multigrid                                    |  |
| GS                  | lakes                                  | GS landforms                                       |  |  |
|                     | . Great Salt Lake (UT)                 | . islands  |  | d grids (mathematics)                            |
| RT                  | Earth resources                        |  | unstructu                                    | red grids (mathematics)                          |
| IXI                 |  | Greenland  | Voronoi d                                    | diagrams   |
|                     | hydrology                              | RT Arctic Ocean                                    |  |  |
|                     | inland waters                          | Denmark  |  |  |
|                     | ponds                                  | Dominant   | arid refinement (                            | math amatica)                                    |
|                     | •                                      |  | grid refinement (                            |  |
|                     | Utah                                   | Green's functions                                  | (added August                                | 2003)  |
|                     |  | UF Green's theorem                                 | DEF The dyna                                 | amic modification of computa-                    |
| Great S             | Smoky Mountains (NC-TN)                |  |  | either derived or user-supplied                  |
| GS                  | landforms                              |  |  |  |
|                     | . mountains                            | . real variables                                   |  | a more highly resolved grid.                     |
|                     |  | Green's functions                                  |  | inement (mathematics)                            |
|                     | Great Smoky Mountains (NC-TN)          | functions (mathematics)                            | RT computat                                  | tional grids                                     |
| RT                  | North Carolina                         | . Green's functions                                |  | eration (mathematics)                            |
|                     | Tennessee                              |  | grid gerie                                   | (manomanos)                                      |
|                     |  | RT differential equations                          |  |  |
| CDEE                | antallitan                             | field theory (algebra)                             |  |  |
|                     | satellites                             | field theory (physics)                             | ∞ grids                                      |  |
| SN                  | (GALACTIC RADIATION EXPERIMENTAL       |  | SN (USE OF A                                 | A MORE SPECIFIC TERM IS                          |
|                     | BACKGROUND SATELLITES)                 | half planes  |  | ENDEDCONSULT THE TERMS                           |
| UF                  | Galactic Radiation Exp Background      | half spaces  | LISTED BE                                    |  |
| -                   | sats                                   | Jacobi integral                                    |  | tional grids                                     |
| 00                  |  | many body problem                                  | coordinat                                    |  |
| GS                  | artificial satellites                  | many body problem                                  |  | 100  |
|                     |  |  | ionizers                                     |  |
|                     | . GREB satellites                      |  |  |  |
|                     | . GREB satellites                      | Green's theorem                                    | ∞ matrices                                   |  |
| Greece              |  |  | ∞ matrices                                   |  |
| Greece              | •                                      |  | ∞ matrices<br>mesh                           |  |
| <b>Greece</b><br>GS | nations                                | USE Green's functions                              | ∞ matrices<br>mesh<br>reticles               | -  |
| GS                  | nations<br>. <b>Greece</b>             | USE Green's functions  Gregorian antennas          | ∞ matrices<br>mesh<br>reticles<br>tube grids |  |
|                     | nations                                | USE Green's functions                              | ∞ matrices<br>mesh<br>reticles               |  |

| wire grid lenses                                |          | ing incidence solar telescope.                         | RT             | maintenance  |
|---|----------|--|----------------|--|
| grids (mathematics)                             | UF<br>GS | Grazing Incidence Solar Telescope                      |                |  |
| USE computational grids                         | GS       | telescopes . grazing incidence telescopes              |                | effect (aerodynamics)                                      |
| OOL Computational grids                         |          | GRIST (telescope)                                      |                | Increase in the lift of an aircraft oper-                  |
| Griffith crack                                  | RT       | energy spectra   |                | ose to the ground caused by reaction                       |
| RT crack closure                                |          | solar cosmic rays                                      |                | high-velocity downwash from its wing                       |
| crack propagation                               |          | Spacelab   | or rotor<br>RT | and the ground. aerodynamic drag                           |
| fracture mechanics                              |          | sun  | KI             | aerodynamics   |
| glass   |          |  |                | air cushion landing systems                                |
| ∞ theories                                      | grit     |  |                | cushions   |
| Griffon aircraft                                | RT       | abrasives  |                | downwash   |
| USE Nord 1500 aircraft                          |          | gravels  |                | drag   |
|   |          | particles  | 0              | o effects  |
| Grigg-Skjellerup comet                          |          | sands  |                | ground resonance   |
| GS celestial bodies                             |          | sediments  |                | jet blast effects  |
| . comets  |          |  |                | lift   |
| Grigg-Skjellerup comet                          | groove   |  |                | peripheral jet flow wakes                                  |
| RT ∞ coma<br>comet tails                        | GS       | grooves . V grooves                                    |                | wing-in-ground effect vehicles                             |
| solar system                                    |          | riblets  |                | g g. c c c   |
| solar wind                                      | RT       | corrugating  | around         | offect (communications)                                    |
|   |          | grooving   |                | effect (communications) The effect of ground conditions on |
| Grignard reactions                              |          |  |                | ommunications.   |
| GS chemical reactions                           | groovir  | na   |                | echoes   |
| Grignard reactions                              | UF       | fluting  | 0              | ∘ effects  |
| RT catalysts                                    | RT       | cutting  |                | electromagnetic interference                               |
| GRIN (optics)                                   |          | grinding (material removal)                            |                | electromagnetic noise                                      |
| USE gradient index optics                       |          | grooves  |                | radio attenuation  |
| g. a.i.i.iiidox optioo                          |          | knurling   |                | signal fading  |
| grinding  |          | machining  |                | wave reflection  |
| SN (USE OF A MORE SPECIFIC TERM IS              |          | micromachining   |                |  |
| RECOMMENDEDCONSULT THE TERMS LISTED BELOW)      |          | milling (machining) striation                          | 3              | effect machines  |
| RT grinding (material removal)                  |          | 5  | UF             | air cushion vehicles                                       |
| ,   | ~~~~     | estional product                                       |                | DTMB-111 ground effect machine                             |
| grinding (comminution)                          |          | national product The total value of the goods and ser- |                | DTMB-430 ground effect machine hovercraft                  |
| UF pulverizing                                  |          | roduced in a nation during a specific                  | GS             | ground effect machines                                     |
| GS comminution                                  |          | and also comprising the total expendi-                 | 00             | . Cushioncraft ground effect machine                       |
| . grinding (comminution) RT atomizing           |          | consumers and government plus gross                    |                | . GETOL aircraft   |
| compounding                                     |          | investment. Used for GNP.                              |                | . hovercraft ground effect machines                        |
| crushing  | UF       | GNP  |                | . Westland ground effect machines                          |
| disintegration                                  | GS       | products   |                | . wing-in-ground effect vehicles                           |
| grinding (material removal)                     | DT       | . gross national product                               | RI ∘           | o aircraft   |
| mixing  | RT       | commerce   |                | commercial aircraft<br>• effects                           |
|   |          | costs<br>econometrics                                  |                | ∘ effects<br>∘ flight vehicles                             |
| grinding (material removal)                     |          | finance  | _              | flying platforms   |
| GS grinding (material removal) . metal grinding |          | industries   |                | hovering   |
| RT abrasion                                     |          |  |                | lifting rotors   |
| countersinking                                  | around   | based control  |                | ∘ machinery  |
| cutting   | GS       | ground based control                                   | ۰              | o military aircraft  |
| ∞ grinding                                      |          | . air traffic control                                  |                | passenger aircraft   |
| grinding (comminution)                          |          | automated en route ATC                                 |                | peripheral jet flow  |
| grooving  |          | radar approach control                                 |                | rapid transit systems research aircraft                    |
| machining                                       | RT       | air traffic controllers (personnel)                    |                | subsonic aircraft  |
| metal cutting<br>micromachining                 |          | aircraft approach spacing                              |                | surface vehicles   |
| planing   |          | aircraft control airport surface detection equipment   | 0              | ∘ transport vehicles                                       |
| polishing                                       |          | airport towers   |                | V/STOL aircraft  |
| scarfing  |          | approach   | ۰              | ∘ vehicles   |
| wear  |          | approach control                                       |                | water takeoff and landing aircraft                         |
|   |          | automatic control                                      |                |  |
| grinding machines GS tools                      |          | automatic traffic advisory and                         |                | handling   |
| . machine tools                                 |          | resolution   | GS             | materials handling   |
| . grinding machines                             | ٥        | ocontrol flight control                                | DT             | . ground handling  |
| RT lathes                                       |          | flight management systems                              | RT             | air cargo  |
| ∞ machinery                                     |          | fly by wire control                                    |                | baggage crew procedures (preflight)                        |
| metal grinding                                  |          | guidance (motion)                                      | ۰              | o facilities   |
| milling machines                                |          | instrument landing systems                             |                | flight operations  |
| shapers   |          | integrated mission control center                      |                | hangars  |
| ultrasonic cleaning                             |          | landing aids   |                | mobile lounges   |
| grinding mills                                  |          | missile control  |                | tractors   |
| RT atomizers                                    |          | radar navigation<br>radio control                      |                | trucks   |
| atomizing                                       |          | remote control   |                |  |
| comminution                                     |          | spacecraft control                                     |                | operational support system                                 |
| crushers  |          | spacecraft guidance                                    | UF             | GOSS (support system)                                      |
| impactors                                       |          | traffic control  | GS             | ground support equipment                                   |
| mixers  |          |  |                | . ground operational support                               |
| Gripen aircraft                                 | ground   | clouds   |                | system<br>support systems                                  |
| USE JAS-39 aircraft                             | USE      | exhaust clouds   |                | ground operational support                                 |
|   |          |  |                | system   |
| GRIST (telescope)                               | ground   | crews  |                | weapon systems   |
| DEF An ESA Spacelab payload designed            | GS       | personnel  |                | ground operational support                                 |
| for grazing incidence solar phenomena. Used     |          | . ground crews   |                | system   |

 $RT \, \infty \, systems$ 

#### ground penetrating radar

(added August 1995)

DEF A radar imaging technique in which coherent background propagation of the received reflected wavefield forms a spatial image of the scattering interface within the region of interest.

GS radar

## ground penetrating radar

RT archaeology

Mars Reconnaissance Orbiter nondestructive tests planetary mapping radar geology soil mapping synthetic aperture radar tomography

#### ground resonance

DEF Mechanical phenomenom occurring when a rotor, operating within a certain speed range, experiences coupling between a rotor in-plane mode and a model support system mode, causing vibration in the system.

aerodynamic stability ground effect (aerodynamics)

helicopters rotary wings rotor aerodynamics

#### around speed

GS rates (per time)

ground speed

velocity

ground speed

airspeed RT high speed low speed

### ground squirrels

GS animals

. vertebrates . . mammals

. . . rodents

. . . . squirrels ..... ground squirrels

#### ground state

GS level (quantity)

. energy levels

atomic energy levels

atomic theory density functional theory electron states quantum theory yrast state

# ground stations

GS stations

# . ground stations

. . Deep Space Instrumentation Facility

.. Earth terminals

. integrated mission control center

. polystation doppler tracking system

RT data acquisition

data collection platforms downlinking

Global Tracking Network

integrated global ocean station

Jodrell Bank Observatory

land mobile satellite service

MSAT

networks

ocean data acquisitions systems

pollution monitoring

Space Flight Tracking and Data

Network tracking stations weather stations

# ground support equipment

DEF That equipment on the ground, including all implements, tools, and devices (mobile or fixed), required to inspect, test, adjust, calibrate, appraise, gage, measure, repair, overhaul, assemble, transport, safeguard, record, store, or otherwise function in support of a rocket, space vehicle, or the like, either in the research and development phase or in operational phase, or in support of the guidance system used with the missile, vehicle, or the like.

#### ground support equipment

. ground operational support system

air traffic control aircraft maintenance

airport planning

auxiliary power sources

ballistic cameras

Cape Kennedy launch complex command and control

command guidance crawler tractors

Earth terminal measurement system

equipment flight control

gantry cranes handling equipment

landing aids launching bases launching pads

launching sites maintenance missile launchers

missile storage missiles ordnance

propellant storage radio telemetry refueling

rocket launchers satellite ground support

∞ spacecraft storable propellants

test equipment tracking networks tracking stations

#### ground support systems

support systems

ground support systems

commonality ∞ systems

#### ground tests

ground tests

cold flow tests

prelaunch tests

. . static firing aircraft runup

captive tests

crew procedures (preflight)

electric equipment tests

engine tests

flight tests full scale tests missile tests prefiring tests

preflight operations space electric rocket tests

stability tests static tests test firing ∞ tests

wing flow method tests

DEF The inclination of a satellite, together with its orbital altitude and period of its orbit, create a track defined by an imaginary line connecting the satellite and the Earth's center; the satellite's apparent path over the ground.

#### ground tracks GS

satellite ground tracks

area navigation flight paths great circles orbits

∞ paths

∞ tracks

#### around truth

DEF Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.

# ground-air-ground communication

RT aerial photography

aerial reconnaissance

Airborne Integrated Reconnaissance

System crop identification

imagery in situ measurement photointerpretation photoreconnaissance

spectrophotography

#### ground water

(added February 1991)

DEF That part of the subsurface water that is in the zone of saturation, including underground streams.

groundwater geophysical fluids GS

. ground water water

. inland waters

. . ground water

aquifers Earth resources fresh water limnology

lysimeters potable water soil pollution springs (water) surface water

water flow water resources water runoff water sampling

water tables wells

# ground wave propagation

GS transmission

wave propagation

... ground wave propagation

RT radio waves selective fading sky waves

# ground wind

GS wind (meteorology)

. ground wind

air currents

atmospheric circulation

cyclones gust loads gusts monsoons

squalls

storms (meteorology) tornadoes wind direction wind effects wind erosion wind pressure wind profiles wind shear

wind velocity windmills (windpowered machines)

windpower utilization windpowered generators

# ground-air-ground communication

GS communicating

. ground-air-ground communication

# telecommunication

. ground-air-ground communication aeronautical satellites air traffic control aircraft communication automated en route ATC communication satellites discrete address beacon system optical communication radio communication satellite communication spacecraft communication

**Group 1B compounds** voice communication vanadium compounds a whole, i.e., of an entire group of component simple harmonic waves ∞ Group 6A compounds rates (per time) ground-to-air missiles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN aroup velocity USE surface to air missiles velocity group velocity groundwater RT chalcogenides beat frequencies USE ∞ chemical compounds ground water harmonic motion polonium compounds phase velocity selenium compounds Group 1A compounds propagation velocity sulfur compounds alkali metal compounds quantum mechanics tellurium compounds wave propagation ∞ Group 1B compounds  $\infty$  Group 6B compounds (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)  $\infty$  groups SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) RT ∞ chemical compounds RT ∞ chemical compounds copper compounds categories chromium compounds noble metals classes molybdenum compounds silver compounds subdivisions tungsten compounds Group 2A compounds grout Group 7A compounds USE alkaline earth compounds amorphous materials USE halogen compounds cements Group 2B compounds clays (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS concretes SN ∞ construction materials LISTED BELOW)
cadmium compounds mortars (material) RT ∞ chemical compounds mud ∞ chemical compounds manganese compounds plasters mercury compounds rhenium compounds tiles zinc compounds technetium compounds growth  $\, \, \varpi \, \, \text{Group 8 compounds} \, \,$ UF hypertrophy (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS maturing GS growth LISTED BELOW) aluminum compounds RT ∞ chemical compounds . crystal growth cobalt compounds . . Czochralski method boron compounds iridium compounds . . directional solidification (crystals) ∞ chemical compounds gallium compounds iron compounds . . epitaxy indium compounds nickel compounds . . . atomic layer epitaxy osmium compounds ... electroepitaxy ∞ Group 3B compounds

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) platinum compounds . . . liquid phase epitaxy rhodium compounds ... molecular beam epitaxy ... vapor phase epitaxy group behavior . . hydrothermal crystal growth actinide series compounds USE group dynamics . . protein crystal growth ∞ chemical compounds . . traveling solvent method curium compounds group dynamics . . Verneuil process rare earth compounds UF group behavior . vegetation growth scandium compounds RT dependence . . crop growth yttrium compounds ∞ dynamics . nanostructure growth ethnic factors RT accumulations ∞ Group 4A compounds
SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) problem solving angiogenesis sociology crop calendars ∞ development group technology (manufacturing) carbon compounds evolution (development) (added April 2000) ∞ chemical compounds ∞ formation DEF A manufacturing methodology where germanium compounds germination production processes are organized into groups lead compounds increasing or cells based on similarities in the manufactursilicon compounds inflating ing requirements of product parts or production tin compounds ontogeny equipment capabilities. phytotrons cellular manufacturing shrinkage ∞ Group 4B compounds manufacturing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS sintering . group technology (manufacturing) swelling LISTED BELOW) production engineering timber vigor RT ∞ chemical compounds group technology (manufacturing) timberline hafnium compounds computer aided manufacturing tissue engineering titanium compounds industrial management trends zirconium compounds operations research viability process control (industry) warpage ∞ Group 5A compounds production management vouth (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS group theory growth chambers LISTED BELOW)

pnictides algebra USE phytotrons UF . group theory RT antimony compounds . . homomorphisms growth hormone arsenic compounds . . . automorphisms (added August 2004) bismuth compounds . . . monoids USE pituitary hormones ∞ chemical compounds . . subgroups nitrogen compounds chiral dynamics Grumman aircraft oxynitrides chirality GS Grumman aircraft phosphorus compounds

fibers (mathematics)

DEF The velocity of a wave disturbance as

lie groups

∞ theories

group velocity

supergravity

supersymmetry

. A-6 aircraft . C-1A aircraft

. C-2 aircraft

. E-2 aircraft

. F-9 aircraft

. F-14 aircraft

. F-111 aircraft

. Jetstream aircraft

#### 406

∞ Group 5B compounds

RT ∞ chemical compounds

niobium compounds

tantalum compounds

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

. OV-1 aircraft shielding hydrofoils RT ∞ aircraft thrust vector control AWACS aircraft Guatemala GS nations quided missile submarines Grumman OV-1C aircraft Guatemala Polaris submarines USE **OV-1 aircraft** RT Central America GS water vehicles . ships Gruneisen constant guayule . . submarines A desert shrub native to southwestern GS constants ... guided missile submarines Gruneisen constant United States and north Mexico that produces . underwater vehicles compressibility polymeric isoprene essentially identical to that . . submarines specific heat made by Hevea rubber trees in southeast Asia. . . guided missile submarines thermal expansion GS plants (botany) fleet ballistic missiles guayule Poseidon missiles **GTDS** brush (botany) **Goddard Trajectory Determination** USE rubber Guinea System nations GS GUI (computers) Guinea Guadeloupe USE graphical user interface RT Africa GS landforms . islands guidance (motion) .. West Indies DEF The process of directing the moveguinea pigs animals . . Guadeloupe ments of an aeronautical vehicle or space ve-. vertebrates nations hicle, with particular reference to the selection of . . mammals . France a flight path. ... rodents .. Guadeloupe ĞS guidance (motion) . . . . guinea pigs . aircraft guidance Guam beam rider guidance GS landforms . command guidance **Gulf of Alaska** . islands entry guidance (STS) GS gulfs . . Pacific islands . inertial guidance **Gulf of Alaska** . Guam . strapdown inertial guidance RT Alaska nations injection guidance Pacific Ocean . United States . map matching guidance . . Guam . midcourse guidance Gulf of California (Mexico) . reentry guidance GS gulfs guanethidine . rendezvous guidance Gulf of California (Mexico) GS organic compounds . spacecraft quidance RT Mexico . amines . . satellite guidance Pacific Ocean . . diamines . standardized space guidance . . . guanidines terminal guidance **Gulf of Mexico** . . . . guanethidine . laser guidance gulfs GS . cyclic compounds air navigation Gulf of Mexico approach ascent trajectories . . heterocyclic compounds Alabama ... guanethidine Caribbean Sea astrionics Florida guanidines automatic control Louisiana GS organic compounds avionics Mexico . amines control surfaces Mississippi Rio Grande (North America) . . diamines flight control ... guanidines flight paths texas . . . . guanethidine ground based control . . . triaminoguanidinium azide homina **Gulf Stream** RT perfluoroguanidine homing devices GS circulation impact prediction . water circulation guanines landing . . water currents GS bases (chemical) . guanines manual control ... ocean currents missiles . Gulf Stream fungicides navigation Atlantic Ocean xanthines platforms Caribbean Sea guanines pointing control systems Lomonosov current nitrogen compounds radio navigation Sargasso Sea TOPEX remote control . xanthines . guanines stationkeeping organic compounds ∞ systems gulfs . cyclic compounds trajectory control Relatively large parts of oceans or . . heterocyclic compounds visual control seas extending far into the land, partly enclosed ... purines by an extensive sweep of the coasts, and . . . . xanthines guidance sensors opened to the sea through straits. Gulfs are the attitude control . . . . . guanines largest of various forms of inlets of seas. They RT cyclic AMP image dissector tubes are usually larger, more enclosed, and more optical measuring instruments deeply indented than bays (topographic fea-∞ sensors tures) Guanine riboside; a nucleoside comsolar sensors GŚ gulfs posed of guanine and ribose. Used for vernine. spacecraft instruments Gulf of Alaska vernine star trackers Gulf of California (Mexico)
Gulf of Mexico organic compounds carbohydrates guide vanes Persian Gulf . . glucosides Control surfaces that may be moved bays (topographic features) Delaware Bay (US) . . . nucleosides into or against a rocket's jetstream, used to change the direction of the jet flow for thrust ... guanosines RT nucleic acids vector control. Used for jetavators. inlets (topography) topography ribonucleic acids jetavators GS control surfaces guards (shields) guide vanes Gum nebula

. . jet vanes

jet vanes

vanes . guide vanes

airfoils

RT

RT ∞ barriers

coverings

housings safety devices

safety management

GS celestial bodies . nebulae

galaxies

. Gum nebula

irregular galaxies

Orion nebula plasma guns structural members gum vulcanizates Guyana guns (ordnance) USE vulcanized elastomers UF British Guinea UF cannons GS nations GS weapons Gumbel theory Guyana . guns (ordnance) USE range (extremes) Caribbean region . . artillery South America . . . howitzers gums (substances) . . . precision guided projectiles gums (substances) gymnastics . . rifles rosin USE physical exercise ammunition chitin explosives polysaccharides gynecology gun propellants rubber GS medical science gun turrets tars gynecology gunfire RT females gunnery training gun launchers genitourinary system (LIMITED TO ORDNANCE DEVICES FOR FIRING MISSILES AND ROCKETS WITH INITIAL ATTITUDE CONTROL)
Ordnance devices for firing missiles ∞ guns heat of combustion gypsum hypervelocity guns DEF The mineral consisting primarily of fully incendiary ammunition and rockets with initial attitude control. hydrated calcium sulfate (calcium sulfate dihyprojectiles drate). GS launchers propellants . gun launchers GS minerals Sabot projectiles RT artillery . gypsum plasters ∞ barrels gust alleviators gypsum gunfire calcium RT deflectors howitzers qusts chalk hypervelocity launchers mission adaptive wings rocks missile launchers spoilers sedimentary rocks rocket catapults turbulent flow sulfates rocket launchers vortex alleviation Sabot projectiles gyrals USE gun propellants gyres gust loads gunpowder aerodynamic forces GS propellants gyration . aerodynamic loads gun propellants GS gyration . gust loads . precession RT explosives loads (forces) guns (ordnance) . . Larmor precession . dynamic loads . . proton precession . . aerodvnamic loads aun turrets ... quenching (atomic physics) . . . gust loads RT ∞ cupolas . revolving . . transient loads guns (ordnance) . rotation ... gust loads ∞ turret . . autorotation . random loads . . corotation . gust loads gunfire . . counter rotation atmospheric turbulence artillery fire . . Earth rotation blast loads fire control . . galactic rotation ground wind firing (igniting) . . image rotation gusts gun launchers . . lunar rotation structural design criteria guns (ordnance) . . molecular rotation wind pressure projectiles . . muon spin rotation wing loading . . planetary rotation Gunn diodes . . satellite rotation gustatory perception GS electronic equipment . . stellar rotation USE taste . . . solar rotation . diodes . . clinorotation . . semiconductor diodes ... Gunn diodes austs . . superrotation . transferred electron devices GS turbulence RT angular velocity gallium arsenides . atmospheric turbulence coning motion negative resistance devices . gusts ∞ motion semiconductor devices wind (meteorology) spin dynamics gusts Gunn effect clear air turbulence gyrators RT ∞ effects ground wind Tellegen theory negative conductance gust alleviators GS microwave equipment negative resistance devices . gyrators aust loads semiconductor devices sea breeze . microwave filters semiconductor lasers storm damage RT ferrites microwave switching storms gunnery training storms (meteorology) network analysis GS education vortex avoidance phase shift circuits . gunnery training . waveguides artillery GUT fire control gyres USE grand unified theory guns (ordnance) Closed circulatory systems in a body of howitzers water, larger than an eddy or a whirlpool. There Gutenberg zone weapons is a circular motion of water in each of the major models ocean basins, centered on a subtropical high-Gutenberg zone aunpowder pressure region. These movements are generregions USE gun propellants ated by connective flow of warm surface water Gutenberg zone poleward, by the deflective effect of the Earth's acoustic velocity ∞ guns rotation and by the effects of prevailing winds. (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN seismic waves The water within each gyre turns clockwise in the Northern Hemisphere and counterclockwise LISTED BELOW)
crossed field guns RT guy wires in the Southern Hemisphere. Acceleration

UF

GS

RT

stavs

wire

guy wires

anchors (fasteners)

causes sea level to fall along mainland coasts;

air water interactions

deceleration leads to rise.

gyrals

UF

RT

electron guns

guns (ordnance)

hypervelocity guns

gas guns

coastal currents Coriolis effect ocean currents oceanography

#### gyro horizons

DEF Artificial horizons or attitude gyroscopes.

display devices

gyro horizons

flight instruments

. attitude indicators

. gyro horizons

gyroscopes

. attitude gyros gyro horizons

horizon

. gyro horizons measuring instruments

. indicating instruments . . attitude indicators

. . . gyro horizons

navigation aids

. navigation instruments

. . attitude indicators

. . . gyro horizons

# gyrocompasses

Compasses consisting of a continuously driven Foucault gyroscope whose supporting ring normally confines the spinning axis to a horizontal plane, so that the Earth's rotation causes the spinning axis to assume a position in a plane passing through the Earth's axis, and thus to point to true north.

gyroscopes

gyrocompasses

measuring instruments

. indicating instruments

. . compasses

... gyrocompasses

navigation aids

. navigation instruments

. . compasses

gyrocompasses

magnetic compasses radio direction finders solar compasses

### gyrodampers

Single-gimbal control moment gyros actively controlled to extract the structural vibratory energy through the local rotational deformations of a structure; used in large space struc-

control moment gyroscopes gimbals gyroscopic stability

structural vibration vibration damping

#### Gyrodyne aircraft

DEF A rotorcraft whose rotors are not engine-driven except for initial starting, but are made to rotate by action of the air when the rotorcraft is moving; and whose means of propulsion, consisting usually of conventional propellers, is independent of the rotor system.

Gyrodyne aircraft

QH-50 helicopter

RT ∞ aircraft

Gyrodyne DSN-3 helicopter USE QH-50 helicopter

Gyrodyne military aircraft

USE QH-50 helicopter

#### gyrofrequency

DEF The natural period of revolution of a free electron in the Earth's magnetic field.

GS magnetic properties

. gyromagnetism

. gyrofrequency

charged particles magnetoionics

gyrointeraction

USE magnetic rigidity

#### gyromagnetism

magnetic properties

gyromagnetism

. gyrofrequency

RT Larmor radius

gyroplanes

USE helicopters

gyros

USE gyroscopes

#### gyroscope fluids

RT damping

∞ fluids

rotary gyroscopes suspending (hanging)

#### gyroscopes

DEF Devices which utilize the angular momentum of a spinning mass (rotor) to sense angular motion of its base about one or two axes orthogonal to the spin axis. Used for gyros, gyroscopic drift, and gyrostats.

UF gyros

gyros

gyroscopic drift gyrostats

#### GS gyroscopes

. attitude gyros

. gyro horizons

control moment gyroscopes

cryogenic gyroscopes

electrostatic gyroscopes

gyrocompasses

. gyroscopic pendulums

gyrostabilizers

laser gyroscopes

. nuclear gyroscopes

. optical gyroscopes

rotary gyroscopes
. fluid rotor gyroscopes

tuning fork gyroscopes

automatic pilots

gimballess inertial navigation

gimbals

Gravity Probe B

gyroscopic stability

precession ∞ stabilizers

torquers

# gyroscopic coupling

coupling

. gyroscopic coupling

RT navigation

gyroscopic drift

USE gyroscopes gyroscopic stability

#### gyroscopic pendulums

pendulous gyroscopes

gyroscopes gyroscopic pendulums

oscillators . mechanical oscillators

. . pendulums

... gyroscopic pendulums

accelerometers damping Schuler tuning

#### gyroscopic stability

gyroscopic drift dynamic characteristics

dynamic characteristics
dynamic stability
motion stability
directional stability
directional stability

. . . . . gyroscopic stability

. . . rotary stability . . . . gyroscopic stability

stability

. dynamic stability

. . motion stability

. . . attitude stability

. . . directional stability

..... gyroscopic stability . . . rotary stability

. . . gyroscopic stability

damping gyrodampers gyroscopes hovering stability inertial platforms precession

rotary gyroscopes Schuler tuning sea keeping stabilized platforms

stable oscillations yo-yo devices

# gyrostabilizers

GS gyroscopes

gyrostabilizers

navigation aids sea keeping

stabilized platforms thrust vector control

gyrostats

USE gyroscopes

gyrotrons

cyclotron resonance devices

# gyrotropism

GS tropism

gyrotropism

electromagnetic properties

frequency shift

| H alpha      | line   | oscillations   | V/STOL aircraft   |
|--------------|--|--|---|
| GS           | spectra  | . transverse oscillation   | . rotary wing aircraft  |
|              | . radiation spectra  | H waves  | helicopters   |
|              | electromagnetic spectra  | transverse waves   | military helicopters  |
|              | line spectra   | . H waves  | H-43 helicopter   |
|              | H lines  | RT electric field strength   | RT ∞ aircraft   |
|              | H alpha line   | · · · · · · · · · · · · · · · · · · ·  |   |
| RT           | absorption spectra   | H-1 engine   | H-51 helicopter   |
|              | emission spectra   | GS engines   | USE XH-51 helicopter  |
|              | H II regions   | rocket engines   | 302 741 01 Honospie.  |
|              | solar spectra  | booster rocket engines   | H-53 helicopter   |
|              | Solal Specifia   | H-1 engine   | UF CH-53 helicopter   |
| H beta l     | line   | liquid propellant rocket engines   | HHX helicopter  |
| GS           | spectra  | H-1 engine   | Sikorsky S-65 helicopter  |
| 00           | . radiation spectra  | RT Saturn 1 launch vehicles  | GS passenger aircraft   |
|              | electromagnetic spectra  | Saturn 1B launch vehicles  | . H-53 helicopter   |
|              |  | Saturn 16 laurion veriloles  | Sikorsky aircraft   |
|              | line spectra   | H-2 control  | . H-53 helicopter   |
|              | H lines  |  |   |
| DT           | H beta line  | (added February 1998)  | transport aircraft  |
| RT           | absorption spectra   | GS automatic control   | . H-53 helicopter   |
|              | Balmer series  | . optimal control  | V/STOL aircraft   |
|              | emission spectra   | . H-2 control  | . rotary wing aircraft  |
|              | solar spectra  | optimization   | . helicopters   |
|              |  | optimal control  | military helicopters  |
| H gamn       |  | H-2 control  | H-53 helicopter   |
| GS           | spectra  | RT control systems design  | RT ∞ aircraft   |
|              | . radiation spectra  | control theory   |   |
|              | electromagnetic spectra  | controllers  | H-54 helicopter   |
|              | line spectra   | feedback control   | GS V/STOL aircraft  |
|              | H lines  | H-infinity control   | . rotary wing aircraft  |
|              | H gamma line   | linear quadratic Gaussian control  | helicopters   |
| RT           | absorption spectra   |  | military helicopters  |
|              | Balmer series  | H-2 orbiting plane   | H-54 helicopter   |
|              | emission spectra   | USE HOPE aerospace plane   | RT ∞ aircraft   |
|              | solar spectra  |  |   |
|              | •  | H-13 helicopter  | H-56 helicopter   |
| H I regi     | ons  | USE OH-13 helicopter   | GS passenger aircraft   |
| _            | celestial bodies   | ·  | H-56 helicopter   |
|              | . nebulae  | H-17 helicopter  | Sikorsky aircraft   |
|              | H I regions  | UF Flying Crane helicopter   | . H-56 helicopter   |
|              | hydrogen clouds  | GS Hughes aircraft   | transport aircraft  |
|              | . H I regions  | . H-17 helicopter  | . H-56 helicopter   |
| RT ∝         | clouds   | jet aircraft   | V/STOL aircraft   |
| 101          | hydrogen atoms   | . H-17 helicopter  | . rotary wing aircraft  |
|              | interstellar gas   | research vehicles  | helicopters   |
|              | interstellar matter  | . research aircraft  | military helicopters  |
|              |  | H-17 helicopter  | H-56 helicopter   |
|              | neutral gases  | V/STOL aircraft  | RT ∞ aircraft   |
|              | neutral gases  | . rotary wing aircraft   | KT ∞ all claft  |
|              | radio spectra  | helicopters  | H-60 Helicopter   |
| III II aa ad | ·  | H-17 helicopter  | •   |
| H II regi    |  | RT ∞ aircraft  | DEF The Black Hawk (Sikorsky) assault he-   |
| GS           | celestial bodies   | RT ∞ aliciali  | licopter. Used for Black Hawk assault helicopter.   |
|              | . nebulae  | H 10 holiooptor  | UF Black Hawk assault helicopter  |
|              | H II regions   | H-19 helicopter  | Jayhawk helicopter  |
|              | hydrogen clouds  | GS passenger aircraft  | GS Sikorsky aircraft  |
|              | . H II regions   | H-19 helicopter  | . H-60 Helicopter   |
| RT ∝         | clouds   | Sikorsky aircraft  | V/STOL aircraft   |
|              | emission spectra   | H-19 helicopter  | . rotary wing aircraft  |
|              | H alpha line   | transport aircraft   | helicopters   |
|              | hydrogen ions  | . H-19 helicopter  | military helicopters  |
|              | interstellar gas   | V/STOL aircraft  | H-60 Helicopter   |
|              | interstellar matter  | . rotary wing aircraft   | RT ∞ aircraft   |
|              | ionized gases  | helicopters  | ∞ military aircraft   |
|              |  | military helicopters   |   |
| H lines      |  | H-19 helicopter  | H-126 aircraft  |
| SN           | (EXCLUDES SURFACES OF CONSTANT   | RT ∞ aircraft  | UF Hunting H-126 aircraft   |
|              |  |  |   |
|              | MAGNETIC FIELD STRENGTH)   |  | GS BAC aircraft   |
| GS           | MAGNETIC FIELD STRENGTH) spectra   | H-21 helicopter  |   |
| GS           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra   | H-21 helicopter<br>USE <b>CH-21 helicopter</b>   | GS BAC aircraft   |
| GS           | MAGNETIC FIELD STRENGTH) spectra radiation spectra . electromagnetic spectra   | '  | GS BAC aircraft<br>. <b>H-126 aircraft</b>  |
| GS           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra   | '  | GS BAC aircraft . <b>H-126 aircraft</b> jet aircraft  |
| GS           | MAGNETIC FIELD STRENGTH) spectra radiation spectra . electromagnetic spectra   | USE CH-21 helicopter   | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes   |
| GS           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra line spectra  | USE <b>CH-21 helicopter</b> H-23 helicopter  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft  |
| GS           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra line spectra H lines  | USE <b>CH-21 helicopter</b> H-23 helicopter  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft  |
| GS           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line   | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft  |
| GS<br>RT     | MAGNETIC FIELD STRENGTH) spectra radiation spectra electromagnetic spectra iline spectra H lines H alpha line H beta line  | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter   | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles  |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H beta line H gamma line  | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft   | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft   |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H beta line H gamma line absorption spectra   | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft  |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series   | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft   | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft RT ∞ aircraft jet flaps   |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra . H lines . H alpha line . H beta line . H gamma line absorption spectra Balmer series D lines emission spectra  | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps habitability   |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H gamma line absorption spectra Balmer series D lines emission spectra K lines  | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology  |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H beta line H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra  | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  H-25 helicopter   | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft research aircraft . H-126 aircraft get flaps  habitability RT ecology environmental control   |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra . H lines . H alpha line . H beta line . H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series   | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  | GS BAC aircraft . H-126 aircraft jet aircraft jet aircraft M-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft  RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments   |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra . H lines . H spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  H-25 helicopter  RT antisubmarine warfare aircraft  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft research aircraft . H-126 aircraft get flaps  habitability RT ecology environmental control   |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series solar spectra  | USE CH-21 helicopter  USE OH-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  H-25 helicopter  RT antisubmarine warfare aircraft  H-34 helicopter                  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments shelters  |
|              | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra . H lines . H spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  H-25 helicopter  RT antisubmarine warfare aircraft  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments shelters  |
| RT           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series solar spectra telluric lines   | USE CH-21 helicopter  H-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  . H-25 helicopter  V/STOL aircraft  . rotary wing aircraft  . helicopters  tandem rotor helicopters  H-25 helicopter  RT antisubmarine warfare aircraft  H-34 helicopter  USE CH-34 helicopter | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments shelters  habitats SN (LIMITED TO PLANTS AND ANIMALS)   |
| RT<br>H wave | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra . H lines . H dapha line . H beta line . H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series solar spectra telluric lines                             | USE CH-21 helicopter  USE OH-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  | GS BAC aircraft  . H-126 aircraft  jet aircraft  . H-126 aircraft  monoplanes  . H-126 aircraft research vehicles  . research aircraft  . H-126 aircraft  research aircraft  RT ∞ aircraft jet flaps  habitability  RT ecology environmental control environments shelters  habitats  SN (LIMITED TO PLANTS AND ANIMALS) DEF The areas or types of environment in |
| RT           | MAGNETIC FIELD STRENGTH) spectra . radiation spectra . electromagnetic spectra . line spectra H lines H alpha line H gamma line absorption spectra Balmer series D lines emission spectra K lines Lyman spectra Paschen series Rydberg series solar spectra telluric lines   | USE CH-21 helicopter  USE OH-23 helicopter  USE OH-23 helicopter  H-25 helicopter  GS Boeing aircraft  | GS BAC aircraft . H-126 aircraft jet aircraft . H-126 aircraft monoplanes . H-126 aircraft research vehicles . research aircraft . H-126 aircraft RT ∞ aircraft jet flaps  habitability RT ecology environmental control environments shelters  habitats SN (LIMITED TO PLANTS AND ANIMALS)   |

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|  | 1 -124-4   |  | 6.11. 21.   | 00        |  |
|--|--|--|---|-----------|--|
|  | habitats   |  | metal halides   | GS        | languages  |
| RT   | animals  |  | hafnium iodides   |           | . programming languages  |
| 000  | biology  |  | . iodine compounds  |           | HAL/S (language)   |
|  | botany   |  | iodides   | RT        | computer programming   |
|  | conservation   |  | hafnium iodides   |           | computers  |
|  |  |  | Haimum louides  |           | Computers  |
|  | Earth resources  | la metalia.                                |   | Halden    | Dailing Water Baseton  |
|  | ecology  |  | m isotopes  |           | Boiling Water Reactor  |
|  | endangered species   | GS   |   | UF        | Halden reactor   |
|  | environment effects  |  | . hafnium   |           | HBWR reactor   |
|  | environments   |  | hafnium isotopes  | GS        | nuclear reactors   |
|  | wildlife   |  | . nuclides  |           | . liquid cooled reactors   |
|  | Wilding  |  | isotopes  |           | water cooled reactors  |
| l l- !4-   |  |  |   |           |  |
| habits   |  |  | hafnium isotopes  |           | boiling water reactors   |
| RT   | learning   |  | metals  |           | Halden Boiling Water Reactor   |
|  | psychological factors  |  | . transition metals   |           |  |
|  |  |  | hafnium   | Halden    | reactor  |
| habituat   | tion (learning)  |  | hafnium isotopes  | USE       | Halden Boiling Water Reactor   |
|  | learning   |  | · · · · · · · · · · · · · · · · · · ·   |           | <b>3</b>   |
| 00   | . habituation (learning)   | hafniu                                     | m oxides  | Halo-R    | opp comet  |
| DT   |  |  |   |           | ed July 1998)  |
| RT   | conditioning (learning)  | GS   | chalcogenides   |           |  |
|  |  |  | . oxides  |           | Long-period comet discovered July 23,  |
| hadrons  | 3  |  | metal oxides  | 1995; d   | esignated C/1995 O1.   |
| GS   | particles  |  | hafnium oxides  | GS        | celestial bodies   |
|  | . elementary particles   |  | hafnium compounds   |           | . comets   |
|  | hadrons  |  | . hafnium oxides  |           | Hale-Bopp comet  |
|  | baryons  |  | . Harriam Oxidoo  | RT        | Oort cloud   |
|  |  | hahmi.                                     |   | 17.1      | Cort cloud   |
|  | hyperons   | hahniu                                     |   | 111       |  |
|  | xi hyperons  |  | ded November 1994)  | half co   |  |
|  | omega-mesons   | GS   | chemical elements   | GS        | cones  |
|  | rho-mesons   |  | . hahnium   |           | . half cones   |
|  | sigma-mesons   | RT   | ∞ elements  | RT        | aerodynamic configurations   |
|  | mesons   |  |   |           | circular cones   |
|  |  | hail                                       |   |           |  |
|  | eta-mesons   |  | D 120 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |           | conics   |
|  | hyperons   | DEF  | Precipitation in the form of spheroidal   |           | nose cones   |
|  | xi hyperons  |  | l ice pellets that usually fall from cumu-  |           |  |
|  | kaons  | lonimb                                     | us clouds during thunderstorms. The lay-  | half life | •  |
|  | meson resonance  | ered st                                    | ructure of hail is produced by successive   | DEF       | The average time required for one half   |
|  | X mesons   |  | ans of clear and frothy ice.  | the ator  | ns in a sample of radioactive element to   |
|  |  | UF   | hailstones  | decay.    |  |
|  | muons  |  |   | GS.       | life (durability)  |
|  | omega-mesons   | GS   | precipitation (meteorology)   | 03        |  |
|  | pions  |  | . hail  |           | . half life  |
|  | vector mesons  | RT   | cloud glaciation  | RT        | decay  |
|  | rho-mesons   |  | graupel   |           | nuclear reactions  |
|  | sigma-mesons   |  | hailstorms  |           | post-blast nuclear radiation   |
| RT   | charm (particle physics)   |  | ice formation   |           | radiative lifetime   |
| 1 ( )  |  |  |   |           | radioactive age determination  |
|  | flavor (particle physics)  |  | storms (meteorology)  |           |  |
|  | particle decay   |  | thunderstorms   |           | radioactive decay  |
|  | partons  |  |   |           | radioactivity  |
|  | quark parton model   | hailsto                                    | nes   |           | reaction kinetics  |
|  | vector dominance model   | USE  | hail  |           |  |
|  | roctor dominanto modo.   |  |   | half pla  | nes  |
| hafnium  | •  | hailsto                                    | rms   | GS        | analysis (mathematics)   |
|  |  | GS   |   | 00        |  |
| GS   | chemical elements  | GS   | storms  | DT        | . half planes  |
|  | . hafnium  |  | . storms (meteorology)  | RT        | boundary value problems  |
|  | hafnium isotopes   |  | hailstorms  |           | coordinates  |
|  | metals   | RT   | climatology   |           | differential equations   |
|  | . transition metals  |  | graupel   |           | Green's functions  |
|  | hafnium  |  | hail  |           |  |
|  | hafnium isotopes   |  | meteorology   | half sp   | aces   |
|  | Hairiidiii isotopes  |  | precipitation (meteorology)   | GS        | analysis (mathematics)   |
| h afer !   | alleve   |  |   | GS        |  |
| hafnium  |  |  | rainstorms  |           | . half spaces  |
| GS   |  |  |   |           | harmadami vali:  |
|  | alloys   |  | storm damage  | RT        | boundary value problems  |
|  | . hafnium alloys   |  | storm enhancement   | RT        | coordinates  |
| RT   |  |  |   | RT        |  |
| RT   | . hafnium alloys<br>heat resistant alloys  |  | storm enhancement   | RT        | coordinates  |
| RT   | . hafnium alloys<br>heat resistant alloys<br>niobium alloys  |  | storm enhancement storm suppression   | RT        | coordinates<br>elliptic differential equations   |
| RT   | . hafnium alloys<br>heat resistant alloys<br>niobium alloys<br>tantalum alloys   | hair                                       | storm enhancement storm suppression   | RT        | coordinates<br>elliptic differential equations<br>fractals   |
| RT   | . hafnium alloys<br>heat resistant alloys<br>niobium alloys<br>tantalum alloys<br>tungsten alloys  | hair<br>GS                                 | storm enhancement<br>storm suppression<br>thunderstorms   |           | coordinates<br>elliptic differential equations<br>fractals<br>Green's functions  |
| RT   | . hafnium alloys<br>heat resistant alloys<br>niobium alloys<br>tantalum alloys   | <b>hair</b><br>GS                          | storm enhancement<br>storm suppression<br>thunderstorms   | halides   | coordinates<br>elliptic differential equations<br>fractals<br>Green's functions  |
|  | . hafnium alloys<br>heat resistant alloys<br>niobium alloys<br>tantalum alloys<br>tungsten alloys<br>zirconium alloys  | GS   | storm enhancement<br>storm suppression<br>thunderstorms<br>fibers<br>. hair   |           | coordinates elliptic differential equations fractals Green's functions halogen compounds   |
|  | . hafnium alloys<br>heat resistant alloys<br>niobium alloys<br>tantalum alloys<br>tungsten alloys  |  | storm enhancement<br>storm suppression<br>thunderstorms   | halides   | coordinates<br>elliptic differential equations<br>fractals<br>Green's functions  |
|  | . hafnium alloys<br>heat resistant alloys<br>niobium alloys<br>tantalum alloys<br>tungsten alloys<br>zirconium alloys  | GS   | storm enhancement<br>storm suppression<br>thunderstorms<br>fibers<br>. hair   | halides   | coordinates elliptic differential equations fractals Green's functions halogen compounds   |
| hafnium  | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys a carbides carbon compounds   | GS   | storm enhancement<br>storm suppression<br>thunderstorms  fibers . hair<br>keratins<br>skin (anatomy)  | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides bromides   |
| hafnium  | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys a carbides carbon compounds . carbides  | GS   | storm enhancement<br>storm suppression<br>thunderstorms<br>fibers<br>. hair<br>keratins   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides bromides ammonium bromides   |
| hafnium  | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys a carbides carbon compounds . carbides hafnium carbides   | GS   | storm enhancement<br>storm suppression<br>thunderstorms  fibers . hair keratins skin (anatomy) wool   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides   |
| hafnium  | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys zirconium alloys  carbides carbon compounds . carbides . hafnium carbides hafnium compounds   | GS<br>RT<br>hairpin                        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides   |
| hafnium  | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys a carbides carbon compounds . carbides hafnium carbides   | GS   | storm enhancement<br>storm suppression<br>thunderstorms  fibers . hair keratins skin (anatomy) wool   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . dibromides   |
| <b>hafnium</b><br>GS   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides   | GS<br>RT<br>hairpin<br>USE                 | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid   |
| <b>hafnium</b><br>GS   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides   | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . cesium bromides . cesium bromides . dibromides . dibromides . hydrobromic acid . hydrobromides  |
| <b>hafnium</b><br>GS   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides   | GS<br>RT<br>hairpin<br>USE                 | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid   |
| hafnium<br>GS<br>hafnium   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides   | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . cesium bromides . cesium bromides . dibromides . dibromides . hydrobromic acid . hydrobromides  |
| hafnium<br>GS<br>hafnium   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys zirconium alloys  a carbides carbon compounds . carbides hafnium carbides hafnium compounds . hafnium carbides  a compounds hafnium compounds . hafnium carbides  | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid . hydrobromides . magnesium bromides . potassium bromides   |
| hafnium<br>GS<br>hafnium   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium carbides . hafnium carbides . hafnium carbides . hafnium carbides   | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides bromides cesium bromides chromium bromides hydrobromic acid hydrobromides magnesium bromides potassium bromides silver bromides  |
| hafnium<br>GS<br>Mafnium<br>GS   | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides  a compounds hafnium compounds . hafnium carbides hafnium carbides  b compounds hafnium carbides . hafnium compounds . hafnium carbides . hafnium oxides . hafnium oxides   | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides bromides cesium bromides chromium bromides dibromides hydrobromic acid hydrobromides magnesium bromides potassium bromides silver bromides sodium bromides   |
| <b>hafnium</b><br>GS<br><b>hafnium</b><br>GS                               | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium compounds . hafnium compounds . hafnium compounds . hafnium coddes . hafnium oxides . chemical compounds  | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid . hydrobromides . magnesium bromides . gotassium bromides . silver bromides . sodium bromides . sodium bromides . sodium bromides . strontium bromides  |
| hafnium<br>GS<br>hafnium<br>GS<br>RT ∝                                     | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium carbides hafnium carbides compounds hafnium compounds . hafnium carbides hafnium compounds . compounds . compounds  | RT  hairpin USE  Haiti GS                  | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . hydrobromic acid . hydrobromic acid . hydrobromides . magnesium bromides . potassium bromides . silver bromides . sodium bromides . strontium bromides . chlorides  |
| hafnium<br>GS<br>hafnium<br>GS<br>RT ∝                                     | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium compounds . hafnium compounds . hafnium compounds . hafnium coddes . hafnium oxides . chemical compounds  | GS<br>RT<br>hairpin<br>USE<br>Haiti        | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid . hydrobromic acid . hydrobromides . magnesium bromides . silver bromides . silver bromides . sodium bromides . sodium bromides . strontium bromides  |
| hafnium<br>GS<br>hafnium<br>GS<br>RT ∝                                     | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium carbides hafnium carbides compounds hafnium compounds . hafnium carbides hafnium compounds . compounds . compounds  | RT  hairpin USE  Haiti GS                  | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti   | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . hydrobromic acid . hydrobromic acid . hydrobromides . magnesium bromides . potassium bromides . silver bromides . sodium bromides . strontium bromides . chlorides  |
| hafnium<br>GS<br>hafnium<br>GS<br>RT &                                     | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium carbides  a compounds hafnium compounds . hafnium carbides . hafnium compounds . compounds . hafnium carbides | RT  hairpin USE  Haiti GS                  | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti Caribbean region  | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides hormides cesium bromides chromium bromides hydrobromic acid hydrobromides magnesium bromides silver bromides silver bromides strontium bromides aluminum chlorides ammonium chlorides ammonium chlorides areas   |
| hafnium<br>GS<br>hafnium<br>GS<br>RT & & & & & & & & & & & & & & & & & & & | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium carbides  a compounds hafnium compounds . hafnium carbides . hafnium codides . hafnium carbides . compounds . hafnium carbides . hafnium compounds . co | RT  hairpin USE  Haiti GS                  | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti Caribbean region Caribbean Sea  | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides bromides cesium bromides chromium bromides dibromides hydrobromic acid hydrobromides magnesium bromides silver bromides strontium bromides aluminum chlorides aluminum chlorides ammonium chlorides beryllium chlorides  |
| hafnium<br>GS<br>hafnium<br>GS<br>RT & & & & & & & & & & & & & & & & & & & | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium carbides compounds hafnium compounds . hafnium cidides . hafnium cidides . hafnium oxides chemical compounds  | A RT hairpin USE Haiti GS                  | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti Caribbean region Caribbean Sea  (language)  | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid . hydrobromic acid . hydrobromides . magnesium bromides . silver bromides . silver bromides . sodium bromides . sotium bromides . strontium bromides . aluminum chlorides . aluminum chlorides . beryllium chlorides . boron chlorides  |
| hafnium<br>GS<br>hafnium<br>GS<br>RT & & & & & & & & & & & & & & & & & & & | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbides carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium oxides . hafnium oxides . hafnium oxides . hafnium compounds . hafnium compounds . I iodides . hafnium compounds . hafnium iodides  | A RT  Aairpin USE  Haiti GS  RT  HAL/S DEF | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti Caribbean region Caribbean Sea  (language) Programming language developed for                                       | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds halides bromides cesium bromides chromium bromides dibromides hydrobromic acid hydrobromides magnesium bromides silver bromides silver bromides ation strontium bromides chordides chordides chordides chordides chordides chordides chordides chordes chordes chordes chordes chordes chordes chordides chordes chordides |
| hafnium<br>GS<br>hafnium<br>GS<br>RT & & & & & & & & & & & & & & & & & & & | . hafnium alloys heat resistant alloys niobium alloys tantalum alloys tungsten alloys zirconium alloys  a carbides carbon compounds . carbides . hafnium carbides hafnium compounds . hafnium carbides hafnium compounds . hafnium carbides compounds hafnium compounds . hafnium cidides . hafnium cidides . hafnium oxides chemical compounds  | A RT  Aairpin USE  Haiti GS  RT  HAL/S DEF | storm enhancement storm suppression thunderstorms  fibers . hair keratins skin (anatomy) wool  vortices horseshoe vortices  landforms . islands West Indies Haiti nations . Haiti Caribbean region Caribbean Sea  (language) Programming language developed for ht software of the NASA Space Shuttle | halides   | coordinates elliptic differential equations fractals Green's functions  halogen compounds . halides . bromides . ammonium bromides . cesium bromides . chromium bromides . dibromides . hydrobromic acid . hydrobromic acid . hydrobromides . magnesium bromides . silver bromides . silver bromides . sodium bromides . sotium bromides . strontium bromides . aluminum chlorides . aluminum chlorides . beryllium chlorides . boron chlorides  |

| connor obloridos  | lanthanum ahlaridas  | transport proportion  |
|---|--|---|
| copper chlorides  | lanthanum chlorides  | transport properties  |
| dichlorides   | lead chlorides   | Hall ganarators   |
| germanium chlorides   | lithium chlorides  | Hall generators   |
| hydrochlorides  | magnesium bromides   | DEF Hall plates, together with leads, and   |
| hydrogen chlorides  | metal fluorides  | where used, encapsulation and ferrous or non-   |
| hydrochloric acid   | aluminum fluorides   | ferrous backing plates.   |
| iron chlorides  | beryllium fluorides  | RT circulators (phase shift circuits)   |
| lanthanum chlorides   | cadmium fluorides  | Faraday effect  |
| lead chlorides  | calcium fluorides  | ∞ generators  |
| lithium chlorides   | fluorspar  | plasma generators   |
|   | cesium fluorides   | signal generators   |
| magnesium chlorides   | chromium fluorides   |   |
| nitrosyl chlorides  | cobalt fluorides   | Hall resistance   |
| nitroxychlorides  | copper fluorides   | (added July 2000)   |
| nitryl chlorides  | lanthanum fluorides  | DEF For a current-carrying conductor within   |
| phosgene  | lithium fluorides  | a magnetic field, the ratio of the transverse   |
| potassium chlorides   | magnesium fluorides  | voltage induced by the Hall effect, to the con-   |
| silicon tetrachloride   | nickel fluorides   | ductor current.   |
| silver chlorides  | plutonium fluorides  | GS electrical properties  |
| sodium chlorides  | protactinium fluorides   | . electrical impedance  |
| sulfur chlorides  | sodium fluorides   | electrical resistance   |
| tetrachlorides  |  | Hall resistance   |
| titanium chlorides  | strontium fluorides  | impedance   |
| tungsten chlorides  | thorium fluorides  | ·   |
| zinc chlorides  | tungsten fluorides   | . electrical impedance  |
| fluorides   | uranium fluorides  | electrical resistance   |
| antimony fluorides  | zinc fluorides   | Hall resistance   |
| barium fluorides  | zirconium fluorides  | RT electrical resistivity   |
|   | niobium iodides  | Hall effect   |
| boron fluorides   | potassium bromides   | magnetoresistivity  |
| chlorine fluorides  | potassium chlorides  | quantum Hall effect   |
| compound A  | silver halides   | ∞ resistance  |
| cryolite  | silver bromides  | transport properties  |
| deuterium fluorides   | silver chlorides   |   |
| difluorides   | silver iodides   | Hall thrusters  |
| calcium fluorides   | strontium bromides   | (added June 2000)   |
| fluorspar   | technetium fluorides   | DEF Gridless ion engines that produce   |
| hydrofluoric acid   | titanium chlorides   | thrust by electrostatically accelerating plasma   |
| metal fluorides   | tungsten halides   | ions out of an annular discharge chamber.   |
| aluminum fluorides  |  | GS engines  |
| beryllium fluorides   | tungsten chlorides   | . rocket engines  |
| cadmium fluorides   | tungsten fluorides   | electric rocket engines   |
| calcium fluorides   | zinc chlorides   | electrostatic engines   |
| fluorspar   | zirconium iodides  | •   |
| cesium fluorides  | oxyhalides   | ion engines   |
| chromium fluorides  | RT halogens  | Hall thrusters  |
|   | molten salts   | RT electric propulsion  |
| cobalt fluorides  | nitrosyls  | Hall accelerators   |
| copper fluorides  | ·  | plasma engines  |
| lanthanum fluorides   | halites  | spacecraft propulsion   |
| lithium fluorides   | UF rock salt   |   |
| magnesium fluorides   |  | Hallam Nuclear Power Facility   |
| nickel fluorides  |  | UF HNPF (Hallam Nuclear Power   |
| plutonium fluorides   | ∞ salts  | Facility)   |
| protactinium fluorides  |  | GS electric power plants  |
| sodium fluorides  | Hall accelerators  | nuclear power plants  |
| strontium fluorides   | RT ∞ accelerators  | Hallam Nuclear Power Facility   |
| thorium fluorides   | alpha plasma devices   | nuclear electric power generation   |
| tungsten fluorides  | Hall thrusters   | . nuclear power plants  |
| uranium fluorides   | magnetohydrodynamics   | Hallam Nuclear Power Facility   |
| zinc fluorides  | plasma physics   | RT ∞ power plants   |
| zirconium fluorides   | . , ,  | sodium graphite reactors  |
| nitrogen fluorides  | 11-11 #:-!   | Socialii grapilite reactors   |
| nitryl fluorides  | Hall coefficient   | Halley's comet  |
| oxyfluorides  | USE Hall effect  | DEF A member of the solar system with an  |
| oxygen fluorides  |  | orbit and a period of about 76 years. It appeared   |
| ozone fluoride  | Hall currents  |   |
| perchloryl fluorides  | USE electric current   | in 1985-1986.<br>GS celestial bodies  |
| perchioryr huorides   | Hall effect  |   |
|   |  | . comets  |
| sulfur fluorides  | Hall affact  | . Halley's comet  |
| sulfur hexafluoride   | Hall effect  | RT Giotto mission   |
| technetium fluorides  | DEF The electrical polarization of a horizon-  | solar system  |
| metal halides   | tal conducting sheet of limited extent, when that  | Vega project  |
| alkali halides  | sheet moves laterally through a magnetic field   |   |
|   | having a component vertical to the sheet. The  | hallucinations  |
| cesium halides  |  |   |
| cesium bromides   | Hall effect is important in determining the behav-   | GS psychological effects  |
|   | Hall effect is important in determining the behavior of the electrical currents generated by winds   | . illusions   |
| cesium bromides cesium fluorides cesium iodides   | Hall effect is important in determining the behav-   |   |
| cesium bromides   | Hall effect is important in determining the behavior of the electrical currents generated by winds   | . illusions   |
| cesium bromides cesium fluorides cesium iodides   | Hall effect is important in determining the behav-<br>ior of the electrical currents generated by winds<br>in the lower atmosphere. Used for Hall coeffi-  | illusions<br><b>hallucinations</b>  |
| cesium bromides cesium fluorides cesium iodides potassium iodides   | Hall effect is important in determining the behav-<br>ior of the electrical currents generated by winds<br>in the lower atmosphere. Used for Hall coeffi-<br>cient and Hall currents.  | illusions<br><b>hallucinations</b>  |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  | . illusions hallucinations RT signs and symptoms  |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium bromides sodium chlorides sodium fluorides   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects  | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites   |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides sodium fluorides  | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects . Hall effect  | . illusions hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations  |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides sodium iodides aluminum chlorides   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects  . Hall effect  . quantum Hall effect  | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station   |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides sodium iodides sodium iodides aluminum chlorides barium fluorides   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects . Hall effect . quantum Hall effect RT carrier mobility  | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations  |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides sodium iodides aluminum chlorides barium fluorides  | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects . Hall effect quantum Hall effect  RT carrier mobility ∞ effects   | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations . space stations   |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium bromides sodium chlorides sodium fluorides aluminum chlorides barium fluorides beryllium chlorides cadmium chlorides                   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects . Hall effect quantum Hall effect  RT carrier mobility ∞ effects Hall resistance   | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations . space stations . space stations . Halo Orbit space station                     |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides sodium fluorides sodium iodides barium fluorides beryllium chlorides cadmium chlorides cadmium chlorides    | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects . Hall effect quantum Hall effect  RT carrier mobility ∞ effects Hall resistance magnetohydrodynamics                              | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations . space stations   |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides aluminum chlorides barium fluorides beryllium chlorides cadmium chlorides                                   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects  . Hall effect  . quantum Hall effect  RT carrier mobility  ∞ effects  Hall resistance  magnetohydrodynamics  mobility             | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations . space stations . space stations . Halo Orbit space station RT lunar spacecraft |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides sodium iodides aluminum chlorides barium fluorides beryllium chlorides cadmium chlorides cradmium chlorides | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects . Hall effect . quantum Hall effect  RT carrier mobility ∞ effects Hall resistance magnetohydrodynamics mobility Pedersen currents | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations . space stations . Halo Orbit space station RT lunar spacecraft                  |
| cesium bromides cesium fluorides cesium iodides potassium iodides sodium bromides sodium chlorides sodium fluorides aluminum chlorides barium fluorides beryllium chlorides cadmium chlorides                                   | Hall effect is important in determining the behavior of the electrical currents generated by winds in the lower atmosphere. Used for Hall coefficient and Hall currents.  UF Hall coefficient Hall currents  GS galvanomagnetic effects  . Hall effect  . quantum Hall effect  RT carrier mobility  ∞ effects  Hall resistance  magnetohydrodynamics  mobility             | illusions . hallucinations RT signs and symptoms  Halo Orbit space station GS artificial satellites . space stations . Halo Orbit space station stations . space stations . space stations . Halo Orbit space station RT lunar spacecraft |

| GS      | carbon compounds  | potassium perchlorates     | ammonium chlorides     |
|---------|---|----------------------------|------------------------|
| 00      | . halocarbons   | trichloroethylene          | beryllium chlorides    |
|         | chlorocarbons   | •                          | •                      |
|         | chlorofluorocarbons   | . fluorine compounds       | boron chlorides        |
|         | fluorocarbons   | fluorides                  | cadmium chlorides      |
|         | halon   | antimony fluorides         | calcium chlorides      |
|         |   | barium fluorides           | carbon tetrachloride   |
|         | halogen compounds<br>. halocarbons  | boron fluorides            | copper chlorides       |
|         |   | chlorine fluorides         | dichlorides            |
|         | chlorocarbons   | compound A                 | germanium chlorides    |
|         | chlorofluorocarbons   | cryolite                   | hydrochlorides         |
|         | fluorocarbons   | deuterium fluorides        | hydrogen chlorides     |
|         | halon   | difluorides                | hydrochloric acid      |
| RT      | bromine compounds   | calcium fluorides          | iron chlorides         |
| ~       | chemical compounds  |                            |                        |
|         | chlorine compounds  | fluorspar                  | lanthanum chlorides    |
|         | fluorine compounds  | hydrofluoric acid          | lead chlorides         |
|         | fluoro compounds  | metal fluorides            | lithium chlorides      |
|         | iodine compounds  | aluminum fluorides         | magnesium chlorides    |
|         |   | beryllium fluorides        | nitrosyl chlorides     |
|         |   | cadmium fluorides          | nitroxychlorides       |
| HALOE   |   | calcium fluorides          | nitryl chlorides       |
| USE     | Halogen Occultation Experiment  | fluorspar                  | phosgene               |
|         |   | cesium fluorides           | potassium chlorides    |
| haloger | compounds   | chromium fluorides         | silicon tetrachloride  |
| UF      | Group 7A compounds  | cobalt fluorides           | silver chlorides       |
| GS.     | halogen compounds   | copper fluorides           | sodium chlorides       |
| 00      | · .   | lanthanum fluorides        | sulfur chlorides       |
|         | . bromine compounds bromates  |                            | tetrachlorides         |
|         |   | lithium fluorides          |                        |
|         | bromides  | magnesium fluorides        | titanium chlorides     |
|         | ammonium bromides   | nickel fluorides           | tungsten chlorides     |
|         | cesium bromides   | plutonium fluorides        | zinc chlorides         |
|         | chromium bromides   | protactinium fluorides     | fluorides              |
|         | dibromides  | sodium fluorides           | antimony fluorides     |
|         | hydrobromic acid  | strontium fluorides        | barium fluorides       |
|         | hydrobromides   | thorium fluorides          | boron fluorides        |
|         | magnesium bromides  | tungsten fluorides         | chlorine fluorides     |
|         | potassium bromides  | uranium fluorides          | compound A             |
|         | silver bromides   | zinc fluorides             | cryolite               |
|         | sodium bromides   | ziric lidolides            | deuterium fluorides    |
|         |   |                            |                        |
|         | strontium bromides  | nitrogen fluorides         | difluorides            |
|         | halon   | nitryl fluorides           | calcium fluorides      |
|         | . chlorine compounds  | oxyfluorides               | fluorspar              |
|         | chlorates   | oxygen fluorides           | hydrofluoric acid      |
|         | chlorides   | ozone fluoride             | metal fluorides        |
|         | aluminum chlorides  | perchloryl fluorides       | aluminum fluorides     |
|         | ammonium chlorides  | polyvinyl fluoride         | beryllium fluorides    |
|         | beryllium chlorides   | sulfur fluorides           | cadmium fluorides      |
|         | boron chlorides   | sulfur hexafluoride        | calcium fluorides      |
|         | cadmium chlorides   | technetium fluorides       | fluorspar              |
|         | calcium chlorides   | fluorite                   | cesium fluorides       |
|         | carbon tetrachloride  | fluoro compounds           | chromium fluorides     |
|         | copper chlorides  | cryolite                   | cobalt fluorides       |
|         | and the first of the control of the |                            |                        |
|         | dichlorides   | difluoro compounds         | copper fluorides       |
|         | germanium chlorides   | perfluoroalkane            | lanthanum fluorides    |
|         | hydrochlorides  | polytetrafluoroethylene    | lithium fluorides      |
|         | hydrogen chlorides  | teflon (trademark)         | magnesium fluorides    |
|         | hydrochloric acid   | fluorine organic compounds | nickel fluorides       |
|         | iron chlorides  | fluoroamines               | plutonium fluorides    |
|         | lanthanum chlorides   | nitrofluoramines           | protactinium fluorides |
|         | lead chlorides  | trifluoroamine oxide       | sodium fluorides       |
|         | lithium chlorides   | fluorocarbons              | strontium fluorides    |
|         | magnesium chlorides   | fluorohydrocarbons         | thorium fluorides      |
|         | nitrosyl chlorides  | carbon tetrafluoride       | tungsten fluorides     |
|         | nitroxychlorides  | chlorofluoromethane        | uranium fluorides      |
|         | nitryl chlorides  | polytetrafluoroethylene    | zinc fluorides         |
|         | phosgene  | teflon (trademark)         | zirconium fluorides    |
|         | potassium chlorides   | fluoropolymers             | nitrogen fluorides     |
|         | silicon tetrachloride   | polytetrafluoroethylene    | nitryl fluorides       |
|         | silver chlorides  | teflon (trademark)         | oxyfluorides           |
|         |   |                            | •                      |
|         | sodium chlorides  | KEL-F                      | oxygen fluorides       |
|         | sulfur chlorides  | polyvinyl fluoride         | ozone fluoride         |
|         | tetrachlorides  | perfluoroalkane            | perchloryl fluorides   |
|         | titanium chlorides  | perfluoroguanidine         | polyvinyl fluoride     |
|         | tungsten chlorides  | fluorosilicates            | sulfur fluorides       |
|         | zinc chlorides  | tetrafluorohydrazine       | sulfur hexafluoride    |
|         | chlorine fluorides  | . halides                  | technetium fluorides   |
|         | chlorine oxides   | bromides                   | metal halides          |
|         | chlorocarbons   | ammonium bromides          | alkali halides         |
|         | chlorosilanes   | cesium bromides            | cesium halides         |
|         | DDT   | chromium bromides          | cesium bromides        |
|         | meclizine   | dibromides                 | cesium fluorides       |
|         | perchlorates  | hydrobromic acid           | cesium iodides         |
|         |   | hydrobromides              | potassium iodides      |
|         | aluminum perchlorates   |                            |                        |
|         | ammonium perchlorates   | magnesium bromides         | sodium bromides        |
|         | hydrazine perchlorates  | potassium bromides         | sodium chlorides       |
|         | hydrogen perchlorate  | silver bromides            | sodium fluorides       |
|         | hydroxylammonium perchlorates   | sodium bromides            | sodium iodides         |
|         | lithium perchlorates  | strontium bromides         | aluminum chlorides     |
|         | magnesium perchlorates  | chlorides                  | barium fluorides       |
|         | nitronium perchlorate   | aluminum chlorides         | beryllium chlorides    |
|         | mitromann peremerate  |                            |                        |

| cadmium chlorides                                | RT defluorination  | von Zeipel method                          |
|--|--|--|
| calcium chlorides                                | halogens   |  |
| chromium bromides                                |  | Hamilton-Jacobi equation                   |
| copper chlorides                                 | halogens   | RT ∞ equations                             |
| hafnium iodides                                  | GS chemical elements                                       | equations of motion                        |
| iron chlorides<br>lanthanum chlorides            | . halogens   | Hamiltonian functions                      |
| lead chlorides                                   | astatine   | relativistic particles                     |
| lithium chlorides                                | bromine  | ·  |
| magnesium bromides                               | bromine isotopes<br>chlorine                               | hammarhand configuration                   |
| metal fluorides                                  | fluorine   | hammerhead configuration  RT forebodies    |
| aluminum fluorides                               | fluorine isotopes  | missile configurations                     |
| beryllium fluorides                              | liquid fluorine  | micono comigaratione                       |
| cadmium fluorides                                | iodine   |  |
| calcium fluorides                                | iodine isotopes  | hammers                                    |
| fluorspar  | iodine 125   | GS tools                                   |
| cesium fluorides                                 | iodine 131   | . hammers                                  |
| chromium fluorides                               | iodine 132   | electromagnetic hammers<br>RT impactors    |
| cobalt fluorides                                 | RT excimer lasers  | RT impactors presses                       |
| copper fluorides lanthanum fluorides             | halides  | rams (presses)                             |
| lithium fluorides                                | halogenation   | Tamo (process)                             |
| magnesium fluorides                              | balan  |  |
| nickel fluorides                                 | halon  | hamsters                                   |
| plutonium fluorides                              | (added January 2000) DEF A bromofluorocarbon compound that | GS animals                                 |
| protactinium fluorides                           | was widely used as an agent for fire suppression           | . vertebrates<br>mammals                   |
| sodium fluorides                                 | and explosion protection. After being recognized           | rodents                                    |
| strontium fluorides                              | as an ozone-depleting substance, the U.S. pro-             | hamsters                                   |
| thorium fluorides                                | duction and import of halons was banned in                 | Hamsters                                   |
| tungsten fluorides                               | 1994.  |  |
| uranium fluorides                                | GS carbon compounds  | hand (anatomy)                             |
| zinc fluorides                                   | halocarbons  | GS anatomy                                 |
| zirconium fluorides                              | halon  | . limbs (anatomy)                          |
| niobium iodides<br>potassium bromides            | halogen compounds  | hand (anatomy)                             |
| potassium chlorides                              | . bromine compounds  | fingers                                    |
| silver halides                                   | . halon  | appendages<br>. hand (anatomy)             |
| silver bromides                                  | . halocarbons  | . fingers                                  |
| silver chlorides                                 | halon  | RT wrist                                   |
| silver iodides                                   | RT fire extinguishers flame retardants                     | ····                                       |
| strontium bromides                               | fluorocarbons  |  |
| technetium fluorides                             | nuorocarbons   | handbooks                                  |
| titanium chlorides                               | halophiles   | GS documents                               |
| tungsten halides                                 | RT agriculture   | . handbooks                                |
| tungsten chlorides                               | plants (botany)  | user manuals (computer programs            |
| tungsten fluorides                               | plants (botarry)   | RT bibliographies                          |
| zinc chlorides                                   | halos  | directories indexes (documentation)        |
| zirconium iodides                                | GS scattering  | manuals                                    |
| oxyhalides                                       | . wave scattering  | subjects                                   |
| . halocarbons<br>chlorocarbons                   | electromagnetic scattering                                 | textbooks                                  |
| chlorocarbons                                    | light scattering   | training analysis                          |
| fluorocarbons                                    | halos  | 3 4 4,4 4                                  |
| halon  | transmission   | Laste Laste                                |
| . iodine compounds                               | . electromagnetic wave transmission                        | handedness                                 |
| iodates  | light transmission   | RT chirality                               |
| lithium iodates                                  | light scattering   | lateral stability                          |
| iodides  | halos  |  |
| cesium iodides                                   | . wave propagation   | handicaps                                  |
| gallamine triethiodide                           | light scattering   | USE disabilities                           |
| hafnium iodides                                  | <b>halos</b><br>RT astronomv                               |  |
| niobium iodides                                  | RT astronomy atmospheric scattering                        | handles                                    |
| potassium iodides                                | coronas  | RT knobs                                   |
| silver iodides<br>sodium iodides                 | galactic halos   | levers                                     |
| zirconium iodides                                | haze   | manual control                             |
| iodoacetic acid                                  | images   |  |
| . nitrosyls                                      | rainbows   | Handley Dage circust                       |
| nitrosyl chlorides                               |  | Handley Page aircraft                      |
| RT ∞ chemical compounds                          | Halphen method   | GS Handley Page aircraft . HP-115 aircraft |
|  | RT ∞ methodology   | . Victor MK-1 aircraft                     |
| Halogen Occultation Experiment                   | 3,   | RT ∞ aircraft                              |
| DEF Shuttle experiment to provide global         | Hamburger aircraft   | TTT GILOTOIT                               |
| stratospheric vertical concentration profiles of | GS Hamburger aircraft                                      |  |
| key chemical species involved in the catalytic   | . C-160 aircraft   | Handley Page HP-115 aircraft               |
| destruction of ozone due to chlorine com-        | . HFB-320 aircraft   | USE HP-115 aircraft                        |
| pounds. Used for HALOE.                          | RT ∞ aircraft  |  |
| UF HALOE   |  | handling equipment                         |
| GS payloads                                      | Hamburger HFB-320 aircraft                                 | GS handling equipment                      |
| . Space Shuttle payloads                         | USE HFB-320 aircraft                                       | . cranes                                   |
| Halogen Occultation Experiment                   |  | gantry cranes                              |
| RT ozone   | Hamiltonian functions                                      | RT crawler tractors                        |
|  | GS functions (mathematics)                                 | ∞ equipment                                |
| halogenation                                     | Hamiltonian functions                                      | ground support equipment                   |
| GS chemical reactions                            | RT classical mechanics                                     | harbors                                    |
| halogenation                                     | cluster variation method                                   | locomotives                                |
| bromination                                      | ∞ dynamics   | propellant storage                         |
| chlorination                                     | Hamilton-Jacobi equation                                   | ∞ storage                                  |
| fluorination                                     | quantum theory   | tractors                                   |

| transportation   | GS waterways   | tibility or vulnerability of weapon systems and                                       |
|--|--|---|
| handling qualities   | . <b>harbors</b><br>artificial harbors                             | components. GS hardening (systems)  |
| USE controllability  | RT boats   | radiation hardening   |
| ,  | breakwaters  | RT ∞ hardening  |
| hands (robotics)   | cargo  | missile defense   |
| USE end effectors  | dredging   | nuclear warfare   |
| handwriting  | estuaries  | ∞ systems   |
| GS handwriting   | freighters   | hardness  |
| . graphology   | handling equipment marine transportation                           | DEF Resistance of metal to plastic deforma-   |
| RT character recognition   | oceanography   | tion usually by indentation. However, the term  |
| orthography  | ∞ ports  | may also refer to stiffness or temper, or to  |
|  | regional planning  | resistance to scratching, abrasion, or cutting.                                       |
| Hanford reactors GS nuclear reactors   | ship terminals   | GS mechanical properties  |
| . Hanford reactors   | ships  | . hardness  |
| RT reactor design  | tanker ships<br>terminal facilities                                | microhardness<br>Knoop hardness   |
| reactor physics  | traffic  | Rockwell hardness   |
| reactor technology   | ∞ travel   | Vickers hardness  |
|  | water vehicles   | RT abrasion resistance  |
| hang gliders   | wharves  | brittle materials   |
| DEF Ultralight, unpowered aircraft in which  |  | brittleness   |
| the pilot controls the flight attitude and glide path by shifting his position on a suspended seat | hard coal  | Charpy impact test  |
| (swing seat).  | USE anthracite   | cold hardening  |
| GS gliders   | hard landing   | ductility   |
| . hang gliders   | DEF An impact landing of a spacecraft on                           | fatigue (materials)<br>fracture strength  |
| RT ∞ aircraft  | the surface of a planet or natural satellite de-                   | impact strength   |
| flexible wings   | stroying all equipment except possibly a very                      | indentation   |
| free flight  | rugged package.  | notch tests   |
| man powered aircraft   | GS landing   | plastic properties  |
| parawings<br>sailwings   | . hard landing   | softness  |
| soaring  | RT aircraft landing<br>crash landing                               | surface properties  |
| ultralight aircraft  | emergency landing  | temper (metallurgy)   |
| ∞ winged vehicles  | lunar landing  | toughness<br>wear   |
| ŭ  | planetary landing  | wear resistance   |
| hangars  | soft landing   | Wodi Toolotanoo   |
| (added December 1990)  | spacecraft landing   | hardness tests  |
| UF aircraft hangars RT airfield surface movements  | water landing  | RT compression tests  |
| RT airfield surface movements airports   | hardeners  | high temperature tests  |
| buildings  | RT alloys  | impact tests  |
| ground handling  | hardening (materials)  | Knoop hardness  |
| ground stations  | heat treatment   | low temperature tests ∞ materials tests   |
| heliports  |  | nanoindentation   |
| military air facilities  | ∞ hardening  | nondestructive tests  |
|  | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS | static tests  |
| Hankel functions   | LISTED BELOW)  | ∞ tests   |
| GS analysis (mathematics) . complex variables  | RT hardening (materials)   | Vickers hardness  |
| Bessel functions   | hardening (systems)  | wear tests  |
| Hankel functions   | hardening (materials)  | h androana  |
| . real variables   | UF metal hardening   | ∞ hardware     SN (USE OF A MORE SPECIFIC TERM IS)                                    |
| Bessel functions   | GS hardening (materials)   | RECOMMENDEDCONSULT THE TERMS  |
| Hankel functions   | . carburizing  | LISTED BELOW)   |
| functions (mathematics) . Hankel functions   | . cold hardening   | DEF Physical equipment as contrasted to ideas or design that may exist only on paper. |
| RT boundary value problems   | . hot pressing   | RT computers  |
| differential equations   | hot isostatic pressing . nitriding                                 | electronic modules  |
| orthogonal functions   | . precipitation hardening  | ∞ equipment   |
| <b>G</b>   | maraging   | evolvable hardware  |
| Hansen lunar theory  | . pulse heating  | firmware  |
| RT Earth orbits  | . shot peening   | fixtures  |
| orbital mechanics  | . siliconizing   | reconfigurable hardware tools   |
| perturbation theory<br>∞ theories  | . work hardening   | 10013   |
| ∞ trieories  | strain hardening RT aging (materials)                              | hardware description languages  |
| haploscopes  | aging (metallurgy)   | (added January 1994)  |
| GS measuring instruments   | annealing  | DEF Formal languages and notations used   |
| . optical measuring instruments  | coagulation  | in the specification, design, simulation, and   |
| haploscopes  | dispersion strengthening   | documentation of computer hardware systems  |
| optical equipment  | hardeners  | and their component circuits.   |
| . optical measuring instruments  | ∞ hardening  | UF HDL (computers)  |
| haploscopes  | heat treatment   | VHDL (computers) GS languages   |
| RT astigmatism binocular vision  | martensite<br>metal working  | . hardware description languages  |
| eye examinations   | ∞ metallurgy   | RT computer design  |
| ∞ instruments  | microstructure   | computer systems simulation   |
| optometry  | normalizing (heat treatment)                                       | formalism   |
|  | oxide dispersion strengthening                                     | integrated circuits   |
| harbors  | peening  | logic design  |
| DEF Small bays or sheltered parts of seas,   | quenching (cooling)  | very large scale integration  |
| lakes, or other large bodies of water, usually well  | ∞ setting  | hardware utilization lists  |
| protected either naturally or artifically against high waves and strong currents. Harbors are      | softening<br>tempering   | UF HUL  |
| furnished deep enough to provide safe anchor-  | tempering  | GS lists  |
| age for ships; especially such places in which   | hardening (systems)  | . hardware utilization lists  |
| port facilities are furnished.   | DEF Techniques for decreasing the suscep-                          | RT ∞ catalogs   |

documents

hardware-in-the-loop simulation

(added February 1999)
UF hardware-in-the-loop tests

simulation GS

. hardware-in-the-loop simulation computerized simulation

control simulation performance tests systems simulation

hardware-in-the-loop tests (added February 1999)

USE hardware-in-the-loop simulation

Harleton meteorite

GS celestial bodies

. meteorites

. . stony meteorites

. . . chondrites

. . . Harleton meteorite RT iron meteorites

harmonic analysis

DEF A statistical method for determining the amplitude and period of certain harmonic or wave components in a set of data with the aid of Fourier series.

GS analysis (mathematics)

. functional analysis

... harmonic analysis

. . . tesseral harmonics

. . zonal harmonics

Banach space form factors

Fourier analysis

frequency analyzers

microwave resonance

harmonic control

RT ∞ control

harmonic oscillation

harmonics

helicopter control

rotary wings vibration damping

harmonic excitation

GS excitation

wave excitation

. harmonic excitation

harmonics

. harmonic excitation

acoustics

Fourier analysis

simple harmonic motion

harmonic functions

Any solution of the Laplace equations. GS

analysis (mathematics) . complex variables

. harmonic functions

functions (mathematics)

harmonic functions

RT Airy function Fourier analysis

Laplace equation

maximum principle

harmonic generations

harmonics GS

harmonic generations

acoustics

carrier frequencies Fourier analysis

phase matching

wave generation

harmonic generators

comparators frequency converters

∞ generators

harmonics oscillators

subharmonic generators

harmonic motion

The projection on a diameter of the DEF circle of such motion.

GS harmonic motion

simple harmonic motion

group velocity ∞ motion

harmonic oscillation

GS harmonics

harmonic oscillation

oscillations

harmonic oscillation

acoustics

Fourier analysis harmonic control

transverse oscillation

harmonic oscillators

oscillators GS

harmonic oscillators

RT harmonics mechanical oscillators

subharmonic generators

harmonic radiation

RT electromagnetic radiation

∞ radiation

harmonics

Eigenfrequency oscillations excited in a vibrating system. Used for overtones.

overtones

GS harmonics

. harmonic excitation

harmonic generations

. harmonic oscillation

simple harmonic motion

. spherical harmonics

superharmonics

tesseral harmonics

zonal harmonics

acoustics

cycles Fourier analysis

frequencies

harmonic control

harmonic generators

harmonic oscillators

nodes (standing waves) resonant frequencies

sound-sound interactions

standing waves

subaudible frequencies subharmonic generators

vibration

wavelengths

harnesses

couches safety devices

seat belts

seats transmission lines

Harpoon missile

GS missiles

. air to surface missiles

. Harpoon missile

RT surface to surface missiles weapon systems

Harrier aircraft

(added February 1993)

AV-8A aircraft AV-8B aircraft

YAV-8B aircraft

attack aircraft . fighter aircraft

. Harrier aircraft

Hawker Siddeley aircraft

. Harrier aircraft RT ∞ aircraft

Buccaneer aircraft

∞ military aircraft

P-1127 aircraft

Saab 37 aircraft

Vampire MK 35 aircraft

Vulcan aircraft

Hartmann flow

GS fluid flow

laminar flow

. . Hartmann flow

. steady flow

Hartmann flow

Couette flow

magnetohydrodynamic flow magnetohydrodynamics

Hartmann number

dimensionless numbers

. Hartmann number

two dimensional flow

ratios

. Hartmann number

magnetohydrodynamics viscous drag

Hartmann-Sprenger tubes

(added August 2003)
DEF A passive, pulsed-flow device in which under-expended, sonic or supersonic jet flows impinge on a tube closed on one end, thus producing gas dynamic oscillations and converting a steady flow into a continuous source of pulsed flow.

RT pulse generators ∞ test equipment

Hartree approximation Hartree-Appleton approximation Hartree-Fock approximation analysis (mathematics)

. numerical analysis . . approximation

. . . Hartree approximation
RT atomic structure

density functional theory

many body problem

perturbation theory self consistent fields

wave functions

Hartree-Appleton approximation USE Hartree approximation

Hartree-Fock approximation

USE Hartree approximation

Hartree-Fock-Slater method DEF A refined approximation method for the calculation from wave function of electron total energies, kinetic energies, etc., for chemical

elements. RT atomic physics electron energy

∞ methodology Slater orbitals

Harvard Radio Meteor Project GS

programs

. projects Harvard Radio Meteor Project

RT radio echoes

hassium

(added May 1998) GS chemical elements

hassium bohrium meitnerium

Hastelloy (trademark)

GS allovs . nickel alloys

. Hastelloy (trademark) iron allovs molybdenum alloys

hatches

RT air locks doors earess

> gates (openings) ingress (spacecraft passageway)

hauling

RT cargo

delivery ... hazardous material disposal (in ency, of the atmosphere near the Earth's surmaterials handling face, is often caused by haze or by heat refracpackaging management tion (shimmering). transportation . waste management air pollution transportation energy . . waste disposal atmospheric optics ... hazardous material disposal (in clarity space) fog Hawaii RT aerospace environments halos GS landforms public health light transmission . islands radioactive wastes low visibility . . Hawaii toxicity and safety hazard mist nations opacity . United States hazardous materials optical properties . . Hawaii (added March 1997) transparence GS hazardous materials turbidity Hawk missile hazardous wastes visibility missiles biological hazards . surface to air missiles carcinogens haze detection contaminants . Hawk missile GS detection solid propellant rocket engines explosives haze detection hazards fog forest fire detection Hawker Hunter aircraft ∞ materials USE F-2 aircraft poisons fumes radiation hazards gas detectors Hawker P-1127 aircraft toxic hazards mist USE P-1127 aircraft toxins and antitoxins remote sensors waste disposal smoke Hawker P-1154 aircraft vapors USE P-1154 aircraft hazardous wastes (added March 1997) **HBNQ** Hawker Siddeley aircraft GS hazardous materials USE nitroguanidine GS Hawker Siddeley aircraft hazardous wastes . Argosy MK-1 aircraft wastes HBWR reactor AVRO 707 aircraft hazardous wastes USE Halden Boiling Water Reactor . Buccaneer aircraft biological hazards . Comet 4 aircraft contaminants HC-1 helicopter DH 112 aircraft environmental cleanup USE CH-47 helicopter . DH 115 aircraft hazards . DH 121 aircraft radiation hazards **HC-3** helicopter . DH 125 aircraft Omnipol HC-3 helicopter toxic hazards general aviation aircraft . F-2 aircraft waste disposal GA-5 aircraft HC-3 helicopter . Harrier aircraft hazards transport aircraft . HS-748 aircraft HC-3 helicopter danger . HS-801 aircraft noise hazards V/STOL aircraft . rotary wing aircraft
. helicopters . P-1127 aircraft GS hazards . P-1154 aircraft . aircraft hazards . . runway incursions . flight hazards Shackleton bomber ... military helicopters Vampire MK 35 aircraft . Vulcan aircraft meteoroid hazards RT passenger aircraft RT ∞ aircraft . biological hazards operational hazards **HCL** argon lasers Hawkeye 1 satellite radiation hazards DEF Gas lasers in which the active material toxic hazards
accident prevention
accidents
aircraft spin is gaseous hydrogen chloride and argon.
GS stimulated emission devices USE Explorer 52 satellite Hawkeye aircraft . lasers . . chemical lasers USE E-2 aircraft . . . HCL lasers avoidance .... HCL argon lasers Hawkeye satellites crash injuries . . gas lasers GS artificial satellites detectors . scientific satellites explosions . . . HCL lasers .... HCL argon lasers . . Hawkeye satellites fires flammable gases **HCL** lasers hay hazardous materials GS farm crops DEF Gas lasers in which the active material hazardous wastes . hay incompatibility is gaseous hydrogen chloride. Used for hydroplants (botany) injuries gen chloride lasers. hydrogen chloride lasers . grasses low visibility . hay noise tolerance stimulated emission devices RT agriculture occupational diseases . lasers botany protection . . chemical lasers Earth resources ... HCL lasers risk farmlands . . . . HCL argon lasers sabotage . . gas lasers safety grasslands ... HCL lasers safety devices leguminous plants safety factors . . . . HCL argon lasers safety management Haynes Stellite spacecraft breakup **HCMM** USE Stellite (trademark) spontaneous combustion USE Heat Capacity Mapping Mission toxicology HAZ (metallurgy) warning systems **HCN lasers** USE heat affected zone hydrogen cyanide lasers stimulated emission devices haze hazardous material disposal (in space) Fine particles of dust, salt, or water . lasers . . gas lasers The disposal in space of hazardous dispersed through a part of the atmosphere, material. When radioactive materials are indiminishing transparency of the air, causing colors to assume a characteristic subdued opalesvolved, the expected lifetime of orbit exceeds chemical lasers

cent appearance, and reducing the horizontal visibility to more than one, but less than two

kilometers. The obscuration, or lack of transpar-

the lifetime of the radioactivity.

. waste disposal

disposal

GS

coherent light hydrocyanic acid

light amplifiers

### head (anatomy)

light sources cardiovascular system radiation protection optical pumping gravitational physiology radiation sickness gravity perception stimulated emission radiobiology head down tilt safety factors HD-1 ground effect machines hemodynamic responses ∞ science hovercraft ground effect machines hindlimb suspension Health Physics Research Reactor lower body negative pressure HPRR HDL (computers) orthostatic tolerance UF hardware description languages USE physiological responses nuclear reactors . nuclear research and test reactors supine position **HDTV** tilt-table test ... Health Physics Research USE high definition television Reactor weightlessness simulation RT ∞ physics head (anatomy) headache GS anatomy UF cephalagia Health-Education Telecommunications exp . head (anatomy) GS diseases USE **HET experiment** . . skull . headache **HEAO** . . . cranium signs and symptoms . . . . intracranial cavity . headache UF High Energy Astronomy . . mastoids Observatories artificial satellites RT brain  $\infty$  headers GS (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . scientific satellites chin SN eye (anatomy) . . astronomical satellites face (anatomy) ... HEAO RT beams (supports) forehead .... HEAO 1 chassis lips (anatomy) .... HEAO 2 hermetic seals . . . . HEAO 3 nose (anatomy) pipes (tubes) sense organs . HEAO 4 supports observatories ∞ terminals head (fluid mechanics) . astronomical observatories . . astronomical satellites fluid flow headsets . head (fluid mechanics) . . . HEAO USE earphones . . head flow .... HEAO 1 . pressure heads head-up displays .... HEAO 2 . . . . HEAO 3 elevation GS display devices geopotential height . HEAO 4 head-up displays hydrostatic pressure OAO avionics hydrostatics consoles liquid flow HEAO 1 flight instruments The first of three NASA High Energy pressure image tubes scale height Astronomy Observatories launched during 1977 indicating instruments for the study of cosmic rays and Earth's maglanding aids head (pressure) netic field to study the x ray and gamma ray sky. navigation aids USE pressure heads Used for HEAO A, High Energy Astronomy position indicators Observatory A, and High Energy Astronomy spacecraft position indicators head down tilt Observatory 1. warning systems HÉAO A GS posture head down tilt High Energy Astronomy Observatory healing aerospace medicine GS healing bed rest High Energy Astronomy Observatory wound healing bioastronautics clinical medicine body sway test GS artificial satellites cures head up tilt . scientific satellites therapy hemodynamic responses . . astronomical satellites hindlimb suspension . . . HEAO health . . HEAO 1 hypokinesia GS health orthostatic tolerance . health physics observatories physiological effects . . public health . astronomical observatories tilt-table test mental health . . astronomical satellites ... HEAO vestibular tests chronic conditions weightlessness simulation ... HEAO 1 clinical medicine hygiene unmanned spacecraft head flow oral hygiene HEAO 1 GS fluid flow psychotherapy RT OAO . head (fluid mechanics) sanitation HEAO 2 . head flow RT base flow health and usage monitoring systems The second of three NASA High En-Blasius flow (added April 2001) ergy Astronomy Observatories. It was launched inlet flow systems health monitoring during 1978 for the study of specific x ray objects, quasars, x ray pulsars, and candidate black holes. Used for Einstein Observatory, liquid flow ∞ pressure drop health physics HEAO B, High Energy Astronomy Observatory biophysics head movement . health physics B, and High Energy Astronomy Observatory 2. RT acceleration stresses (physiology) . . public health Einstein Observatory aerospace medicine health HEAO B eye movements . health physics High Energy Astronomy Observatory ∞ motion . public health motion sickness High Energy Astronomy Observatory fluence vestibular tests industrial safety nuclear medicine artificial satellites head up tilt nuclear physics . scientific satellites (added March 1998) nuclear radiation . . astronomical satellites . . . HEAO Body posture while lying on a tilt table occupational diseases with the head higher than the rest of the body. ∞ physics .. HEAO 2 HUT (physiology)
posture radiation detectors observatories GS radiation dosage . astronomical observatories head up tilt radiation effects . . astronomical satellites ...HEAO aerospace medicine radiation hazards .... HEAO 2 radiation injuries bed rest radiation measuring instruments bioastronautics unmanned spacecraft

|               | . HEAO 2   | artificial cardiac pacemaker                   |          | arrhythmia                             |
|---------------|--|--|----------|--|
| RT            | OAO  | artificial heart valves                        |          | bradycardia                            |
|               |  | blood  | 5.7      | . tachycardia                          |
| HEAO 3        |  | blood pumps                                    | RT       | angina pectoris                        |
| DEF           | The third of four NASA High Energy                                   | cardiograms                                    |          | baroreflexes                           |
|               | ny Observatories. It was launched dur-                               | cardiography                                   |          | biofeedback                            |
|               | 9 for the study of cosmic rays and                                   | cardiology                                     |          | biomedical data                        |
|               | al and isotropic composition as a corol-                             | cardiotachometers                              |          | cardiac output                         |
|               | a search of narrow gamma ray lines.                                  | coronary circulation                           |          | cardiology                             |
|               | r HEAO C, High Energy Astronomy<br>tory C, and High Energy Astronomy | diastole                                       |          | diastole                               |
| Observa       |  | muscles  |          | epinephrine                            |
|               | HEAO C   | phonocardiography                              |          | heart function<br>Hering-Brever reflex |
| Oi            | High Energy Astronomy Observatory                                    | heart conduction system                        |          | sphygmography                          |
|               | 7  | (added August 2004)                            |          | stroke volume                          |
|               | High Energy Astronomy Observatory                                    | DEF An impulse-conducting system com-          |          | systole                                |
|               | C  | posed of modified cardiac muscle and having    |          | Systole                                |
| GS            | artificial satellites  | the power of spontaneous rhythmicity and con-  |          |  |
|               | . scientific satellites  | duction more highly developed than the rest of | neart va |  |
|               | astronomical satellites  | the heart.                                     | GS       | valves                                 |
|               | HEAO   | GS anatomy                                     |          | heart valves                           |
|               | HEAO 3   | . circulatory system                           | DT       | artificial heart valves                |
|               | observatories  | cardiovascular system                          | RI       | coronary circulation                   |
|               | . astronomical observatories   | heart  |          |  |
|               | astronomical satellites  | heart conduction system                        | hearths  |  |
|               | HEAO   | RT artificial cardiac pacemaker                | RT       | furnaces                               |
|               | HEAO 3   | blood circulation                              |          | refractories                           |
|               | unmanned spacecraft  | heart function                                 |          |  |
|               | . HEAO 3   | myocardium                                     | heat     |  |
| RT            | OAO  |  | DEF      | Energy transferred by a thormal pro    |
|               |  | heart diseases                                 | cess.    | Energy transferred by a thermal pro    |
| HEAO 4        |  | GS diseases                                    | GS       | heat                                   |
|               | ed May 1997)   | heart diseases                                 | 00       | . dry heat                             |
| UF            | HEAO D   | angina pectoris                                |          | . enthalpy                             |
|               | High Energy Astronomy Observatory                                    | coronary artery disease                        |          | Gibbs free energy                      |
|               | 4  | infarction                                     |          | heat of dissociation                   |
|               | High Energy Astronomy Observatory                                    | myocardial infarction                          |          | heat of formation                      |
| 00            | D  | RT bradycardia                                 |          | heat of solution                       |
| GS            | artificial satellites  | cardiography                                   |          | latent heat                            |
|               | . scientific satellites  | cardiology                                     |          | heat of fusion                         |
|               | astronomical satellites<br>HEAO                                      | cardiovascular system<br>echocardiography      |          | heat of vaporization                   |
|               | HEAO 4   | electrocardiography                            |          | . heat of combustion                   |
|               | observatories  | fat embolisms                                  |          | . nuclear heat                         |
|               | . astronomical observatories   | fibrillation                                   |          | . process heat                         |
|               | astronomical observatories   | His bundle                                     |          | specific heat                          |
|               | HEAO   | phonocardiography                              | RT       | activation energy                      |
|               | HEAO 4   | prioriocardiography                            | ~        | energy                                 |
| RT            | gamma ray astronomy  | heart function                                 |          | entropy                                |
|               | x ray astronomy  | GS heart function                              |          | heating                                |
| •             | A ray actionismy   | . diastole                                     |          | heating equipment                      |
| HEAO A        |  | . fibrillation                                 |          | infrared radiation                     |
| USE           | HEAO 1   | . systole                                      |          | temperature                            |
|               |  | RT angina pectoris                             |          | thermal energy                         |
| HEAO E        | }  | blood circulation                              |          | thermal insulation                     |
| USE           | HEAO 2   | blood pressure                                 |          | thermal radiation                      |
|               |  | cardiac output                                 |          | thermochemistry                        |
| HEAO C        |  | cardiography                                   |          | thermodynamic properties               |
| USE           | HEAO 3   | carotid sinus reflex                           |          | thermodynamics                         |
|               |  | cyanosis                                       |          | work                                   |
| HEAO E        |  | echocardiography                               |          |  |
|               | d May 1997)  | heart conduction system                        | heat ac  | climatization                          |
| USE           | HEAO 4   | heart minute volume                            | GS       | adaptation                             |
| hooring       |  | heart rate                                     |          | . acclimatization                      |
| hearing<br>GS | hearing  | hemodynamics                                   |          | heat acclimatization                   |
| 63            | . binaural hearing   | His bundle                                     | RT       | body temperature                       |
| RT            | audiology  | physiology                                     |          | cold acclimatization                   |
| 111           | audiometry   | stroke volume                                  |          | high temperature environments          |
|               | auditory fatique   | heart implantation                             |          | human tolerances                       |
|               | auditory tasks   | GS implantation                                |          | perspiration                           |
|               | ear  | . heart implantation                           |          | physiological effects                  |
|               | loudness   | RT artificial heart valves                     |          |  |
|               | stereophonics  | biotechnology                                  | heat aff | ected zone                             |
|               | thresholds (perception)  | blood circulation                              |          | That portion of the base metal, the    |
|               | (F   | pulmonary circulation                          |          | e or properties of which have been a   |
| hearing       | loss   | surgery  |          | the heat of welding or gas-cutting     |
| USE           | auditory defects   | transplantation                                |          | n. Used for HAZ (metallurgy).          |
| •             | •  | a a ropia nation                               |          | HAZ (metallurgy)                       |
| heart         |  | heart minute volume                            |          |  |
| GS            | anatomy  | GS output                                      |          | gas tungsten arc welding               |
|               | . circulatory system   | . cardiac output                               |          | heat treatment                         |
|               | cardiovascular system  | heart minute volume                            |          | metal bonding                          |
|               | heart  | RT heart function                              | ~        | metallurgy                             |
|               | cardiac auricles   | spirometers                                    |          | metal-metal bonding                    |
|               | cardiac ventricles   | •  |          | soldering                              |
|               | epicardium   | heart rate                                     |          | temperature dependence                 |
|               | heart conduction system  | UF pulse (cardiovascular)                      |          | temperature effects                    |
|               | myocardium   | GS rates (per time)                            |          | thermomechanical treatment             |
| RT            | aorta  | . heart rate                                   |          | weldability                            |

welding regenerators thermodynamic equilibrium SÑAP heat balance SNAP 1 heat of formation The equilibrium which exists on the formation heat SNAP 2 average between the radiation received by a GS SNAP 8 chemical properties . thermochemical properties planet and its atmosphere from the sun and that SNAP 10A emitted by the planet and the atmosphere. The space cooling (buildings) . heat of formation equilibrium which is known to exist when all space power reactors heat . enthalpy sources of heat gain and loss for a given region space power unit reactors of body are accounted for. In general, this waste heat balance includes advective or evaporative terms thermodynamic properties water heating as well as a radiation term. . enthalpy GS balance ... heat of formation heat flow heat balance . thermochemical properties USE heat transmission atmospheric heat budget .. heat of formation boilers heat flux combustion heat of fusion (LIMITED TO HEAT ENERGY SN DEF The increase in enthalpy accompanymaterial balance TRANSMISSION RATE)
The thermal intensity indicated by the pyrometallurgy DEF ing the conversion of one mole, or a unit mass, thermochemical properties amount of energy transmitted per unit area. of a solid to a liquid at its melting point at thermochemistry GS rates (per time) constant pressure and temperature. Used for flux (rate) latent heat of fusion. thermodynamic properties . heat flux UF fusion heat heat budget latent heat of fusion RT flux density GS The accounting for the total amount of chemical properties solar flux heat received and lost by a particular system. . thermochemical properties . . latent heat energy budgets heat gain . heat budget .. heat of fusion USE heating . atmospheric heat budget heat RT ∞ budgets . enthalpy heat generation (EXCLUDES BIOLOGICAL PRODUCTION OF HEAT) cogeneration Earth radiation budget . . latent heat SN specific heat . . heat of fusion thermodynamic properties . enthalpy heat capacity combustion USE specific heat direct power generators .. heat of fusion generation Heat Capacity Mapping Mission UF HCMM heating . thermochemical properties . . latent heat heating equipment Applications Explorer Satellites . . heat of fusion process heat geography . thermophysical properties solid propellant combustion . . latent heat mapping missions . . heat of fusion heat islands planetary mapping fusion (melting) RT cities thermal mapping melting climatology phase change materials urban planning heat conduction phase diagrams
phase transformations weather modification USE conductive heat transfer specific heat thermal energy heat content heat measurement USE enthalpy calorimetry thermochemistry bolometers thermodynamics heat dissipation bomb calorimeters transition temperature USE cooling calorimeters drop calorimeters heat of solution heat dissipation chilling enthalpy GS chemical properties USE cooling flame calorimeters . thermochemical properties ∞ measurement ... heat of solution heat effects shell anodes USE temperature effects heat . enthalpy heat of combustion heat engines . heat of solution combustion heat (added September 1992) thermodynamic properties chemical properties ceramics enthalpy . thermochemical properties energy technology . heat of solution heat of combustion thermochemical properties engines heat thermodynamic cycles heat of solution heat of combustion . thermophysical properties thermodynamic properties heat equations heat of solution thermochemical properties USE thermodynamics molecular energy levels . heat of combustion thermal energy combustion physics heat exchangers thermochemistry guns (ordnance) DEF Devices for transferring heat from one thermodynamics fluid to another without intermixing the fluids, as a regenerator and, an apparatus for cooling or heat of dissociation heat of vaporization heating the air in a wind tunnel. GS chemical properties vaporization heat heat exchangers thermochemical properties chemical properties . tube heat exchangers heat of dissociation . thermochemical properties condensers (liquefiers) heat . . latent heat coolants . enthalpy .. heat of vaporization cooling . heat of dissociation heat cooling fins thermodynamic properties . enthalpy cooling systems . . latent heat . enthalpy counterflow heat of dissociation . . heat of vaporization thermochemical properties evaporators thermodynamic properties ∞ exchangers heat of dissociation . enthalpy finned bodies chemical equilibrium . . latent heat gas cooling dissociation . . . heat of vaporization . thermochemical properties geothermal energy extraction ∞ eauilibrium heating reaction kinetics . . latent heat

thermal dissociation

thermochemistry

... heat of vaporization . thermophysical properties

heating equipment

regenerative cooling

. . latent heat . . heat of vaporization vaporizing heat pipes (EXCLUDES PIPES AND TUBES USED FOR THE TRANSMISSION OF HEATED LIQUIDS OR GASES) geothermal energy utilization spacecraft temperature heat pumps air conditioning air conditioning equipment condensers (liquefiers) cooling systems geothermal energy extraction heating equipment pumps refrigerating machinery residential energy space cooling (buildings) thermoelectric cooling waste heat heat radiators UF condenser radiators heat rejection devices GS heat radiators spacecraft radiators RT black body radiation cooling cooling fins cooling systems heating equipment ∞ insulated structures radiative heat transfer Stefan-Boltzmann law heat regulation USE temperature control heat rejection devices USE heat radiators heat resistance USE thermal resistance heat resistant alloys DEF Alloys developed for very high temperature service where relatively high stresses (tensile, thermal, vibratory, and shock) are encountered and where oxidation resistance is frequently required. Used for high temperature alloys and superalloys. high temperature alloys ÚF superalloys alloys . heat resistant alloys . . nimonic alloys . . refractory metal alloys . . . molybdenum alloys . . . . Rene 41 . . . . Rene 77 .... Rene 95 ... niobium alloys . . . osmium alloys . . . rhenium alloys ... tantalum alloys tungsten alloys . . Udimet alloys . Waspaloy RT aluminides cermets chromium alloys cobalt alloys dispersion strengthening hafnium alloys nickel alloys oxide dispersion strengthening refractory metals sulfidation superplasticity

# heat shielding

DEF The use of devices that protect something from heat. Specifically, the protective structure necessary to protect a reentry body from aerodynamic heating. Used for thermal shield-

thermal shielding GS shielding

. heat shielding . . reentry shielding

. . reusable heat shielding

ablation

ablative materials ablative nose cones

cooling

infrared suppression ∞ insulated structures

Ludox (trademark) pyrolytic graphite

solar reflectors spacecraft shielding

temperature

temperature control thermal control coatings

thermal insulation thermal protection

heat sinks

UF thermal sinks GS

sinks

heat sinks

RT ablative materials absorbers (materials) cooling systems endothermic reactions energy absorption

reentry shielding regenerators thermal absorption

thermal insulation

heat sources

UF hydraulic heating sources GS

heat sources
. thermal resources

. . geothermal resources

. . . geysers . radioisotope heat sources

 $RT \, {\it energy \, sources}$ energy storage

engines

geothermal technology

laser heating light sources power supplies radiation sources

thermodynamic efficiency

heat storage

thermal energy storage

energy storage GS

. heat storage

geothermal energy utilization

heat tapes

phase change materials solar dynamic power systems

solar houses

temperature Trombe walls

heat stroke

RT body temperature heat tolerance hot weather

hyperthermia physiological effects

thermal comfort thermal environments

heat tapes

heat storage RT ice prevention

∞ tapes

heat tests

USE high temperature tests

heat tolerance

tolerances (physiology) GS

heat tolerance

body temperature cold tolerance heat stroke

human tolerances

heat transfer

(TRANSMISSION ACROSS AN SN

INTERFACE)

The transfer or exchange of heat by radiation, conduction, or convection with a sub-stance and between the substance and its surroundings. Used for nonadiabatic processes. UF nonadiabatic processes

GS transmission

. heat transmission

. . heat transfer

... aerodynamic heat transfer

. . . . hypersonic heat transfer . supersonic heat transfer

... conductive heat transfer

convective heat transfer

. . . laminar heat transfer

radiative heat transfer

. . turbulent heat transfer

advection

atmospheric heat budget

baths

Biot number

boiling

Boussinesq approximation capillary pumped loops chemical engineering

compressibility effects

∞ conduction cooling counterflow cryogenic cooling

diffuse radiation dimensionless numbers

energy transfer film boiling

film condensation flat plates fluid boundaries forced convection gas transport

gas-liquid interactions gas-solid interfaces

geothermal energy conversion

geothermal technology

heating hot surfaces

Leidenfrost phenomenon Lewis numbers

liquid-liquid interfaces liquid-solid interfaces liquid-vapor interfaces mass transfer

mechanical engineering

metal vapors

nonadiabatic conditions

nongray gas

nonisothermal processes

nucleate boiling Nusselt number Peclet number

phase change materials Prandtl number radiative transfer Rayleigh equations reusable heat shielding

stagnation point Stanton number temperature profiles temperature ratio

temperature sensitive paints thermal diffusion thermal expansion thermal insulation thermal pollution thermoacoustic effects thermodynamics thermomigration transferring

transport properties

waste energy utilization

#### heat transfer coefficients

(HEAT FLUX PER UNIT AREA PER UNIT SN

TEMPERATURE DIFFERENCE)
DEF The rate of heat transfer per unit area per unit temperature difference, a quantity having the dimensions of reciprocal length.

GS coefficients thermomechanical treatment waste energy utilization . heat transfer coefficients accommodation coefficient heating equipment evaporation rate UF Gerdien arc heaters preheaters heating ∞ heaters mass flow factors (USE OF A MORE SPECIFIC TERM IS RECOMMENDED CONSULT THE TERMS LISTED BELOW) heating equipment SN nucleate boiling . boilers . furnaces deicers . . electric furnaces heat transmission deicing . . image furnaces DEF Heat transmitted from one substance electron tubes . . solar furnaces to another. Used for heat flow. heating equipment . . vacuum furnaces heat flow vaporizers . ovens transmission water heating . vaporizers . heat transmission . . evaporators . . heat transfer RT air conditioning . . . aerodynamic heat transfer heating air conditioning equipment . . . . hypersonic heat transfer heat gain crucibles . . . . supersonic heat transfer preheating deicers . . . conductive heat transfer reheating deicing . . . convective heat transfer warming ∞ electric equipment . . . laminar heat transfer heating GS ∞ equipment . . . radiative heat transfer . arc heating . atmospheric heating fuel tanks . . turbulent heat transfer heat adiabatic equations . . global warming heat exchangers annular flow . stratospheric warming heat generation convection baking heat pumps heat radiators convective flow . base heating ducted flow gas heating ∞ heaters equilibrium flow induction heating heating ∞ flow ionospheric heating onboard equipment fluid flow kinetic heating space heating (buildings) geophysics . . aerodynamic heating temperature control geothermal energy conversion . shock heating thermal insulation geothermal energy extraction laser heating water heating geothermal resources . magnetohydrodynamic shear mass flow factors heating heaving nonequilibrium flow . pasteurizing RT bending potential flow . plasma heating ∞ bows radial flow . electron cyclotron heating buckling radiative transfer radiant heating displacement steady flow radio frequency heating distortion thermal analysis . resistance heating flexing thermal insulation solar heating kinking thermohydraulics . space heating (buildings) ∞ motion uniform flow superheating pitch (inclination) unsteady flow . transient heating warpage wall flow . . pulse heating . . shock heating heavy cosmic ray primaries heat treatment water heating USE heavy nuclei air conditioning DEF Heating and cooling a solid metal or primary cosmic rays alloy in such a way as to obtain desired condiannealing tions or properties. autoclaving heavy elements GS heat treatment boiling GS chemical elements . annealing cementation . heavy elements . . laser annealing ∞ conduction RT ∞ elements . . pulse heating convection heavy ions cooling decarburization . maraging . nitriding heavy fermion superconductors defrosting . normalizing (heat treatment) (added April 1999) . stress relieving environmental engineering GS conductors geothermal energy extraction . tempering . superconductors (materials) aging (metallurgy) geothermal energy utilization heavy fermion superconductors alloys heat intermetallics heat exchangers baking . heavy fermion systems critical temperature heat generation ... heavy fermion superconductors ferritic stainless steels heat transfer forging heat transfer coefficients heavy fermion systems furnaces heat treatment (added April 1999) graphitization heating equipment GS intermetallics hardeners Hilsch tubes . heavy fermion systems hardening (materials) hydrothermal systems . heavy fermion superconductors heat affected zone ice prevention fermions superconductors (materials) heating integrated energy systems martensite jackets ∞ metallurgy laser annealing heavy ion collisions microstructure laser welding USE ionic collisions nucleation melting phase diagrams Modular Integrated Utility System heavy ions precipitation hardening ∞ radiation GŠ ions quenching (cooling) roasting heavy ions recrystallization heavy elements sintering soaking temperature salt baths ion stripping ∞ soaking isotope separation stabilization temperature control isotopes supercooling temperature distribution light ions thermal cycling tests supersaturation temper (metallurgy) thermal shock heavy lift airships temperature distribution thermal stresses DEF Airships designed to lift heavy materi-

vaporizina

als

thermochemistry

helicopter propeller drive GS airships ... heavy water components test stellarators heavy lift airships reactors ∞ helices materials handling . water moderated reactors (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) rotors . . heavy water components test reactors heavy lift helicopters curves (geometry) GS V/STOL aircraft heavy water reactors helical antennas . rotary wing aircraft GS nuclear reactors helical flow . . helicopters . liquid cooled reactors helical inducers heavy lift helicopters . . water cooled reactors helical windings ... CH-62 helicopter ... heavy water reactors ∞ spirals . . . . heavy water components test RT air cargo ∞ aircraft reactors helicopter attitude indicators . . . . plutonium recycle test reactor cargo aircraft USE attitude indicators helicopter design ... zero power reactor 2 helicopter control RT light water breeder reactors heavy lift launch vehicles GS aircraft control HLLV HEF (high energy fuels) . helicopter control GS launch vehicles USE high energy fuels airborne radar approach . heavy lift launch vehicles attitude control . . Ares 5 cargo launch vehicle automatic control . . Delta 4 Heavy launch vehicle Vertical distance; the distance above ∞ control . . Energiya launch vehicle some reference point or plane, as, height above controllability directional control sea level. The vertical dimension of anything; . Proton launch vehicle the distance which something extends above its Advanced Launch System (STS) foot or root, as blade height. Long March launch vehicles harmonic control rocket engines dimensions helicopters ∞ rockets . height lateral control spacecraft launching . scale height longitudinal control ∞ vehicles altitude manual control depth speed control heavy metals distance tail rotors (added July 1999) geopotential Metals or alloys having a high specific helicopter design ∞ level gravity; usually ones with a density greater than GS aircraft design slopes . helicopter design compound helicopters 5 grams per cubic centimeter. metals Heinkel aircraft . heavy metals cadmium RT ∞ aircraft computer aided design design Heisenberg theory engine design heavy lift helicopters chromium atomic theory contaminants Heisenberg theory copper industrial wastes helicopters atomic excitations product development Dyson theory lead (metal) rotor body interactions energy transfer mercury (metal) streamlining soil pollution ∞ theories structural design toxic hazards UH-60A helicopter zinc UH-61A helicopter (added January 1996) whirl towers A natural satellite of Saturn orbiting at heavy nuclei a mean distance of 377,400 kilometers. UF heavy cosmic ray primaries helicopter engines celestial bodies GS GS particles GS engines . natural satellites . charged particles . aircraft engines . . Saturn satellites . . energetic particles . . helicopter engines . . Helene . . . nuclei (nuclear physics) . internal combustion engines RT Saturn (planet) .... heavy nuclei . . helicopter engines . corpuscular radiation convertible fan-shaft engines helical antennas . . energetic particles helicopters Antennas used where circular polar-... nuclei (nuclear physics) jet engines ization is required. The driven element consists ... heavy nuclei T-53 engine of a helix supported above a ground plane. RT primary cosmic rays T-55 engine GS antennas T-58 engine . directional antennas heavy water T-63 engine . helical antennas DEF Water in which the hydrogen of the T-64 engine water molecule consists entirely of the heavy RT antenna design T-74 engine hydrogen isotope of mass 2 (deuterium). Used helices T-76 engine for deuterium oxides and hydrogen deuterium microwave antennas oxide. helicopter impulsive noise UF deuterium oxides helical flow USE blade slap noise hydrogen deuterium oxide GS fluid flow GS chalcogenides helical flow helicopter performance RT axisymmetric flow . oxides GS aircraft performance flow geometry helicopter performance . heavy water hydrogen compounds aerodynamic stability ∞ helices magnetohydrodynamic stability aircraft reliability . deuterium compounds . . heavy water three dimensional flow controllability water Cooper-Harper ratings helical inducers flight characteristics heavy water deuterium GS intake systems flight envelopes RT helical inducers moderators helicopters

field coils

plasma control

plasma control

helical windings

magnetic field configurations

∞ helices

winding

helical windings

RT ∞ helices

GS

tritium

GS nuclear reactors

heavy water components test reactors

. liquid cooled reactors

. . water cooled reactors

. . . heavy water reactors

reactors . nuclear research and test reactors

.... heavy water components test

#### helicopter propeller drive GS mechanical drives

pilot ratings

. propeller drive

maneuverability

helicopter propeller drive

helicopters jet propulsion rotary wings

|          | - W - 1 - W                             | 011.01.11                            |  |
|----------|---|--------------------------------------|--|
|          | tilted propellers                       | CH-3 helicopter                      | Helios 1   |
|          | variable pitch propellers               | F-28 helicopter                      |  |
|          |   | XH-51 helicopter                     | Helios 2   |
| helicopi | ter rotors                              | S-58 helicopter                      | GS artificial satellites                         |
|          | rotary wings                            | S-61 helicopter                      | . Helios satellites                              |
| OOL      | rotary wings                            |                                      |  |
| haliaan  | tor toil retorn                         | tandem rotor helicopters             | Helios 2   |
|          | ter tail rotors                         | CH-46 helicopter                     | unmanned spacecraft                              |
| GS       | rotating bodies                         | CH-47 helicopter                     | . space probes                                   |
|          | . rotors                                | H-25 helicopter                      | . solar probes                                   |
|          | tail rotors                             | EH-101 helicopter                    | Helios 2   |
|          | helicopter tail rotors                  |                                      | Helios 2   |
| RT       |   | TH-55 helicopter                     | Helies A   |
| KI       | helicopters                             | RT airborne radar approach           | Helios A   |
|          | rotary wings                            | ∞ aircraft                           | GS artificial satellites                         |
| 0        | ∘ rotor blades                          | aircraft survivability               | . Helios satellites                              |
|          |   | blade slap noise                     | Helios A   |
| helicon  | ter wakes                               |                                      | unmanned spacecraft                              |
|          | wakes                                   | blade-vortex interaction             |  |
| 00       |   | general aviation aircraft            | . space probes                                   |
|          | . aircraft wakes                        | ground resonance                     | solar probes                                     |
|          | helicopter wakes                        | helicopter control                   | Helios A   |
| RT       | downwash                                | helicopter design                    |  |
|          | helicopters                             |                                      | Helios B   |
|          | Troil option o                          | helicopter engines                   |  |
| haliaam  | toro.                                   | helicopter performance               | GS artificial satellites                         |
| helicop  |   | helicopter propeller drive           | . Helios satellites                              |
| DEF      | Rotorcraft that, for its horizontal mo- | helicopter tail rotors               | Helios B   |
| tion, de | epends principally on its engine-driven | helicopter wakes                     | unmanned spacecraft                              |
| rotors.  |   |                                      | . space probes                                   |
| UF       | drone helicopters                       | heliports                            |  |
| 01       | •                                       | ∞ military aircraft                  | solar probes                                     |
|          | gyroplanes                              | nap-of-the-earth navigation          | Helios B   |
| GS       | V/STOL aircraft                         | recovery vehicles                    |  |
|          | . rotary wing aircraft                  | rotor systems research aircraft      | Helios Project                                   |
|          | helicopters                             |                                      | GS programs                                      |
|          | Alouette helicopters                    | short takeoff aircraft               |  |
|          |   | ∞ subsonic aircraft                  | . NASA programs                                  |
|          | SA-330 helicopter                       | tilt rotor aircraft                  | NASA space programs                              |
|          | SE-3160 helicopter                      | Tilt Rotor Research Aircraft Program | Helios Project                                   |
|          | Bell 214A helicopter                    |                                      | . projects                                       |
|          | compound helicopters                    | utility aircraft                     | Helios Project                                   |
|          | S-67 helicopter                         | V-22 aircraft                        | •  |
|          |   | vertical takeoff aircraft            | . space programs                                 |
|          | H-17 helicopter                         | Weser aircraft                       | NASA space programs                              |
|          | heavy lift helicopters                  | Westland aircraft                    | Helios Project                                   |
|          | CH-62 helicopter                        | XV-15 aircraft                       | RT charged particles                             |
|          | light helicopters                       | AV-13 dilClait                       | high temperature plasmas                         |
|          | OH-4 helicopter                         |                                      |  |
|          |   | Heliliner (helicopter)               | solar probes                                     |
|          | OH-5 helicopter                         | (added April 1997)                   | zodiacal light                                   |
|          | OH-6 helicopter                         | USE EH-101 helicopter                |  |
|          | OH-58 helicopter                        | OOL EN TOT HEREOPIES                 | Helios satellites                                |
|          | military helicopters                    |                                      | GS artificial satellites                         |
|          | AH-1G helicopter                        | Helio aircraft                       | . Helios satellites                              |
|          |   | UF Helio military aircraft           |  |
|          | AH-1S helicopter                        | GS Helio aircraft                    | Helios 1   |
|          | AH-1W helicopter                        | . U-10 aircraft                      | Helios 2   |
|          | AH-63 helicopter                        |                                      | Helios A   |
|          | AH-64 helicopter                        | RT ∞ aircraft                        | Helios B   |
|          | BO-105 helicopter                       |                                      | RT magnetic fields                               |
|          | CH-3 helicopter                         | Helio military aircraft              | 3  |
|          | •                                       | USE Helio aircraft                   | particle flux density                            |
|          | CH-21 helicopter                        | 002                                  | solar flux density                               |
|          | CH-34 helicopter                        |                                      |  |
|          | CH-46 helicopter                        | heliocentric orbits                  | helioseismology                                  |
|          | CH-47 helicopter                        | USE solar orbits                     | UF solar dynamics                                |
|          | CH-54 helicopter                        |                                      | ,  |
|          |   | heliographs                          | solar seismology                                 |
|          | CH-62 helicopter                        | USE spectroheliographs               | GS seismology                                    |
|          | H-19 helicopter                         | USE spectronellographs               | . asteroseismology                               |
|          | H-43 helicopter                         |                                      | helioseismology                                  |
|          | H-53 helicopter                         | heliography                          | RT astrophysics                                  |
|          | H-54 helicopter                         | USE spectroheliographs               | ∞ science  |
|          |   |                                      |  |
|          | H-56 helicopter                         | haliamaamatiam                       | solar interior                                   |
|          | H-60 Helicopter                         | heliomagnetism                       | solar physics                                    |
|          | HC-3 helicopter                         | USE solar magnetic field             |  |
|          | HH-43 helicopter                        |                                      | heliosphere                                      |
|          | HH-65 helicopter                        | heliometers                          | DEF The region around the sun whose              |
|          |   | UF heliometry                        |  |
|          | OH-4 helicopter                         |                                      | plasma processes are dominated by solar wind.    |
|          | OH-5 helicopter                         | GS measuring instruments             | RT cosmic rays                                   |
|          | OH-6 helicopter                         | . heliometers                        | interplanetary space                             |
|          | OH-13 helicopter                        | pyroheliometers                      | interstellar gas                                 |
|          | OH-23 helicopter                        | optical equipment                    | SOHO Mission                                     |
|          |   | . heliometers                        |  |
|          | OH-58 helicopter                        |                                      | solar activity effects                           |
|          | P-531 helicopter                        | pyroheliometers                      | solar wind                                       |
|          | QH-50 helicopter                        | telescopes                           |  |
|          | S-67 helicopter                         | heliometers                          | heliostats                                       |
|          | SA-321 helicopter                       | pyroheliometers                      | DEF Instruments consisting of mirrors            |
|          |   | 1.7                                  |  |
|          | SA-330 helicopter                       | h - li tm .                          | moved by clockwork for reflecting the sun's rays |
|          | SH-3 helicopter                         | heliometry                           | in a fixed direction.                            |
|          | SH-4 helicopter                         | USE heliometers                      | RT ∞ instruments                                 |
|          | Sikorsky Whirlwind helicopter           | pyroheliometers                      | mirrors  |
|          | UH-1 helicopter                         | L)                                   | reflectors                                       |
|          |   | Helian 4                             |  |
|          | UH-2 helicopter                         | Helios 1                             | servomotors                                      |
|          | UH-34 helicopter                        | GS artificial satellites             | solar reflectors                                 |
|          | UH-60A helicopter                       | . Helios satellites                  | synchronizers                                    |
|          | UH-61A helicopter                       | Helios 1                             | •          |
|          | Westland Whirlwind helicopter           | unmanned spacecraft                  | heliotrons                                       |
|          | vvestianu vviiinwinu nelicoptei         | unmanneu spacecialt                  |  |
|          | V) / O A = :=                           |                                      |  |
|          | XV-9A aircraft rigid rotor helicopters  | . space probes solar probes          | (added September 1988)<br>GS nuclear reactors    |

pressure suits

. heliotrons ∞ Helmholtz equations plasma control helium ions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) stellarators GS ions helium ions heliports RT alpha particles RT ∞ equations An area of land, water, or structure helium Helmholtz vorticity equation used, or intended to be used, for the landing and Kelvin-Helmholtz instability takoff of helicopters. helium isotopes time dependence GS airports helium 2 wave equations heliports helium 3 air traffic control helium 4 Helmholtz resonators airport planning An enclosure having a small opening chemical elements airport towers . nuclides consisting of a straight tube of such dimensions hangars that the enclosure resonates at a single fre-. . isotopes helicopters quency determined by the geometry of the reso-... helium isotopes landing aids nator. . rare gases landing sites GS resonators . . helium military air facilities Helmholtz resonators .. helium isotopes navigation aids gases cavity resonators solar compasses . rare gases noise reduction V/STOL aircraft . . helium ... helium isotopes Helmholtz vorticity equation helitrons analysis (mathematics) real variables GS electron tubes helium plasma . vacuum tubes . . differential equations GS particles . . microwave tubes ... partial differential equations . charged particles ... traveling wave tubes .... Helmholtz vorticity equation . . energetic particles . . . . backward wave tubes ... vorticity equations ... plasmas (physics) . . helitrons Helmholtz vorticity equation helium plasma microwave equipment equations of motion . corpuscular radiation . microwave tubes . kinetic equations . . energetic particles . . traveling wave tubes ... hydrodynamic equations . . . plasmas (physics) . . . backward wave tubes Helmholtz vorticity equation ... helium plasma ... helitrons flow equations argon plasma RT carcinotrons . vorticity equations electron plasma Helmholtz vorticity equation hydrogen plasma helium RT ∞ equations oxygen plasma chemical elements ∞ Helmholtz equations . rare gases vorticity . . helium helium stars . . . helium isotopes USE B stars HELOS (satellite) ... liquid helium USE Exosat satellite . . . . liquid helium 2 helium-neon lasers gases stimulated emission devices GS hematite . rare gases . lasers A common iron mineral; ferric oxide. . . helium . . gas lasers chalcogenides . . . helium isotopes . helium-neon lasers . oxides . . . liquid helium laser modes . . metal oxides . liquid helium 2 laser outputs . . . iron oxides alpha particles . hematite helium afterglow helium-oxygen atmospheres iron compounds helium atoms controlled atmospheres . iron oxides helium film . helium-oxygen atmospheres . . hematite helium ions aerospace environments minerals Wolf-Rayet stars ∞ atmospheres . iron ores ∞ breathing .. hematite helium 2 gas mixtures USE helium isotopes hematocrit portable life support systems liquid helium underwater breathing apparatus RT blood blood cell count helium 3 blood circulation helix tubes USE helium isotopes blood flow USE traveling wave tubes blood plasma helium 4 blood volume USE helium isotopes Hellmann-Feynman theorem erythrocytes theorems hematology helium afterglow Hellmann-Feynman theorem hemoglobin afterglows GS helium afterglow helmet mounted displays hematocrit ratio gas ionization HMD (displays) ratios GS helium GS display devices . hematocrit ratio plasma decay . helmet mounted displays anemias RT crew workstations blood cell count helium atoms ∞ detectors erythrocytes atoms images hematology helium atoms indicating instruments helium ∞ instruments hematology monitors blood cell count helium compounds personnel carboxyhemoglobin test RT ∞ rare gas compounds hematocrit helmets hematocrit ratio helium film GS clothing reticulocytes RT ∞ films . protective clothing helium . helmets hematopoiesis helium hydrogen atmospheres safety devices cytogenesis

. helmets

flight clothing

armor

goggles

.... helium hydrogen atmospheres

. fusion reactors

environments

. extraterrestrial environments

. . planetary environments . . . planetary atmospheres

hematopoiesis

blood cell count

blood cells

blood

# hematopoietic system

bone marrow cardiovascular system cells (biology) physiological effects radiation effects hematopoietic system RT angiogenesis blood cells blood volume bone marrow cardiovascular system physiological effects systems

#### hematuria

GS signs and symptoms hematuria RT urine

#### hemisphere cylinder bodies

RT ∞ cylinders cylindrical bodies hemispherical shells pressure vessels

#### 

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) aerodynamic configurations bodies of revolution Eastern Hemisphere hemispherical shells Northern Hemisphere Southern Hemisphere

# hemispherical shells

spheres

shells (structural forms) GS hemispherical shells

bodies of revolution

circular shells

domes (structural forms) hemisphere cylinder bodies

∞ hemispheres metal shells reinforced shells spheres spherical shells

# hemocytes

GS cells (biology) . blood cells . hemocytes

# invertebrates hemodynamic responses

physiological effects

. physiological responses

. hemodynamic responses responses

. physiological responses

. hemodynamic responses

baroreflexes blood circulation blood pressure head down tilt head up tilt tilt-table test

# hemodynamics

hemodynamics

lower body negative pressure blood circulation blood volume cardiovascular system

∞ dynamics heart function hemoperfusion physiology

# hemoglobin

GS biopolymers . proteins

. hemoglobin

... carboxyhemoglobin . . . oxyhemoglobin

organic compounds . proteins

.. hemoglobin

. . . carboxyhemoglobin . . oxyhemoglobin organometallic compounds

. hemoglobin

. . carboxyhemoglobin

. . oxyhemoglobin RT

anemias blood blood cell count blood cells cells (biology) erythrocytes hematocrit hemolysis polycythemia

porphines porphyrins reticulocytes

#### hemolysis

RT complement (biology) erythrocytes hemoglobin polycythemia reticulocytes

#### hemoperfusion

Type of poison treatment in which the patient's blood is passed over a bed of absorbent material (activated carbon, resin, etc.) to remove the toxin from the bloodstream.

activated carbon adsorbents blood flow blood pressure hemodynamics toxicology

# hemorrhages

GS hemorrhages petechia RT ∞ bleeding blood

cardiovascular system

coagulation hemostatics hypotension injuries pathology polycythemia reticulocytes

# hemostasis

USE hemostatics

#### hemostatics UF

hemostasis GS drugs hemostatics RT blood coagulation

fibrinogen gibberellins hemorrhages thrombin thromboplastin vasopressins

# HEMT (electronics)

USE high electron mobility transistors

# Henry law

composition (property) partial pressure Raoult law solubility solutions vapor pressure

#### **HEOS A satellite**

GS artificial satellites . ESA satellites . . HEOS satellites HEOS A satellite ESA spacecraft . ESA satellites

. . HEOS satellites

... HEOS A satellite

# **HEOS B satellite**

GS artificial satellites

. ESA satellites . . HEOS satellites . HEOS B satellite ESA spacecraft . ESA satellites . . HEOS satellites ... HEOS B satellite

# **HEOS** satellites

Highly Eccentric Orbit satellites artificial satellites . ESA satellites .. HEOS satellites . . . HEOS A satellite . . . HEOS B satellite ESA spacecraft
. ESA satellites
. HEOS satellites ... HEOS A satellite . HEOS B satellite

RT European space programs

# heparins

RT anticoagulants

solar orbits

DEF An inflammation of the liver, commonly of viral origin, but also associated with other diseases.

GS diseases

. infectious diseases

. hepatitis

acquired immunodeficiency syndrome anatomy

viral diseases

# heptadiene

GS organic compounds . hydrocarbons . . aliphatic hydrocarbons . . . dienes

# . . . . heptadiene

#### heptanes

GS organic compounds hydrocarbons . . aliphatic hydrocarbons . . . alkanes . . heptanes RT hydrocarbon fuels

Chemical agents used for the eradication of undesirable plants or for the inhibition of their growth.

brush (botany) defoliants foliage forests leaves plants (botany) toxicity trees (plants)

# Herbig-Haro objects

DEF Celestial objects having many of the characteristics of a T Tauri star (e.g., their spectra show a weak continuum with strong emission lines), believed to be stars in the very early stages of development. All known Herbig-Haro objects have been found within the boundaries of dark clouds. These strong infrared sources are characterized by mass loss.

GS celestial bodies . nebulae

#### . Herbig-Haro objects RT B stars

∞ bodies infrared sources (astronomy) infrared stars stellar radiation

stellar spectra

T Tauri stars ... Herzberg bands ... xanthines RT ∞ bands . . . . . caffeine Hercules aircraft oxygen spectra . . . . . guanines USE C-130 aircraft Schumann-Runge bands . . uric acid ultraviolet spectra ... pyridines Hercules engine pyridoxine GS engines . . pyrimidines Herzegovina . rocket engines (added June 1996) alloxan . . solid propellant rocket engines USE Bosnia and Herzegovina ... thymidine . Hercules engine . . . . thymine Honest John rocket vehicle Hessian matrices . . . . uracil DEF Given a real value function of N vari-Little John rocket vehicle indoles ables, an N by N symmetric of all second order . . . RDX Hercules nova partial derivatives. retinene GS celestial bodies GS algebra riboflavin . stars . vector spaces tetracyclines . . variable stars . . matrices (mathematics) tetrazoles . . . novae . Hessian matrices thiamine ... Hercules nova RT algorithms thiazine (trademark) dwarf novae optimization thiophenes tocopherol heredity **HET** experiment . . . trimethadione breeding (reproduction) Health-Education Telecommunications . . . . tryptamines congenital anomalies ехр . . . . tryptophan cytogenesis GS telecommunication . . . . . melatonin evolution (development) teleconferencing . . . . serotonin . HET experiment . . imidazoles Hering-Brever reflex RT ATS 6  $RT \propto chemical \ compounds$ reflexes communication satellites . respiratory reflexes satellite networks heterodyning Hering-Brever reflex DEF Mixing two radio signals of different frequencies to produce a third signal which is of lower frequency; i.e., to produce beating.

GS heterodyning heart rate heterocyclic compounds organic compounds Hermes manned spaceplane . cyclic compounds GS manned spacecraft . optical heterodyning heterocyclic compounds space shuttles autodynes ... acriflavine RT . Hermes manned spaceplane ... adenosines demodulation reentry vehicles . adenosine diphosphate intermediate frequency amplifiers . recoverable spacecraft . . . . adenosine monophosphate mixing circuits . . reusable spacecraft adenosine triphosphate superheterodyne receivers . . . space shuttles . . . . cyclic AMP ... Hermes manned spaceplane . . . alkaloids heterogeneity French space program ... atropine DEF Having different properties at different space transportation system . . . . betaines points spacecraft design . . . . caffeine RT deviation colchicine impurities Hermes satellite inclusions . . . . ergotamine Communications Technology USE inhomogeneity range (extremes) . hyoscine Satellite . . . lysergine . morphine sampling hermetic seals . . . nicotinamide standard deviation seals (stoppers) GS nicotine statistical tests hermetic seals . . . . pilocarpine variability RT ∞ headers reserpine variance (statistics) labyrinth seals . . . strychnine O ring seals . tropyl compounds heterojunction devices pump seals DEF Electronic devices utilizing junctions . . . anisole ascorbic acid between different semiconducting materials. Hermitian polynomial algebra . . . azines The characteristics and performance of the de-GS . cyanurates . polynomials vices are dependent on the relative lineup of the . . . . cyanuric acid energy bands at the junctions. . Hermitian polynomial . . . . meclizine GS electronic equipment Jacobi matrix method methylene blue . solid state devices matrices (mathematics) . phenothiazines . . semiconductor devices real variables . . . azoles ... heterojunction devices vector spaces . . . . acetazolamide .... high electron mobility transistors **HERO Reactor** oxazole . MODFETS . . . . pyrroles band structure of solids GS nuclear reactors . nuclear research and test reactors . . carbazoles distributed feedback lasers .. HERO Reactor azulene gallium arsenides bioflavonoids homojunctions Hertzsprung-Russell diagram biotin ITO (semiconductors) HR diagram carnitine junction diodes diagrams cyanocobalamin modulation doping . Hertzsprung-Russell diagram cytidylic acid quantum efficiency asymptotic giant branch stars dimenhydrinate quantum well lasers color-color diagram endrin quantum wells color-magnitude diagram ethylene oxide semiconductor junctions solar energy conversion waveguide lasers horizontal branch stars folic acid stellar evolution furans . tetrahydrofuran stellar luminosity guanethidine heterojunctions stellar spectra HMX DEF Junctions between semiconductors that differ in their doping level conductivities, and Herzberg bands . . . nicotinic acid phthalocyanin also in their atomic or alloy compositions. GS spectra . radiation spectra . . . phylloquinone GS semiconductor junctions piperidine

. . promethazine

. . . purines

... adenines

. . absorption spectra

. . . Herzberg bands

. . absorption spectra

. spectral bands

. heterojunctions

modulation doping

homojunctions

junction diodes

quantum cascade lasers quantum wells silicon junctions solar cells thin films tunnel junctions

#### heterophoria

exophoria UF RT vision

# heterosphere

The upper portion of a two part division of the atmosphere according to the general homogeneity of atmospheric composition; the layer above the homosphere. The heterosphere is characterized by variation in composition and mean molecular weight of constituent gases. This region starts at 80 to 100 kilometers above the Earth, and therefore closely coincides with the ionosphere and the thermosphere.

GS Earth atmosphere heterosphere environments heterosphere chemosphere Earth ionosphere Earth magnetosphere exosphere lower atmosphere middle atmosphere thermosphere upper atmosphere

# heterotrophs

animals RT autotrophs metabolism plants (botany)

#### heuristic methods

RT automata theory computer programming greedy algorithms ∞ methodology simulation sorting algorithms

# **HEUS** rocket engines

GS engines

. rocket engines

. HEUS rocket engines

rocket engine control rocket vehicles

# **Hewlett-Packard computers**

GS data processing equipment

. computers

. . digital computers

... Hewlett-Packard computers

# hexadiene

GS organic compounds

. hydrocarbons

. . aliphatic hydrocarbons

.... hexadiene

# hexagonal cells

RT ∞ cells

crystal lattices honeycomb structures

# hexagons

#### GS

geometry

Euclidean geometry

. . polygons

... hexagons

# hexahedrite

magnesium compounds . magnesium sulfates

. hexahedrite

minerals

. hexahedrite sulfur compounds

. sulfates

. . magnesium sulfates

... hexahedrite

# hexamethonium

RT ammonium compounds anticonvulsants

#### hexamethylenetetramine

GS organic compounds

amines

. . hexamethylenetetramine

# hexanitrostilbene

HNST RT stilbene

#### hexenes

organic compounds . hydrocarbons . . aliphatic hydrocarbons . . . alkenes ... hexenes cyclohexane

hydrocarbon fuels

# Hexogenes (trademark)

GS acids

carboxylic acids

Hexogenes (trademark)

organic compounds

. carboxylic acids ... Hexogenes (trademark)

#### hexokinase

GS biopolymers proteins . . enzymes . . hexokinase organic compounds . proteins . . enzymes

#### hexoses

GS organic compounds . carbohydrates . . sugars . . . monosaccharides . . . . hexoses . . . . . galactose . . . . . glucose

... hexokinase

# hexyl compounds

GS alkyl compounds hexyl compounds RT ∞ chemical compounds

# **HF** lasers

hydrogen fluoride lasers GS stimulated emission devices . lasers . . gas lasers . HF lasers chemical lasers

infrared lasers

TEA lasers

HFB-320 aircraft Hamburger HFB-320 aircraft Hamburger aircraft
. HFB-320 aircraft jet aircraft HFB-320 aircraft monoplanes HFB-320 aircraft passenger aircraft . HFB-320 aircraft transport aircraft

RT ∞ aircraft

HFIR

USE high flux isotope reactors

HFB-320 aircraft

HFIR (reactor)

USE high flux isotope reactors

# HH-43 helicopter

HH-43B helicopter UF Huskie helicopter GS Kaman aircraft . HH-43 helicopter utility aircraft HH-43 helicopter V/STOL aircraft . rotary wing aircraft . . helicopters ... military helicopters .... HH-43 helicopter

HH-43B helicopter USE HH-43 helicopter

# HH-65 helicopter

(added August 1995) GS V/STOL aircraft . rotary wing aircraft . . helicopters ... military helicopters ... HH-65 helicopter  $RT \, \infty \, aircraft$ rescue operations

HHX helicopter

USE H-53 helicopter

# hibernation

RT adaptation thermoregulation

HICAT (radar technique)

USE high resolution coverage antennas

HICAT project

USE high resolution coverage antennas

#### hierarchies

classifications GS . hierarchies . . BBGKY hierarchy . . dichotomies

# Higgs bosons

(added April 1994) GS particles

. elementary particles

. . bosons

... Higgs bosons . nuclear particles

. . bosons

.. Higgs bosons

RT broken symmetry electroweak model particle theory

# high acceleration

GS rates (per time)

. acceleration (physics)

. high acceleration

RT ∞ acceleration acceleration stresses (physiology) acceleration tolerance

electron runaway (plasma physics) mechanical shock

∞ motion

shock resistance

#### high alt target and background measurement

UF HITAB program RT ∞ measurement target acquisition

# high altitude

high altitude flight altitude GS . high altitude midaltitude skyhook balloons upper atmosphere

#### high altitude balloons

GS expandable structures . inflatable structures . . balloons

... high altitude balloons

. . . . jimsphere balloons skyhook balloons . . . superpressure balloons

RT balloon-borne instruments gas bags meteorological balloons

ROBIN balloons

rockoons

#### high altitude breathing

GS respiration

high altitude breathing

altitude tolerance

 $\infty$  breathing

emergency life sustaining systems hypobaric atmospheres oxygen masks

#### high altitude environments

GS environments

high altitude environments

altitude simulation altitude tests altitude tolerance escape capsules hypobaric atmospheres low pressure low temperature environments mountain inhabitants thermal vacuum tests timberline vacuum chambers

high altitude flight USE flight high altitude

# high altitude nuclear detection

detection GS

high altitude nuclear detection space surveillance (spaceborne) Vela satellites

# high altitude pressure

pressure

. low pressure

. high altitude pressure

altitude tolerance atmospheric pressure hypobaric atmospheres vacuum chambers

high altitude sounding projectile USE WASP sounding rocket

# high altitude tests

GS altitude tests

high altitude tests

background radiation environmental tests Fishbowl Operation flight tests full scale tests test vehicles ∞ tests

Vela satellites

high aspect ratio

GS ratios

. aspect ratio

... high aspect ratio

high aspect ratio wings USE **slender wings** 

#### high current

electric current GS . high current high voltages plasma currents

#### high definition television

(added August 1990) HDŤV

GS television systems

. high definition television

communication equipment digital television high resolution image resolution imaging techniques television transmission video communication video data

# high dispersion spectrographs

measuring instruments

. optical measuring instruments

. . photometers

. . . ultraviolet spectrometers

. . . . high dispersion spectrographs

. radiation measuring instruments

. . actinometers

... ultraviolet detectors

. . . . ultraviolet spectrometers

..... high dispersion spectrographs

. . photometers

. . . ultraviolet spectrometers

.... high dispersion spectrographs

. spectrometers

. . ultraviolet spectrometers

high dispersion spectrographs optical equipment

. optical measuring instruments

. . photometers

. . . . high dispersion spectrographs

spectrographs

high dispersion spectrographs

ultraviolet spectra

High Eccentric Lunar Occultation Satellite **USE** Exosat satellite

# high electron mobility transistors

(added November 1992)

DEF A recently developed field effect transistor based on the technique of modulation doping of GaAs/Al(x)Ga(1-x) as heterojunctions. This technique achieves high mobility in part by introducing carriers into high purity GaAs from donor ions in an adjacent A1GaAs layer, the electrons and ions being separated by the built-in heterojunction potential. Used for HEMT (electronics)

UF HEMT (electronics) electronic equipment

. solid state devices

. . semiconductor devices

... heterojunction devices

.... high electron mobility transistors

.. MODFETS

. . . transistors

.... high electron mobility transistors

.... MODFETS

RT cascode devices electron mobility field effect transistors indium aluminum arsenides modulation doping

High Energy Astronomy Observatories USE **HEAO** 

High Energy Astronomy Observatory 1 ŬSE HÉAO 1

High Energy Astronomy Observatory 2 USE **HEAO 2** 

High Energy Astronomy Observatory 3 USE HEAO 3

High Energy Astronomy Observatory 4 (added May 1997) USE HEAO 4

High Energy Astronomy Observatory A

High Energy Astronomy Observatory B USE HEAO 2

High Energy Astronomy Observatory C USE **HEAO 3** 

High Energy Astronomy Observatory D (added May 1997) USE HEAO 4

# high energy electrons

particles GS

. charged particles

. . energetic particles

. . . electrons

.... high energy electrons

. . . . relativistic electron beams

. corpuscular radiation

. . energetic particles

... electrons

. . . . high energy electrons

. . . . relativistic electron beams

. elementary particles

. . fermions

...leptons . . . . ėlectrons

. . . . high energy electrons

. relativistic electron beams

RT SCATHA satellite

# high energy fuels

(HEAT CONTENT GREATER THAN OR EQUAL TO APPROXIMATELY 25,000

HEF (high energy fuels)

GS fuels

. chemical fuels

. high energy fuels

additives

boron compounds

catalysts

cryogenic rocket propellants

hybrid propellants

hydrocarbon fuels

# high energy interactions

GS particle interactions

. elementary particle interactions

.. high energy interactions

. . strong interactions (field theory)

RT annihilation reactions beam interactions fission products

∞ interactions

nuclear explosions nuclear fission nuclear fusion

nuclear interactions nuclear radiation nuclear reactions

nuclear research pair production

particle production Pomeranchuk theorem proton-antiproton interactions

thermonuclear reactions vector dominance model

# high energy oxidizers

GS oxidizers

high energy oxidizers

rocket oxidizers

# high energy propellants

propellants

high energy propellants

. Domino propellants cryogenic rocket propellants gaseous rocket propellants hybrid propellants

liquid rocket propellants

high field magnets HF supermagnets GS magnets

. electromagnets

. high field magnets superconducting magnets

# high flux beam reactors

RT nuclear reactors

high flux isotope reactors

UF **HFIR** HFIR (reactor)

GS nuclear reactors high flux isotope reactors

RT neutron flux density

# high frequencies

(3 - 30 MHZ) frequencies

. radio frequencies

.. high frequencies

RT decametric waves RT free-space optical communication supersonic speed intermediate frequencies glass lasers high speed cameras laser fusion low frequencies maximum usable frequency laser outputs GS optical equipment . cameras ring discharge optical communication short wave radiation .. high speed cameras short wave radio transmission . framing cameras high pressure toroidal discharge photographic equipment pressure . cameras high pressure high gain .. high speed cameras anticyclones GS amplification . framing cameras critical pressure high gain RT ballistic cameras degenerate matter antenna gain frame photography hyperbaric chambers pilot induced oscillation high speed photography low pressure power gain rotating mirrors supercritical pressures transfer functions streak photography transition pressure stroboscopes vacuum high gravity (acceleration) USE high gravity environments high speed flight high pressure oxygen USE flight high gravity environments gases high speed high gravity (acceleration) . compressed gas . high pressure oxygen high speed photography hypergravity fire prevention GS imagery GS environments oxygen . high gravity environments . photography . high speed photography
RT high speed cameras pressure rates (per time) . acceleration (physics) spacecraft cabin atmospheres . high gravity environments photographic recording  $RT \, \infty \, acceleration$ high Q high speed transportation centrifuges ŬSE Q factors extraterrestrial environments USE rapid transit systems gravitation ∞ high resistance high strength human centrifuges (USE OF A MORE SPECIFIC TERM IS GS mechanical properties microgravity RECOMMENDED--CONSULT THE TERMS LISTED BELOW) high strength rotating environments compressive strength chemical properties shear strength electrical resistance high impulse strength impulses flow resistance GS tensile strength high impulse mechanical properties tensile stress RT ∞ force ∞ physical properties yield strength propulsion ∞ resistance ruggedness high intensity lasers high strength alloys thermal resistance USE high power lasers GS alloys . high strength alloys high resolution . . Astroloy (trademark) high latitudes GS resolution **USE** polar regions . . high strength steels high resolution . . maraging steels accuracy high level languages aluminum-lithium alloys angular resolution DEF Computer languages whose instructensile properties high definition television tions or statements each correspond to several precision machine language instructions. high strength steels spatial resolution higher order languages low alloy steels languages alloys . programming languages high resolution coverage antennas . high strength alloys . . high level languages HICAT (radar technique) . . high strength steels HICAT project . Ada (programming language) . maraging steels ... C (programming language) . iron alloys antennas ... C++ (programming language) . high resolution coverage . . Java (programming language) ... high strength steels antennas communication theory radar antennas . . . maraging steels language programming radar resolution carbon steels symbols resolution high temperature high melting compounds GS temperature high Reynolds number USE refractory materials high temperature (RN ABOVE 3,000) sialon A Reynolds number above the critical high pass filters

DEF Wave filters having a single transmistemperature measurement Reynolds number of a sphere. GS dimensionless numbers sion band extending from some critical or cutoff high temperature air . Reynolds number frequency, not zero, up to infinite frequency. hot air ... high Reynolds number bandstop filters GS gases electric filters . gas mixtures . Reynolds number electromagnetic wave filters . high Reynolds number ∞ filters . high temperature air low Reynolds number microwave filters . high temperature gases optical filters high temperature air high speed high temperature fluids high speed flight high polymers . high temperature gases rates (per time) RT ∞ polymers .. high temperature air . high speed mixtures high power lasers velocity . solutions high speed DEF Stimulated emission devices having . . gas mixtures airspeed high energy flux density outputs. Used for high . . . air intensity lasers. escape velocity .... high temperature air high intensity lasers ground speed stimulated emission devices hypersonic speed high temperature alloys

landing speed

rotor speed

light speed relativistic velocity

USE heat resistant alloys

high temperature environments

GS environments

. lasers

. . high power lasers . . . Nova Laser System

. . . Shiva laser system

. high temperature environments dry heat heat acclimatization lunar temperature thermal environments thermal fatigue high temperature fatigue USE thermal fatigue high temperature fluids high temperature fluids . high temperature gases . high temperature air RT ∞ fluids hydraulic fluids plasmas (physics) working fluids high temperature gas cooled reactors HTGR GS nuclear reactors . gas cooled reactors . . high temperature nuclear reactors ... high temperature gas cooled reactors . nuclear research and test reactors . . high temperature nuclear reactors ... high temperature gas cooled reactors RT nuclear power reactors high temperature gases hot gas systems hot gases hot jet exhaust GS gases . high temperature gases . high temperature air high temperature fluids . high temperature gases . high temperature air combustion products exhaust emission ionized gases pneumatic probes rarefied gases shock wave propagation high temperature lubricants lubricants high temperature lubricants gas bearings gas lubricants thermal resistance USE refractory materials high temperature nuclear reactors Los Alamos Turret Reactor UHTREX (nuclear reactors) nuclear reactors . gas cooled reactors . . high temperature nuclear reactors ... high temperature gas cooled

high temperature materials

reactors

. nuclear research and test reactors

. . high temperature nuclear reactors

... high temperature gas cooled reactors

nuclear propulsion reactor design reactor technology ∞ reactors

high temperature plasmas

hot plasmas particles

. charged particles

. . energetic particles

... plasmas (physics)

. high temperature plasmas

. corpuscular radiation . . energetic particles

. . . plasmas (physics)

. high temperature plasmas

Boltzmann-Vlasov equation

collisional plasmas dense plasmas electron plasma Helios Project relativistic plasmas strongly coupled plasmas thermal plasmas

# high temperature propellants

GS propellants

high temperature propellants

RT electrothermal engines gelled propellants gelled rocket propellants ion propulsion nuclear propulsion plasma engines solid propellants storable propellants

# high temperature research

research GS

high temperature research

RT plasma generators refractory materials

# high temperature superconductors

(added December 1992)

DEF New superconducting materials consisting of mixed metal oxide ceramics that maintain their superconductivity at higher temperature ranges (above 24 K) than the more traditional superconductors.

HTSC (superconductors)

conductors

. superconductors (materials)

#### .. high temperature superconductors

BSCCO superconductors

. . YBCO superconductors

barium oxides

ceramics critical temperature cryogenic gyroscopes cryogenic magnets cryogenics electrical resistivity

Josephson junctions liquid nitrogen low temperature physics

metal oxides

mixed oxides

operating temperature SIS (superconductors) strontium oxides

superconducting magnets

superconducting power transmission superconductivity

yttrium oxides

# high temperature tests

heat tests

GS environmental tests

high temperature tests

bomb calorimeters calorimeters

chemical tests cold strength

cold weather tests

cryostats

drop calorimeters flame calorimeters hardness tests lubricant tests

∞ materials tests melting points

nondestructive tests temperature control

∞ tests

thermal expansion thermal resistance thermal shock

thermal stability

thermodynamic properties

transport properties

# high thrust

thrust GS

high thrust

RT iet thrust low thrust rocket thrust thrust augmentation variable thrust

#### high vacuum

pressure . vacuum

high vacuum

cold welding low vacuum molecular shields residual gas space manufacturing ultrahigh vacuum vacuum apparatus vacuum tests

# **High Vacuum Orbital Simulator**

HIVOS (simulator)

GS simulators

. environment simulators

. . space simulators

... High Vacuum Orbital Simulator

space environment simulation

high velocity oxy-fuel spraying (added July 2001)

USE HVOF thermal spraying

high velocity oxygen fuel thermal spraying (added July 2001)

USE HVOF thermal spraying

# high voltages

GS potential energy . electric potential high voltages electric current high current

higher order languages USE high level languages

DEF A general term for large areas of elevated or mountainous land standing prominently above adjacent low areas; mountainous regions.

Colorado Plateau (US) mesas mountains plateaus topography

Highly Eccentric Orbit satellites USE **HEOS** satellites

# highly maneuverable aircraft UF HIMAT

RT airborne/spaceborne computers

∞ aircraft aircraft maneuvers automatic flight control

automatic pilots computerized simulation

fighter aircraft flight characteristics

flight tests remotely piloted vehicles

# highways

GS roads

. highways

air bag restraint devices bridges (structures) construction crashes intersections pavements ramps (structures) rapid transit systems regional planning streets transportation

transportation networks

urban planning . natural satellites swivels . . Jupiter satellites H-II orbiting plane HIP (process) . Himalia USE hot isostatic pressing USE HOPE aerospace plane RT Jupiter (planet) hijacking Hipparcos satellite HIMAT DEF An ESA astrometric satellite to determine trigonometric parallaxes, proper motions, and positions of 100,000 stars, mainly for stars USE air piracy USE highly maneuverable aircraft Hilbert space hindcasting brighter than magnitude 10. The satellite was launched in August 1989. GS algebra (added July 1999) . vector spaces DEF The process of reconstructing the time GS artificial satellites .. Banach space and space evolution of an atmospheric or oce-... Hilbert space . ESA satellites anic phenomenon that has occurred in the past, . . . Sobolev space . Hipparcos satellite through an analysis of historical data, a analysis (mathematics) ESA spacecraft . ESA satellites mathematical-model simulation of the pro-. function space cesses involved, or a combination of data analy-. . Banach space . Hipparcos satellite sis and modeling. ... Hilbert space GS predictions astrometry . . Sobolev space hindcasting European space programs . functional analysis forecasting spaceborne astronomy . . Banach space stellar motions meteorological parameters Hilbert space stellar parallax nowcasting . . . Sobolev space geometry oceanographic parameters hippocampus weather forecasting . topology GS anatomy . nervous system . . metric space hindlimb suspension ... Hilbert space . . central nervous system (added June 2001) . . . . Sobolev space . . . brain Technique for limiting use, activity, or movement by immobilizing or restraining animal .... hippocampus Hilbert transformation by suspending from hindlimbs or tails. This GS analysis (mathematics) hippuric acid immobilization is used to simulate some effects . functional analysis GS acids of reduced gravity and study weightlessness . . integral transformations . amino acids physiology. . . . Hilbert transformation . hippuric acid UF hindlimb unloading organic compounds transformations (mathematics) GS immobilization . integral transformations . amino acids hindlimb suspension . . Hilbert transformation suspending (hanging) . . hippuric acid hindlimb suspension Hill curves His bundle aerospace medicine USE Hill method RT cardiac auricles atrophy bioastronautics cardiac ventricles Hill determinant electrophysiology bone demineralization gravitational physiology GS analysis (mathematics) heart diseases Hill determinant heart function head down tilt differential equations nerves head up tilt eigenvalues hypodynamia Mathieu function hiss hypokinesia Random noise in the audiofrequency limbs (anatomy) Hill lunar theory range, having subjective characteristics analotilt-table test Earth orbits gous to prolonged sibilant sounds. weightlessness simulation orbital mechanics electromagnetic interference perturbation theory . radio frequency interference hindlimb unloading ∞ theories . . electromagnetic noise (added June 2001) ... atmospherics USE hindlimb suspension Hill method . . . ionospherics Hill curves . . . . . hiss RT Earth orbits hindrance USE constraints methodology histamines orbital mechanics GS drugs H-infinity control perturbation theory . histamines (added November 1992)
GS automatic control amines Hiller aircraft antihistaminics optimal control GS Hiller aircraft itching . H-infinity control . OH-5 helicopter optimization RT ∞ aircraft histidine optimal control GS acids . H-infinity control Hilsch tubes . amino acids vortex tubes control systems design . . histidine control theory RT coaxial flow organic compounds controllers cooling . amines feedback control heating . . histidine H-2 control ∞ tubes . amino acids linear parameter-varying control vortex generators . . histidine linear quadratic Gaussian control vortices histochemical analysis hinge moments Himalayas DEF In biochemistry, the analysis of chemilandforms USE torque GS cal components in tissues. . mountains RT bioassay hinged rotor blades . Himalayas biochemistry hinges RT Asia cells (biology) Bhutan rotary wings organic chemistry India tissues (biology) hingeless rotors Pakistan Sikkim USE rigid rotors histograms Tibet RT discrete functions hinges graphs (charts) Himalia UF hinged rotor blades normal density functions

hinges

nivots

flapping hinges

bearingless rotors

histology

medical science

. histology

GS

RT

(added July 1995)

GS celestial bodies

DEF A natural satellite of Jupiter, orbiting at a mean distance of 11,480,000 kilometers.

| RT                 | epithelium  | kin                 | ematics   |          | semiconductors (materials)                     |
|--------------------|---|---------------------|---|----------|--|
|                    | in vitro methods and tests                        | ve                  | ctor spaces   |          |  |
|                    | in vivo methods and tests morphology              | hodoscope           | ·s  | hole dis | stribution (mechanics)                         |
|                    | platelets   |                     | easuring instruments  |          | distribution (property)                        |
|                    | tissue engineering                                |                     | adiation measuring instruments                              |          | . hole distribution (mechanics)                |
|                    | tissues (biology)                                 |                     | hodoscopes  | RT       | cavities                                       |
| historie           | es.   |                     | ticoincidence detectors<br>diation counters                 | ~        | hole distribution                              |
| GS                 | histories   |                     | ntillating fibers   |          | holes (mechanics)<br>perforated shells         |
|                    | . case histories                                  | 001                 | Traileding libere   |          | porosity                                       |
| RT                 | documentation                                     | hogbacks            |   |          | stress concentration                           |
|                    | museums   | USE rid             | ges   |          | void ratio                                     |
|                    | paleontology<br>peacetime                         | hohlraums           |   |          |  |
|                    | records   |                     | radiation thermodynamics, cavities                          | hole ge  | ometry (mechanics)                             |
| I IITAD .          | 2 10 0 110 110                                    |                     | are in radiative equilibrium with the                       |          | The sizes, locations, and shapes of            |
| HITAB <sub>I</sub> | high alt target and background                    |                     | rgy with the cavity.  |          | ions created in materials.                     |
| 002                | measurement                                       |                     | ick body radiation<br>iissivity                             | RT       | fracture mechanics                             |
|                    |   | CII                 | iissivity   |          | holes (mechanics)<br>perforated plates         |
| HIV (vir<br>USE    | us)<br>human immunodeficiency virus               | Hohmann ti          | rajectories   |          | perforated shells                              |
| OOL                | numan inimunodenciency virus                      |                     | iptical orbits  |          | stress concentration                           |
|                    | (simulator)                                       | tra                 | nsfer orbits  |          | stress intensity factors                       |
| USE                | High Vacuum Orbital Simulator                     | Hohmann ti          | ransfer orbits  |          | structural analysis                            |
| HL-10 r            | eentry vehicle                                    |                     | iptical orbits  |          |  |
| GS                 | gliders   |                     | nsfer orbits  | hole mo  | obility  |
|                    | . HL-10 reentry vehicle                           |                     |   |          | electrical properties                          |
|                    | lifting bodies                                    | holders             | Idava   |          | . carrier mobility                             |
|                    | . lifting reentry vehicles HL-10 reentry vehicle  |                     | Iders<br>ame holders  |          | hole mobility                                  |
|                    | reentry vehicles                                  |                     | chors (fasteners)   |          | mobility . carrier mobility                    |
|                    | . maneuverable reentry bodies                     | ∞ ba                |   |          | . hole mobility                                |
|                    | lifting reentry vehicles                          | bo                  |   |          | transport properties                           |
| RT                 | HL-10 reentry vehicle<br>hypersonic gliders       |                     | ackets  |          | . carrier mobility                             |
| KI                 | hypersonic gliders                                | cia<br>clir         | mps<br>oe   | DT       | . hole mobility                                |
|                    | reentry vehicle                                   |                     | teners  | RT       | atomic mobilities charge carriers              |
| GS                 | lifting bodies                                    | jigs                |   |          | electromigration                               |
|                    | . lifting reentry vehicles HLD-35 reentry vehicle |                     | ches  |          | electron mobility                              |
|                    | reentry vehicles                                  | lug                 |   |          | holes (electron deficiencies)                  |
|                    | . maneuverable reentry bodies                     |                     | echanical devices<br>ts (fasteners)                         | ~        | solid state physics                            |
|                    | lifting reentry vehicles                          | pin                 |   |          |  |
| DT                 | HLD-35 reentry vehicle                            |                     | sitioning devices (machinery)                               | ∞ holes  |  |
| RT                 | hypersonic gliders                                | rive                |   | SN       | (USE OF A MORE SPECIFIC TERM IS                |
| HLLV               |   |                     | ews   |          | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     |
| USE                | heavy lift launch vehicles                        | ∞ spi<br>snl        | ines  | RT       | boreholes                                      |
| HMD (d             | lisplays)   |                     | aps   |          | cavities                                       |
| USE                | helmet mounted displays                           | stu                 | ids (structural members)                                    |          | coronal holes                                  |
| нмх                |   | zip                 | pers  |          | gaps holes (electron deficiencies)             |
| UF                 | cyclotetramethylene tetranitramine                | . holding           |   |          | holes (mechanics)                              |
|                    | tetranitrotetrazacyclooctane                      | ∞ holding<br>SN (US | SE OF A MORE SPECIFIC TERM IS                               |          | ,  |
| GS                 | explosives  | ŘΕ                  | COMMENDEDCONSULT THE TERMS                                  |          |  |
|                    | . HMX<br>nitrogen compounds                       |                     | TED BELOW)<br>nstraints                                     |          | electron deficiencies)<br>ed November 1991)    |
|                    | . azo compounds                                   | de                  |   | UF       | electron holes                                 |
|                    | HMX   |                     | aining  | GS       | charge carriers                                |
|                    | organic compounds                                 | sto                 | pping   |          | . holes (electron deficiencies)                |
|                    | . cyclic compounds                                | hole burnir         | na  | RT       | acceptor materials                             |
|                    | heterocyclic compounds HMX                        |                     | aser process that depletes, spatially                       |          | crystal defects<br>donor materials             |
|                    | propellants                                       |                     | , the electron/hole pair density in a                       |          | electrons                                      |
|                    | rocket propellants                                |                     | pace or frequency of high coherent                          |          | excitons                                       |
|                    | solid rocket propellants                          |                     | spatial hole burning and spectral respectively.             |          | hole distribution (electronics)                |
|                    | HMX<br>. solid propellants                        |                     | mputer storage devices                                      | ~        | hole mobility holes                            |
|                    | . solid propellants solid rocket propellants      |                     | lography  | ~        | majority carriers                              |
|                    | HMX   |                     | er applications   | ~        | materials                                      |
|                    | pyrotechnics                                      |                     | ers   |          | minority carriers                              |
|                    | . HMX   |                     | ing<br>emory (computers)                                    |          | order-disorder transformations                 |
| HNPF (             | Hallam Nuclear Power Facility)                    | 1110                | micry (compatoro)   |          | p-type semiconductors<br>semiconductor plasmas |
| USE                | Hallam Nuclear Power Facility                     |                     | oution  |          | semiconductors (materials)                     |
| HNST               |   |                     | SE OF A MORE SPECIFIC TERM IS<br>COMMENDEDCONSULT THE TERMS |          | Suhl effect                                    |
| USE                | hexanitrostilbene                                 |                     | TED BELOW)  |          | vacancies (crystal defects)                    |
|                    |   | RT cui              | rrent distribution  |          |  |
| HU-4 no            | elicopter   |                     | le distribution (electronics)                               | holos (r | nochanics)                                     |
|                    | OH-4 helicopter                                   | 110                 | le distribution (mechanics)                                 |          | nechanics)<br>ed September 1988)               |
|                    | elicopter   | hole distrib        | oution (electronics)  |          | cavities                                       |
| USE                | OH-5 helicopter                                   |                     | tribution (property)  |          | hole distribution (mechanics)                  |
|                    | elicopter   |                     | ole distribution (electronics)                              |          | hole geometry (mechanics)                      |
| USE                | OH-6 helicopter                                   |                     | arge distribution<br>rrent distribution                     | 04       | holes perforated plates                        |
| hodogr             | aphs  |                     | le distribution   |          | perforated shells                              |
| RT                 | Chaplygin equation                                | hol                 | les (electron deficiencies)                                 | 00       | perforation                                    |

porous boundary layer control wave diffraction automatic pilots white light holography beacons Holland guidance (motion) Netherlands USE holographic spectroscopy missile control spectroscopy proportional navigation ∞ hollow holographic spectroscopy radio direction finders (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Fourier transformation terminal guidance holography Low tract of land surrounded by hills or spectrum analysis homing devices wave front reconstruction UF seekers mountains; small sheltered valley or basin, esbeacons pecially in a rugged area. holographic subtraction guidance (motion) RT cavities DEF A holographic technique by which two infrared tracking  ${\scriptstyle \infty \, depression}$ dissimilar optical fields can be subtracted to laser guidance recesses yield only their difference. Used for self subtracmissiles hollow cathodes tion holography. navigation GS electrodes self subtraction holography navigation aids RT holography radio beacons . cathodes radio direction finders . hollow cathodes holography radio navigation tube cathodes The interferometry technique used to rendezvous quidance tunnel cathodes make three-dimensional pictures of surfaces. solar compasses One light beam illuminates a surface, and sets holmium trajectory control chemical elements up interference patterns with a reference beam. GS . rare earth elements GS imagery homodyne reception . . holmium . photography GS signal reception holography . . holmium isotopes homodyne reception . . . acoustical holography frequency synchronization metals . . . microwave holography radio reception . rare earth elements . . . speckle holography . . holmium . . white light holography homogeneity . . . holmium isotopes coherent electromagnetic radiation DEF Having the same properties at all holmium isotopes coherent light points. data storage chemical elements anisotropic media differential interferometry . nuclides homogenizing diffractive optics
Gabor transformation sampling . . isotopes statistical tests ... holmium isotopes hole burning . rare earth elements unity hologrammetry variance (statistics) . . holmium holographic interferometry holographic spectroscopy . . . holmium isotopes homogeneous turbulence metals turbulence holographic subtraction GS . rare earth elements . . holmium image correlators . homogeneous turbulence atmospheric turbulence fluctuation theory image reconstruction ... holmium isotopes kinoform isotropic turbulence Holocene epoch lasers low level turbulence (added May 2001) optical memory (data storage) magnetohydrodynamic turbulence Most recent geologic epoch of the photopolymers Quaternary period extending from about 10,000 scatter plates (optics) years ago to, and including, the present. spatial filtering homogenization USE homogenizing Cenozoic Era speckle patterns . Quaternary period wave front reconstruction homogenizing . Holocene epoch homogenization geochronology holomorphismmixing GS Pleistocene epoch USE analytic functions . homogenizing agitation colloiding homeostasis hologrammetry holography acclimatization compounding imaging techniques acid base equilibrium dispersing photographic recording adaptation dissolving photomapping body temperature speckle holography cold tolerance homogeneity terrain analysis colloids premixing ∞ equilibrium ∞ separation holographic interferometry fibrinogen suspending (mixing) interferometry hormones holographic interferometry metabolism homojunctions coherent light DEF Junctions between semiconductors nervous system diffraction patterns that differ in their doping level conductivities but osmosis holographic optical elements physiology not in their atomic or alloy composition. holography respiratory system semiconductor junctions skin (anatomy) homojunctions laser outputs Moire interferometry stress (physiology) heterojunction devices thermoregulation heterojunctions scatter plates (optics) silicon junctions speckle holography thromboplastin wave front reconstruction water balance solar cells holographic optical elements homeotherms homology (added April 1995) warm blooded animals cohomology analogies duality theorem DEF Holograpms used to control transmit-GS animals ted light beams, rather than to display images, homeotherms based on the principles of diffraction. matching birds diffraction paths body temperature ∞ relationships geometrical optics mammals topology holographic interferometry vertebrates imagery homomorphisms laser beams GS algebra homing DEF The following of a path of energy waves to or toward their source or point of light transmission . group theory

reflection

homomorphisms

... automorphisms

optical paths pulse diffraction

. . . monoids . subgroups field theory (algebra) isomorphism

#### homopolar generators

DEF Rotating electric machines for converting mechanical power into pure direct current by utilizing poles having the same polarity at the armature.

GS electric generators

- . direct power generators
- .. DC generators

- . . . homopolar generators . rotating generators . . homopolar generators

RT direct current

- ∞ electric equipment
- electromechanical devices
- ∞ generators

# homosphere

The lower portion of a two part division of the atmosphere according to the general homogeneity of atmospheric composition; opposed to the heterosphere. The region in which there is no gross change in atmospheric composition, that is, all the atmosphere from the Earth's surface to about 90 kilometers. The homosphere is about equivalent to the neutrosphere, and includes the troposphere, stratosphere, and mesosphere; it also includes the ozonosphere and at least part of the chemosphere.

Earth atmosphere GS

# homosphere

biosphere RT chemosphere Earth ionosphere lower atmosphere mesosphere middle atmosphere ozonosphere stratosphere thermosphere troposphere

# homotopy theory

GS geometry

topology

. homotopy theory

upper atmosphere

curves (geometry)

fibers (mathematics)

∞ theories

# homotropy

RT algebra problem solving set theory topology

# Honduras

nations

Honduras

Central America

# Honest John rocket vehicle

rocket vehicles

- . single stage rocket vehicles
- . Honest John rocket vehicle . surface to surface rockets
- . Honest John rocket vehicle

Argo rocket vehicles

**EXOS** sounding rocket Hercules engine

solid propellant rocket engines

Trailblazer 1 reentry vehicle

#### honeycomb cores

DEF Lightweight strengthening materials of structures resembling honeycomb meshes.

cores

honeycomb cores

honeycomb structures

honeycomb cores

ceramic honeycombs composite structures low density materials

sandwich structures

#### honeycomb mirrors

(added August 1995)

DEF High strength to weight telescope mirrors constructed of spun-cast borosilicate glass in a honeycomb structure that optically represents a single large mirror.

GS honeycomb structures

honeycomb mirrors

mirrors

#### honeycomb mirrors

adaptive optics astronomical observatories

borosilicate glass optical correction procedure reflecting telescopes

segmented mirrors

# honeycomb structures

#### GS honeycomb structures

- honeycomb cores
- . honeycomb mirrors

RT ∞ cells

ceramic honeycombs composite structures

hexagonal cells

insulation laminates

low density materials metal foils

porous materials

sandwich structures

structures

### Honeywell 600/6000 computer

GS data processing equipment

- . computers
- . . analog computers
- . . . Honeywell 600/6000 computer . . digital computers

- ... Honeywell computers ... Honeywell 600/6000 computer

# Honeywell ADEPT computer

GS data processing equipment

- . computers
- . . digital computers
- ... Honeywell computers
- . . . . Honeywell ADEPT computer

# Honeywell computers

GS data processing equipment

- . computers
- . . digital computers
- ... Honeywell computers ... DDP 516 computer
- . Honeywell 600/6000 computer
- . . . Honeywell ADEPT computer
  . . . Honeywell DDP 116 computer

# Honeywell DDP 116 computer

- GS data processing equipment
  - . computers
  - . . digital computers
  - . . . Honeywell computers
  - .... Honeywell DDP 116 computer

# Hong Kong

Asia China nations Taiwan

# honing

scrapers smoothing

#### Hookes law GS

laws

Hookes law

elastic properties fiber strength Maxwell bodies modulus of elasticity shear properties

stress-strain diagrams

# hooks

RT fasteners forks swivels

# hoop column antennas

GS antennas

#### hoop column antennas

large space structures satellite communication spacecraft communication

#### hoops

ring structures tensile stress

# Hopcalite (trademark)

GS catalysts

# . Hopcalite (trademark)

chalcogenides . oxides

- . . metal oxides
- . . . manganese oxides . . . . Hopcalite (trademark)

manganese compounds

. manganese oxides

Hopcalite (trademark)

air purification carbon monoxide gas analysis

HOPE aerospace plane (added September 1995)

H-2 orbiting plane H-II orbiting plane

aerospace vehicles . aerospace planes

# . . HOPE aerospace plane maneuverable spacecraft

. aerospace planes . . HOPE aerospace plane

manned spacecraft

. HOPE aerospace plane

reentry vehicles

. recoverable spacecraft . . reusable spacecraft

. . . aerospace planes

HOPE aerospace plane soft landing spacecraft

. aerospace planes

HOPE aerospace plane hypersonic vehicles Japanese space program lifting reentry vehicles space transportation

hoppers  $RT \, \infty \, containers$ materials handling packaging

horizon That great circle or the celestial sphere midway between the zenith and nadir, or a line resembling or approximating such a circle.

GS horizon

. event horizon gyro horizons

radio horizons RT celestial sphere range (extremes)

horizon scanners horizon sensing infrared horizon scanners

flight instruments

. horizon scanners

scanners horizon scanners

attitude control infrared scanners navigation instruments optical equipment photometers radio horizons radiometers

Scanner project trapezoidal tail surfaces flow distortion flow geometry horizontally polarized shear waves vortex filaments horizon sensing USE horizon scanners USE SH waves vortex generators vortex rings hormone metabolisms vorticity horizontal branch stars DEF Horizontal strips of stars on the Hertzsprung-Russell diagram of globular clusters to the left of the red giant branch. GS metabolism wakes hormone metabolisms wing tip vortices RT alucocorticoids hormones celestial bodies GS . stars hoses hormones . horizontal branch stars RT pipes (tubes) GS secretions color-magnitude diagram ∞ tubes . endocrine secretions giant stars . . hormones globular clusters ... corticosteroids Hertzsprung-Russell diagram hospitals aldosterone Population II stars ŔŦ evacuating (transportation) . hydroxycorticosteroid stellar evolution medical equipment . . . . . cortisone stellar luminosity . . glucocorticoids stellar spectra estrogens stellar spectrophotometry hypertensin hot air ... pituitary hormones horizontal distribution USF high temperature air . adrenocorticotropin (ACTH) (added September 1992) . . . . vasopressins GS distribution (property) ... prostaglandins . spatial distribution hot atoms . . thyroxine . horizontal distribution Atoms with high internal or kinetic encatecholamine atmospheric circulation ergy as a result of a nuclear process such as endocrine systems atmospheric composition beta decay or neutron capture. epinephrine atmospheric models atoms GS homeostasis horizontal orientation hot atoms hormone metabolisms vertical distribution beta particles melatonin decay regulatory mechanisms (biology) horizontal flight neutron decay steroids aerodynamic balance aircraft stability horn antennas climbing flight hot cathodes DEF Antennas shaped like a horn. cruising flight DFF Cathodes that function primarily by the antennas ∞ flight process of thermionic emission. . directional antennas flight paths . . horn antennas GS electrodes rocket flight . cathodes . radio antennas soaring . . tube cathodes . . microwave antennas transition flight . . horn antennas . . hot cathodes turning flight . waveguide antennas RT Bayard-Alpert ionization gages . horn antennas ionization gages horizontal orientation thermionic cathodes microwave equipment DEF The attitude of an object in reference to . microwave antennas the plane which is perpendicular to the direction . horn antennas of gravity. radio equipment hot corrosion ŘΤ alignment . radio antennas The corrosion at high temperatures as attitude (inclination) . . microwave antennas a result of the reduction of protective oxide directional stability . . horn antennas coatings and scales and the subsequent acceldynamic stability RT antenna design erated oxidation. horizontal distribution lens antennas GS corrosion ∞ orientation parabolic antennas . hot corrosion stabilization radar antennas coatings vertical orientation damage degradation Schelkunoff principle sidelobe reduction horizontal spacecraft landing slot antennas deterioration landing erosion . glide landings horns gas-metal interactions . . horizontal spacecraft landing auditory signals metal coatings spacecraft landing Schwarzschild antennas oxidation ... horizontal spacecraft landing ∞ signals pitting approach and landing tests (STS) rusting crash landing sound generators scale (corrosion) planetary landing warning surface properties soft landing warning systems temperature dependence water landing horsepower horizontal stabilizers RT physical work hot cycle propulsion system USE stabilizers (fluid dynamics) ∞ power USE tip driven rotors power efficiency horizontal tail surfaces work tail planes GS airfoils horses hot electrons . horizontal tail surfaces GS particles animals assemblies . vertebrates . charged particles . tail assemblies . . mammals . . energetic particles . . horizontal tail surfaces . . horses . . . electrons control surfaces grazing .... hot electrons . corpuscular radiation . horizontal tail surfaces livestock stabilizers (fluid dynamics) . . energetic particles

horseshoe vortices

UF

GS

RT

(added July 1989)

vortices

hairpin vortices

Abrikosov theory

horseshoe vortices

. . . electrons

. . . leptons

. . . . electrons

.... hot electrons

. elementary particles . . fermions

horizontal tail surfaces

. horizontal tail surfaces

elevators (control surfaces)

tail surfaces

aerial rudders

surfaces

|           | hot electrons                            |         | white dwarf stars                          |          | . wind tunnels                |
|-----------|--|---------|--|----------|-------------------------------|
| hot over  | uding                                    | DT      | Wolf-Rayet stars                           |          | hypersonic wind tunnels       |
| hot extr  | extruding                                | RI      | cataclysmic variables                      |          | hotshot wind tunnels          |
| USE       | extruding                                |         | peculiar stars                             |          | hypervelocity wind tunnels    |
| hot form  | nina                                     |         | red dwarf stars                            | рт       | hotshot wind tunnels          |
|           | hot working                              | hat are | f  | RI       | blowdown wind tunnels         |
| UUL       | not working                              | hot sur |  |          | shock tubes                   |
| hot gas   | systems                                  | RI      | heat transfer                              |          | shock tunnels                 |
|           | high temperature gases                   |         | Rayleigh-Benard convection                 |          |                               |
| UUL       | night temperature gases                  | c       | ∞ surfaces                                 | hot-wir  | e anemometers                 |
| hot gase  | 9.5                                      |         |  | GS       | measuring instruments         |
|           | high temperature gases                   |         | ter rocket engines                         |          | . anemometers                 |
| 002       | g topo.ata.o gaooo                       | GS      |  |          | hot-wire anemometers          |
| hot isos  | static pressing                          |         | . rocket engines                           | RT       | flow measurement              |
|           | A thermomechanical process for form-     |         | hot water rocket engines                   |          | flowmeters                    |
|           | al-powder compacts or ceramic shapes     | hat wa  | -4h  |          | meteorological instruments    |
| by use    | of isostatically applied gas pressure in | hot we  |  |          | velocity measurement          |
|           | achieve high density in the treated      | GS      | weather                                    |          |                               |
|           | . Used for HIP (process).                | рт      | . hot weather                              | hot-wir  | e flowmeters                  |
|           | HIP (process)                            | RT      |  | UF       | hot-wire turbulence meters    |
|           | forming techniques                       |         | summer                                     | GS       | 3                             |
|           | . pressing (forming)                     |         | tropical regions                           |          | . flowmeters                  |
|           | hot pressing                             | hat wa  | ulcius au                                  |          | hot-wire flowmeters           |
|           | hot isostatic pressing                   | hot wo  | •  | RT       | Pirani gages                  |
|           | hardening (materials)                    |         | Controlled mechanical operations for       |          | plasma electrodes             |
|           | . hot pressing                           |         | a product at temperatures above the        |          | thermal conductivity          |
|           | . hot isostatic pressing                 |         | allization temperature. Used for hot form- |          | turbulence meters             |
|           | thermomechanical treatment               | ing.    | hat forming                                |          |                               |
|           | . hot pressing                           | UF      |  | hot-wire | e turbulence meters           |
|           | hot isostatic pressing                   | GS      | forming techniques                         | USE      | hot-wire flowmeters           |
| RT        | coining                                  |         | . hot working                              |          | turbulence meters             |
|           | cold pressing                            | 5.7     | ausforming                                 |          |                               |
|           | compacting                               | RT      | bulging                                    | Hound    | Dog missile                   |
|           | forging                                  |         | forging                                    |          | missiles                      |
|           | isostatic pressure                       |         | metal drawing                              |          | . air to surface missiles     |
|           | metal working                            |         | metal spinning                             |          | Hound Dog missile             |
| ~         | pressing                                 |         | metal working                              | RT       | turbojet engines              |
|           | sintering                                |         | pultrusion                                 |          |                               |
|           | stamping                                 |         | shearing                                   | Housel   | nolder transformations        |
|           | upsetting                                |         | upsetting                                  | GS       | transformations (mathematics) |
|           | upsetting                                |         |  | 00       | . Householder transformation  |
| hot jet e | exhaust                                  |         | n anemometers                              | RT       | problem solving               |
|           | high temperature gases                   | GS      | 3  | IXI      | problem solving               |
| 002       | jet exhaust                              |         | . anemometers                              | housek   | keeping (spacecraft)          |
|           | jot oxnauot                              |         | hot-film anemometers                       | GS       |                               |
| hot jets  |  | RT      | flow measurement                           | 00       | . housekeeping (spacecraft)   |
|           | jet flow                                 |         | meteorological instruments                 |          | cleanliness                   |
|           | ,  |         | sonic anemometers                          |          | . housekeeping (spacecraft)   |
| hot mad   | chining                                  |         | velocity measurement                       | RT       |                               |
| GS        | machining                                |         | wind (meteorology)                         | IXI      | sanitation                    |
|           | . hot machining                          |         | wind measurement                           |          | sterilization                 |
| RT        | forming techniques                       |         | wind vanes                                 |          | washing                       |
|           |  |         | wind velocity                              |          | washing                       |
| hot plas  | mas                                      |         | wind velocity measurement                  | housin   | ac                            |
| USE       | high temperature plasmas                 |         |  | housin   |                               |
|           |  |         | . launch vehicle                           | GS       | housings                      |
| hot pres  | ssing                                    |         | A British unmanned horizontal takeoff      |          | . cowlings                    |
| DEF       | The simultaneous heating and molding     |         | ding single-stage-to-orbit launch vehicle. |          | . doghouses (electronics)     |
| of a con  | npact.                                   |         | unches will be manned.                     |          | . radomes                     |
| GS        | forming techniques                       | GS      | aerospace vehicles                         | RT «     | ∞ containers                  |
|           | pressing (forming)                       |         | . aerospace planes                         |          | coverings                     |
|           | hot pressing                             |         | HOTOL launch vehicle                       |          | domes (structural forms)      |
|           | hot isostatic pressing                   |         | launch vehicles                            |          | enclosure                     |
|           | hardening (materials)                    |         | . reusable launch vehicles                 |          | enclosures                    |
|           | hot pressing                             |         | single stage to orbit vehicles             |          | fairings                      |
|           | hot isostatic pressing                   |         | HOTOL launch vehicle                       |          | guards (shields)              |
|           | thermomechanical treatment               |         | maneuverable spacecraft                    |          | nacelles                      |
|           | hot pressing                             |         | . aerospace planes                         |          | perforated shells             |
|           | hot isostatic pressing                   |         | HOTOL launch vehicle                       |          | protection                    |
| RT        | coining                                  |         | reentry vehicles                           |          | protectors                    |
|           | cold pressing                            |         | . recoverable spacecraft                   |          | protuberances                 |
|           | compacting                               |         | reusable spacecraft                        |          | shells (structural forms)     |
|           | forging                                  |         | aerospace planes                           |          | shielding                     |
|           | metal working                            |         | HOTOL launch vehicle                       |          | walls                         |
| -         | pressing                                 |         | single stage to orbit vehicles             |          |                               |
| ~         | sintering                                |         | HOTOL launch vehicle                       | Housto   | on (TX)                       |
|           | stamping                                 |         | soft landing spacecraft                    | GS       |                               |
|           | upsetting                                |         | . aerospace planes                         |          | . Houston (TX)                |
|           | apocaring                                |         | HOTOL launch vehicle                       | RT       | texas                         |
| hot star  | ·e                                       |         | unmanned spacecraft                        | 13.1     |                               |
|           |  |         |  | hovercr  | raft                          |
| GS        | celestial bodies                         | рт      | . HOTOL launch vehicle                     |          |                               |
|           | . stars                                  | RT      | launch vehicle configurations              | USE      | ground effect machines        |
|           | early stars                              |         | space shuttles                             |          |                               |
|           | hot stars                                |         | space transportation                       |          | raft ground effect machines   |
|           | A stars                                  |         | spacecraft launching                       | UF       | 3                             |
|           | B stars                                  |         | UK space program                           | GS       | ground effect machines        |
|           | shell stars                              | c       | ∞ vehicles                                 |          | . hovercraft ground effect    |
|           | Sigma Orionis                            |         |  |          | machines                      |
|           | blue stars                               |         | t wind tunnels                             | RT •     | ∞ aircraft                    |
|           | O stars                                  | GS      | test facilities                            |          | research aircraft             |
|           |  |         |  |          |                               |

water takeoff and landing aircraft RT ∞ aircraft RT spokes HS-801 aircraft hovering GS Hawker Siddeley aircraft **Hudson Bay (Canada)** GS maneuvers bays (topographic features) HS-801 aircraft . hovering Hudson Bay (Canada) aerodynamic stability jet aircraft HS-801 aircraft Cushioncraft ground effect machine RT Canada reconnaissance aircraft **Hudson River (NY-NJ)** ground effect machines . HS-801 aircraft hovering rocket vehicles aerial reconnaissance GS rivers Hudson River (NY-NJ) terrain following ∞ aircraft New Jersey transition flight observation aircraft New York V/STOL aircraft photography vertical flight photoreconnaissance Hueckel theory whirl towers RT ∞ theories HSS-2 helicopter SH-3 helicopter hovering rocket vehicles USE **Hughes aircraft** rocket vehicles GS Hughes aircraft HTGR hovering rocket vehicles . AH-64 helicopter USE high temperature gas cooled hovering . H-17 helicopter reactors soft landing spacecraft . OH-6 helicopter ∞ vehicles HTML . TH-55 helicopter USE document markup languages . XV-9A aircraft hovering stability RT ∞ aircraft GS dynamic characteristics HTPB propellants . dynamic stability Solid rocket propellants containing hy-Hugoniot adiabat . . motion stability droxyl terminated polybutadiene as bonding ma-USE Hugoniot equation of state . . . aircraft stability hovering stability Hugoniot equation of state propellants stability Hugoniot adiabat equations of state . rocket propellants . dynamic stability GS . . solid rocket propellants . . motion stability . Hugoniot equation of state compressible flow ... HTPB propellants . . . aircraft stability . solid propellants . . hovering stability ∞ equations . . solid rocket propellants attitude stability ... HTPB propellants loads (forces) directional stability plastic propellants one dimensional flow gyroscopic stability polybutadiene shock waves lateral stability longitudinal stability HUL HTSC (superconductors) low speed stability whirl towers USF hardware utilization lists USE high temperature superconductors hulls (structures) HU-1 helicopter howitzers hulls (structures) USE UH-1 helicopter GS<sup>°</sup> weapons . guns (ordnance) GS . ship hulls HU2K-1 helicopter aircraft structures . . artillery USE **UH-2** helicopter bays (structural units) . howitzers bulkheads RT ballistics **Hubble constant** fuselages gun launchers DEF The rate at which the velocity of receshydrofoils gunnery training sion of the galaxies increases with distance. keels constants metal shells HP-115 aircraft . Hubble constant perforated shells Handley Page HP-115 aircraft
Handley Page aircraft
. HP-115 aircraft cosmology seaplanes GS galaxies shells (structural forms) irregular galaxies skin (structural member) jet aircraft . HP-115 aircraft red shift strakes velocity measurement ∞ structures monoplanes
. HP-115 aircraft SWATH (ship) **Hubble diagram** research vehicles GS cosmology hum . research aircraft Hubble diagram Electrical disturbance at the power . HP-115 aircraft barred galaxies supply frequency or harmonics thereof. tailless aircraft galactic radiation acoustics . HP-115 aircraft galaxies ∞ interference RT ∞ aircraft irregular galaxies noise wing planforms red shift velocity measurement human behavior GS behavior USE **Health Physics Research Reactor Hubble Space Telescope** human behavior Large Space Telescope boredom LSŤ detachment USE Hertzsprung-Russell diagram artificial satellites disorders . scientific satellites dithers HRB-1 helicopter . . astronomical satellites emotions USE CH-46 helicopter . Hubble Space Telescope extroversion observatories introversion HS-125 aircraft . astronomical observatories lethargy USE DH 125 aircraft . . astronomical satellites neuropsychiatry . Hubble Space Telescope panic telescopes AVRO Whitworth HS-748 aircraft human beings spaceborne telescopes . Hubble Space Telescope Hawker Siddeley aircraft man HS-748 aircraft faint object camera James Webb Space Telescope RT animals jet aircraft . vertebrates Space Shuttle payloads . . mammals . turboprop aircraft . . . primates ... HS-748 aircraft spaceborne astronomy monoplanes ... human beings ultraviolet astronomy aborigines . HS-748 aircraft anthropology passenger aircraft hubs

rotor hubs

census

UF

. HS-748 aircraft

|       | children                                 |          | workstations                                   |         | personnel                                  |
|-------|--|----------|--|---------|--|
|       | chimpanzees<br>clinical medicine         | human    | factors laboratories                           |         | personnel development personnel management |
|       | cultural resources                       | GS       | laboratories                                   |         | personner management                       |
|       | demography                               | 00       | . human factors laboratories                   | human   | tolerances                                 |
|       | females                                  | RT       | environmental laboratories                     | GS      | tolerances (physiology)                    |
|       | males                                    |          |  |         | . human tolerances                         |
|       | man environment interactions             |          | immunodeficiency virus                         | RT •    | ∘ acceleration                             |
|       | parents                                  |          | ed August 1991)                                |         | acceleration tolerance                     |
|       | patients                                 |          | A virus which attacks the human im-            |         | diving (underwater)                        |
|       | race factors                             |          | ystem and causes acquired immunode-            | ٥       | endurance                                  |
|       | races (anthropology)                     |          | syndrome (AIDS).                               |         | heat acclimatization                       |
|       | youth                                    | UF<br>GS | HIV (virus) microorganisms                     |         | heat tolerance                             |
| human | hody                                     | GG       | . viruses                                      |         | noise pollution<br>noise tolerance         |
| GS    | anatomy                                  |          | human immunodeficiency virus                   |         | orthostatic tolerance                      |
|       | . human body                             | RT       | acquired immunodeficiency syndrome             |         | radiation tolerance                        |
| RT    | appendages                               |          | antibodies                                     |         | shock (physiology)                         |
| ~     | bodies                                   |          | immune systems                                 |         | (1 ) 37/                                   |
|       | body measurement (biology)               |          | immunology                                     | human   | wastes                                     |
|       | exercise physiology                      |          | interferon                                     | GS      | wastes                                     |
|       | limbs (anatomy)                          |          | vaccines                                       |         | metabolic wastes                           |
|       | lumbar region                            |          | viral diseases                                 |         | human wastes                               |
|       | posture                                  |          | virulence                                      |         | feces                                      |
|       | sciatic region                           | human    | pathology                                      | RT      | urine activated sludge                     |
| human | centrifuges                              |          | medical science                                | IXI     | air pollution                              |
| UF    | piloted centrifuges                      | 00       | . pathology                                    |         | environment pollution                      |
|       | centrifuges                              |          | human pathology                                |         | environmental surveys                      |
|       | . human centrifuges                      | RT       | cholera  |         | excretion                                  |
| RT    | acceleration tolerance                   |          | convulsions                                    |         | liquid wastes                              |
|       | artificial gravity                       |          | epilepsy                                       |         | organic wastes (fuel conversion)           |
|       | high gravity environments                |          | patients                                       |         | pollution                                  |
|       |  | _        |  |         | sewage                                     |
|       | engineering                              |          | performance                                    |         | sewers                                     |
| USE   | human factors engineering                | GS       | human performance                              |         | solid wastes                               |
| human | factors engineering                      |          | . astronaut performance                        |         | toilets                                    |
|       | Application of information on physical   |          | blackout prevention . operator performance     |         | waste disposal                             |
|       | chological characteristics of man to the |          | . pilot performance                            | human.  | computer interface                         |
|       | of devices and systems for human use.    |          | blackout prevention                            | UF      | man-computer interface                     |
|       | r ergonomics and human engineering.      | RT       | abilities                                      | O.      | user-computer interface                    |
| UF    | ergonomics                               |          | competition                                    | GS      | interfaces                                 |
|       | human engineering                        | ٥        | • endurance                                    |         | . human-computer interface                 |
| RT ∝  | aeronautics                              |          | human resources                                |         | man machine systems                        |
|       | aircraft accidents                       |          | information processing (biology)               |         | . human-computer interface                 |
|       | aircraft hazards                         |          | intelligence tests                             | RT      | command languages                          |
|       | anthropometry                            |          | intravehicular activity                        |         | computer aided design                      |
|       | architecture                             |          | mental health                                  |         | data processing terminals                  |
|       | astronaut maneuvering equipment          |          | mental performance                             |         | display devices                            |
|       | astronaut performance astronautics       | ٥        | o performance                                  |         | document markup languages                  |
| •     | bioengineering                           |          | pilot error psychomotor performance            |         | graphical user interface                   |
|       | biofeedback                              |          | race factors                                   |         | human factors engineering                  |
|       | bionics                                  |          | sensorimotor performance                       |         | hypertext natural language processing      |
|       | body measurement (biology)               |          | visual tasks                                   |         | pilot support systems                      |
|       | brightness                               |          | workloads (psychophysiology)                   |         | query languages                            |
|       | color                                    |          |  |         | user requirements                          |
|       | comfort                                  | human    | reactions                                      |         | virtual reality                            |
|       | cybernetics                              | RT       | biological effects                             |         | •  |
|       | education                                |          | boredom  |         | on comet                                   |
|       | efficiency                               |          | competition                                    | GS      | celestial bodies                           |
| 000   | engineering                              |          | emotional factors                              |         | . comets                                   |
|       | environmental engineering environments   |          | laughing                                       | БТ      | Humason comet                              |
|       | fatigue (biology)                        |          | noise pollution                                | RT      | solar system                               |
|       | flat panel displays                      |          | physiological effects<br>psychological effects | humeru  | ie.  |
| 000   | flight stress                            |          | psychomotor performance                        | RT      | arm (anatomy)                              |
|       | glare                                    | ۰        | • reaction                                     |         | elbow (anatomy)                            |
|       | human resources                          |          | reaction time                                  |         | cisen (anatemy)                            |
|       | human-computer interface                 |          | reward (psychology)                            | humidit | ty   |
|       | illuminating                             |          | sensorimotor performance                       | DEF     | The amount of water vapor in the air.      |
|       | life support systems                     |          | shock (physiology)                             |         | ally, relative humidity.                   |
|       | man machine systems                      |          | vacillation                                    | RT      | air conditioning                           |
|       | manned space flight                      |          |  |         | atmospheric density                        |
|       | manual control                           |          | relations                                      |         | atmospheric moisture                       |
|       | monocular vision                         | UF       | interpersonal relations                        |         | body temperature                           |
|       | noise (sound)<br>performance             | RT       | employee relations                             |         | climatology<br>comfort                     |
| •     | pilot error                              |          | personnel management                           |         | corrosion                                  |
|       | production engineering                   |          | sociology                                      |         | dehumidification                           |
|       | psychological effects                    | human    | resources                                      |         | drop size                                  |
|       | safety devices                           |          | Those elements of support and capa-            |         | dry heat                                   |
|       | safety management                        |          | at are provided by persons using their         |         | environments                               |
|       | situational awareness                    |          | and physical capabilities.                     |         | hygral properties                          |
|       | systems engineering                      | RT       | education                                      |         | hygrometers                                |
|       | teleoperators                            |          | human factors engineering                      |         | lapse rate                                 |
|       | visibility                               |          | human performance                              |         | meteorological parameters                  |
|       | vision                                   |          | management planning                            |         | meteorology                                |
|       | wheelchairs                              |          | manpower                                       |         | mixing ratios                              |

moisture moisture content moisture meters perspiration precipitation (meteorology) psychological effects psychrometers refrigerating temperature vapor pressure water water vapor weather forecasting

# humidity measurement

RT hygrometers ∞ measurement meteorological instruments moisture meters psychrometers

Hummingbird aircraft USE XV-4 aircraft

# Hungarian space program

(added June 1989)

programs

space programs

. . European space programs

. Hungarian space program

RT Hungary

# Hungary

nations GS Hungary Central Europe RT Europe

Hungarian space program

Hunter F-2 aircraft USE F-2 aircraft

Hunting H-126 aircraft USE H-126 aircraft

Hunting P-84 aircraft

USE jet provost aircraft

Tropical cyclones, especially in the West Indies, in which the wind velocity equals or exceeds 64 knots (73 mph).

GS storms

. storms (meteorology)

. . cyclones

. . . hurricanes

. . . . Anna hurricane

. . tropical storms

... hurricanes

. . . Anna hurricane

climatology cyclogenesis meteorology storm damage storm surges tornadoes typhoons

HUS-1 helicopter

USE UH-34 helicopter

Huskie helicopter

USE HH-43 helicopter

Hustler aircraft

USE B-58 aircraft

HUT (physiology) (added March 1998) USE head up tilt

Huygens principle

DEF A very general principle applying to all forms of wave motion which states that every point on the instantaneous position of an advancing phase front (wave front) may be regarded as a source of secondary spherical wavelets. The position of the phase front a moment later is then determined as the envelope of all the secondary wavelets (ad infinitum). RT diffraction

∞ optics point sources refraction scattering Schelkunoff principle spherical waves wave fronts wave propagation

#### Huygens probe

(added May 1997) GS ESA spacecraft . Huygens probe unmanned spacecraft space probes Huygens probe

Cassini mission satellite atmospheres Titan Titan atmosphere

#### Hvittis chondrite

GS celestial bodies . meteorites . . stony meteorites

. . . chondrites

.... Hvittis chondrite

#### **HVOF** thermal spraying

(added July 2001)

DEF Thermal spray process where the spray powder particles are injected into a highvelocity jet formed by the combustion of oxygen and fuel. Used to deposit strong, high-density coatings with low residual stress.

high velocity oxy-fuel spraying high velocity oxygen fuel thermal spraying

spraying GS

. flame spraying
. . HVOF thermal spraying

coating metal spraying plasma spraying protective coatings sprayed coatings

# hybrid circuits

GS circuits

hybrid circuits

electronic packaging printed circuits semiconductor devices transistor circuits

hybrid combustion

USE hybrid propellant rocket engines

# hybrid composites

(added April 1992) GS composite materials

hybrid composites

fiber composites hybrid structures laminates metal matrix composites polymer matrix composites reinforced plastics reinforcing fibers resin matrix composites

# hybrid computers

data processing equipment . computers

superhybrid materials

. hybrid computers analog computers digital computers

# hybrid navigation systems

navigation

. hybrid navigation systems

navigation aids navigation instruments ∞ systems

# hybrid propellant rocket engines

hybrid combustion UF

GS engines

. rocket engines

#### .. hybrid propellant rocket engines

. . lithergol rocket engines booster rocket engines ∞ hybrid rocket engines internal combustion engines jet engines liquid propellant rocket engines restartable rocket engines solid propellant rocket engines sustainer rocket engines Vernier engines

# hybrid propellants

lithergolic propellants

propellants

#### hybrid propellants RT

case bonded propellants chemical fuels cryogenic rocket propellants gaseous rocket propellants gelled rocket propellants high energy fuels high energy propellants hypergolic rocket propellants liquid rocket propellants metal fuels metal propellants solid propellant ignition solid propellants

# hybrid propulsion

dual mode propulsion

propulsion

. chemical propulsion

solid rocket propellants

hybrid propulsion

jet engines laser propulsion rocket engines

rocket-based combined-cycle engines

# ∞ hybrid rocket engines

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ducted rocket engines

hybrid propellant rocket engines

liquid propellant rocket engines lithergol rocket engines solid propellant rocket engines turboramjet engines

#### hybrid structures

An assembly constructed of interconnected rigid and flexible structural shapes; designed to sustain dynamic, static, and other loads.

RT composite structures elastic properties flexible bodies hybrid composites rigid structures structural stability  $\infty$  structures

hybrids (biology)

USE genetic engineering

hybrid-Trefftz finite element method (added July 1998) finite element method

Trefftz method

# Hydra

(added September 2006)

DEF Natural satellite of Pluto discovered May 2005.

celestial bodies ĠS

. natural satellites . . Pluto satellites

. . Hydra Nix Pluto (planet)

#### hydrates

RT aqueous solutions water

#### hydration

The formation of a compound by the combining of water with some other substance.

RT chemical reactions RT jet flow . . organic nitrates dehydration . . . nitroforms hvdraulic pumps . . hydrazine nitroform hydrolysis USE hydraulic equipment hydrophobicity propellants pumps . hydrazine nitroform hydraulic actuators hydraulic shock USE actuators GS mechanical shock hydrazine perchlorates hydraulic equipment GS halogen compounds . hydraulic shock . chlorine compounds hydraulic analogies . . perchlorates hydraulic systems analogies . . hydrazine perchlorates USE hydraulic equipment hydraulic analogies hvdrazines computerized simulation hydraulic test tunnels . hydrazine perchlorates flow visualization UF water tunnels fluerics GS test facilities fluidics hydrazines hydraulic test tunnels gas flow GS hydrazines RT ∞ tunnels numerical flow visualization . chlorpromazine wave propagation hydraulic valves . dihydrazine USE hydraulic equipment dimethylhydrazines hydraulic control . ethylene dihydrazine valves electrohydraulic control hydrazine borane RT automatic control . hydrazine perchlorates  $\infty$  control (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . methylhydrazine SN electronic control . . monomethylhydrazines engine control . tetrafluorohydrazine fluid power fluid dynamics aerozine fluidics fluid flow amines fluid mechanics ∞ hydraulics hydrazides pneumatic control fluid power hvdrazones remote control hydraulic control liquid rocket propellants solenoid valves hydraulic equipment rocket propellants hydraulic fluids hydraulic equipment hydrodynamic ram effect hydraulic actuators hydrodynamics hydrazinium compounds hydraulic heating sources hydrology nitrogen compounds hydraulic pumps hydromechanics . hydrazinium compounds hydraulic systems hydrostatics RT ∞ chemical compounds hydraulic valves impedance hydraulic equipment influence coefficient . aircraft hydraulic systems limnology hydrazoic acid airborne equipment ∞ mechanics (physics) GS acids automatic control valves pipes (tubes) hydrazoic acid cocks pneumatics nitrogen compounds cushions pressure heads hydrazoic acid ∞ equipment thermohydraulics RT nitrogen hydrides fluid amplifiers water fluid power water flow fluid switching elements water pressure hydrazones fly by tube control nitrogen compounds GS gates (openings) hydrazides hydrazones hydraulics RT hydrazines hydrazines motors network analysis hydrazine borane network synthesis GS boron compounds hydrazonium compounds pumps . boron hydrides RT ∞ chemical compounds . . boranes relief valves servocontrol . . hydrazine borane hydrides servomechanisms hydrazines GS hydrogen compounds hydrides shock absorbers hydrazine borane o systems hydrogen compounds . . borohydrides turbine wheels . hydrides ... aluminum borohydrides valves . . boron hydrides water hammer beryllium borohydrides . . . boranés .... hydrazine borane . . boron hydrides wheel brakes . . . aluminum borohydrides hydraulic fluids hydrazine engines beryllium borohydrides DEF Liquids used in hydraulic systems for UF NIMPHE (engine) ... boranes transmitting power. . carborane engines .... hydrazine borane liquids . rocket engines . hydraulic fluids . . liquid propellant rocket engines . pentaboranes . hydrazine engines . Skydrol (trademark) . . diborane . . dihydrides fluid pressure monomethylhydrazines fluid transmission lines turborocket engines . . metal hydrides . . . aluminum hydrides ∞ fluids high temperature fluids hydrazine nitrate ... aluminum borohydrides ∞ hydraulics GS nitrogen compounds beryllium hydrides . nitrates oils ... cesium hydrides . . inorganic nitrates . . . lithium hydrides patch tests . . . . lithium aluminum hydrides transmission fluids ... hydrazine nitrate . . . potassium hydrides working fluids ... sodium hydrides hydrazine nitroform hydraulic heating sources GS esters . . nitrogen hydrides . . . amino radical USE heat sources . organic nitrates hydraulic equipment . . nitroforms . . phosphines ... hydrazine nitroform . . silanes . . . chlorosilanes hydraulic jets explosives . . . methyl chlorosilanes hydrazine nitroform UF water jets

nitrogen compounds

nitrates

GS

fluid jets
hydraulic jets

. zirconium hydrides

RT deuterides

# hydroballistics

hydrogen production RT acetylene ... cyclobutane aircraft fuels . . . cyclohexane hydroacoustics alkanes cyclopropane USE underwater acoustics amines durene . . . indene automobile fuels hydroaeromechanics butadiene ... menthol USE aerodynamics clean fuels ... naphthalene coal gasification . . . naphthenes hydroballistics coal liquefaction . . . polycyclic aromatic hydrocarbons GS ballistics coal utilization . . diphenyl compounds hydroballistics endothermic fuels ... diphenyl hydantoin ballistic ranges . . fluorohydrocarbons energy policy hydrodynamics environmental chemistry . . . carbon tetrafluoride torpedoes chlorofluoromethane ethane . . . polytetrafluoroethylene underwater explosions ethylene underwater trajectories fuel production . teflon (trademark) heptanes . . mesitylene . . methylene . . methylidyne hydrobarophones hexenes USE hydrophones high energy fuels . . natural gas . . . liquefied natural gas hydrogen fuels hydroboration hydrogen-based energy chemical reactions GS hypergolic rocket propellants . . phenanthrene . hydroboration . . pyrenes . . quinoxalines . . stilbene kerogen kerosene hydrobromic acid methanation GS acids methane paraffins . . toluene hydrobromic acid . . triphenyls halogen compounds propane . . xylene . bromine compounds retort processing RT ∞ aromatic compounds . . bromides rocket propellants carbon compounds . hydrobromic acid shale oil cracking (chemical engineering) . halides storable propellants organic peroxides . . bromides synthetic fuels ... hydrobromic acid hydrochloric acid GS acids hydrocarbon poisoning . hydrochloric acid halogen compounds hydrobromides GS diseases GS halogen compounds . toxic diseases . bromine compounds . chlorine compounds . hydrocarbon poisoning . . bromides . . chlorides toxicity . . hydrobromides . . . hydrogen chlorides hydrocarbon poisoning . halides .. hydrochloric acid benzene poisoning . . bromides . halides industrial safety . hydrobromides . . chlorides ∞ poisoning hydrogen compounds ... hydrogen chlorides smog hydrobromides .... hydrochloric acid toxicity and safety hazard toxicology hydrocarbon combustion hydrochlorides GS combustion GS halogen compounds hydrocarbon combustion hydrocarbons . chlorine compounds explosions GS organic compounds . . chlorides fuel combustion hydrocarbons . hydrochlorides . . aliphatic hydrocarbons oxidation . halides propellant combustion . . . alkanes . . chlorides . . . . butanes smog . hydrochlorides . . . . cetane hydrogen chlorides hydrocarbon fuel production GS fuel production . . . . ethane . . . . heptanes hydroclimatology . hydrocarbon fuel production methane DEF The study of the physical and often the agriculture . . . . nitropropane chemical factors that characterize a particular bioconversion nonanes environment. biomass energy production energy technology . . . . octanes climatology . . . . paraffins . hydroclimatology hydrogen fuels . ceresin agroclimatology lignite pentanes hydrography solvent refined coal . neopentane hydrology waste utilization . . . . propane meteorology . . alkenes oceanography hydrocarbon fuels . . . . butenes GS fuels . . ethylene hydrocracking . chemical fuels .... vinylidene DEF Technique for the catalytic conversion . . hydrocarbon fuels . . . . hexenes of coal into liquid fuels. ... diesel fuels . . . . propylene GS chemical reactions . . . fossil fuels . . . . trienes . cracking (chemical engineering) . . . . coal . . . alkynes . . hydrocracking . . anthracite . acetylene . hydrogenolysis . . . . . lignite . . . . oxyacetylene . hydrocracking . solvent refined coal . . . dienes decomposition . . . . crude oil ... butadiene . cracking (chemical engineering) . . . . natural gas heptadiene hydrocracking . . . . . liquefied natural gas . . . . hexadiene . hydrogenolysis . . . . polybutadiene . hydrocracking . . . . peat . . . carotenoids . . . . shale oil fractionation gasoline . . carotene . hydrocracking coal gasification coal liquefaction . . . jet engine fuels . . cubane . JP-4 jet fuel cyanoacetylene . . . JP-5 jet fuel . . cyclic hydrocarbons . . . . JP-6 jet fuel . . . anthracene hydrocyanic acid hydrogen cyanides prussic acid . . . JP-7 jet fuel ... benzene UF . . . . JP-8 jet fuel . chlorobenzenes

. . . colchicine

GS

acids

. . . synthane

hydrocyanic acid Krook equation guide vanes hydrogen compounds Lagrange coordinates hulls (structures) . hydrocyanic acid mechanics (physics) hydrofoil craft nitrogen compounds ocean dynamics hydrofoil oscillations . hydrocyanic acid pressure gradients hydroplanes (surfaces) CN emission pressure heads hydroplaning **HCN** lasers landing gear seepage ship hulls marine rudders hydrodynamic coefficients thermohydraulics ships DEF The factors producing motions in floatwater skis ing objects in liquids. water flow streamlining coefficients water hammer tail assemblies . hydrodynamic coefficients water pressure hydroforming GS metal working computational fluid dynamics ∞ drag coefficients hydroelasticity flow distribution mechanical properties GS hydroforming flow velocity elastic properties RT dehydrogenation liquid flow hydroelasticity sea roughness compressibility hydrogen compressible fluids ship hulls GS chemical elements steady flow modulus of elasticity . hydrogen thermoelasticity unsteady flow . . hydrogen isotopes water waves viscoelasticity . . . deuterium ... hydrogen 4 hydrodynamic equations hydroelectric power stations . . . metallic hydrogen equations of motion hydropower stations . . . tritium . kinetic equations GS stations . . liquid hydrogen ... hydrodynamic equations . hydroelectric power stations electric power plants gases . . . Burnett equations . hydrogen electric power transmission hydroelectricity . Helmholtz vorticity equation . . hydrogen isotopes . . . deuterium RT Boltzmann transport equation ∞ power plants∞ power transmission ∞ equations ... hydrogen 4 flow stability . . . metallic hydrogen flow theory fluid mechanics turbogenerators water wheels . . . tritium . . liquid hydrogen Balmer series gas dynamics hydrodynamics hydroelectricity deuterium plasma DEF Electric power produced by water power using water wheels, turbogenerators, or other conversion equipment.

GS electricity meteorology fuels
hydrogen atoms
hydrogen ions
hydrogen plasma
hydrogenation
hydrogenolysis
hydronium ions
metallicity
Neptune atmosphere
ortho hydrogen
para hydrogen fuels plasma dynamics hydrodynamic ram effect
DEF The physical effect (force) transmitted to the walls of a liquid filled container by the action of a projectile penetrating the container and transferring its energy to the liquid as kinetic . hydroelectricity renewable energy . hydroelectricity dams energy. The fluid, in turn, transfers this kinetic energy to the walls of the container, causing electric current ∞ electric power excessive structural damage.

UF ram effect (hydrodynamics) hydroelectric power stations para hydrogen ∞ power plants Paschen series RT ∞ effects fluid filled shells turbogenerators Rydberg series synthane hydrofluoric acid ∞ hydraulics Uranus atmosphere hydrogen fluorides UF hypervelocity impact GS impact acids hydrogen 2 hydrofluoric acid kinetic energy USE deuterium liquid filled shells halogen compounds momentum transfer . fluorine compounds hydrogen 3 penetration . . fluorides USE tritium . hydrofluoric acid hydrodynamic stability . halides hydrogen 4 . . fluorides USE flow stability chemical elements ... hydrofluoric acid . hydrogen hydrodynamic tunnels . . hydrogen isotopes USE plasma jet wind tunnels hydrofoil boats . . hydrogen 4 USE hydrofoil craft . nuclides hydrodynamics . . isotopes GS fluid mechanics hydrofoil craft ... hydrogen isotopes . fluid dynamics hydrofoil boats ... hydrogen 4 . . hydrodynamics RT captured air bubble vehicles gases . . . elastohydrodynamics hydrofoils . hydrogen ... electrohydrodynamics hydroplanes (vehicles) . . hydrogen isotopes ... magnetohydrodynamics ships ... hydrogen 4 . hydromechanics . . hydrodynamics hydrofoil oscillations hydrogen air fuel cells
USE hydrogen oxygen fuel cells elastohydrodynamics oscillations ... electrohydrodynamics hydrofoil oscillations . magnetohydrodynamics flow stability RT ballast (mass) hydrogen atoms flutter hydrofoils GS atoms Earth sciences hydrogen atoms supercavitating flow Euler equations of motion H I regions flow theory hydrogen hydrofoils fluid flow GS hydrofoils fluid power hydrogen azides . keels gas dynamics airfoils GS explosives ∞ hydraulics ∞ blades . hydrogen azides nitrogen compounds . azides (inorganic) . . hydrogen azides hydroballistics elevators (control surfaces)

fins

foils (materials)

∞ foils

hydrodynamic equations

hydrostatics

internal flow

propellants

. hydrogen azides . . . . tritium water gases . hydrogen hydrogen cyanide lasers hydrogen bombs USE HCN lasers ... hydrogen isotopes USE fusion weapons . . . deuterium hydrogen cyanides ... hydrogen 4 USE hydrocyanic acid . . . metallic hydrogen hydrogen bonds . . . tritium chemical bonds GS hydrogen deuterium oxide hydrogen bonds USE heavy water hydrogen masers molecular structure DEF A stimulated emission device in which water hydrogen embrittlement hydrogen gas provides an output signal with a DEF A decrease in fracture strength of metals due to the incorporation of hydrogen in the high degree of stability and spectral purity. hydrogen chloride lasers stimulated emission devices metal lattice. USE HCL lasers . masers embrittlement . . gas masers GS hydrogen embrittlement ... hydrogen masers hydrogen chlorides chemisorption GS halogen compounds gas-metal interactions hydrogen metabolism . chlorine compounds iron The physical and chemical processes . . chlorides steels by which an organism transforms the complex ... hydrogen chlorides hydrogen components of foodstuffs into simple . . hydrochloric acid hydrogen engines hydrogen compounds by disassimilation and . halides DEF Internal combustion engines utilizing catabolism in the production of energy. . . chlorides gaseous hydrogen as the fuel. metabolism ... hydrogen chlorides GS engines . hydrogen metabolism . hydrochloric acid . air breathing engines carbohydrate metabolism RT hydrochlorides . . gas turbine engines nitrogen metabolism . . hydrogen engines oxygen metabolism . internal combustion engines respiration hydrogen clouds . . gas turbine engines secretions hydrogen clouds hydrogen engines . H I regions . turbine engines hydrogen oxygen engines . H II regions DEF Engines using liquid hydrogen as fuel and liquid oxygen as oxidizer. Used for hydrox . . gas turbine engines Orion nebula . . hydrogen engines RT ∞ clouds aircraft engines engines and lox-hydrogen engines. drop size automobiles hydrox engines galactic rotation LOX-hydrogen engines gases hydrogen fluoride lasers GS engines molecular clouds USE HF lasers . rocket engines neutral gases . . liquid propellant rocket engines plasma clouds hydrogen fluorides ... hydrogen oxygen engines spin temperature USE hydrofluoric acid J-2 engine star formation . . . . M-1 engine vapor phases hydrogen fuels . . . . RL-10-A-1 engine . . . . RL-10-A-3 engine vapors GS fuels . chemical fuels auxiliary propulsion hydrogen compounds . . liquid fuels liquid air cycle engines GS hydrogen compounds ... hydrogen fuels space station propulsion cryogenic rocket propellants deuterium . deuterium compounds turborocket engines . . deuterides . . deuterium fluorides fuel cells hydrogen oxygen fuel cells . . heavy water fuel production hydrogen air fuel cells . hydrides gaseous rocket propellants electric generators . . borohydrides gelled propellants . direct power generators . aluminum borohydrides hydrocarbon fuel production . . fuel cells hydrocarbon fuels . beryllium borohydrides . hydrogen oxygen fuel cells . . boron hydrides hydrogen-based energy electrochemical cells liquid hydrogen liquid rocket propellants . . . aluminum borohydrides . fuel cells beryllium borohydrides hydrogen oxygen fuel cells . . . boranes ramjet engines phosphoric acid fuel cells carborane slush hydrogen . hydrazine borane water splitting hydrogen perchlorate . pentaboranes GS halogen compounds hydrogen ions . . diborane . chlorine compounds . . perchlorates . . dihydrides GS ions metal hydrides . hydrogen ions ... hydrogen perchlorate . . . aluminum hydrides acidity . aluminum borohydrides H II regions hydrogen peroxide ... beryllium hydrides hydrogen GS chalcogenides cesium hydrides hydronium ions . oxides lithium hydrides . . anhydrides . lithium aluminum hydrides pH factor . . . peroxides . . . potassium hydrides positive ions . . . inorganic peroxides sodium hydrides protons hydrogen peroxide . . nitrogen hydrides . . dioxides . amino radical hydrogen isotopes . hydrogen peroxide . . phosphines GS chemical elements hydrogen compounds silanes . hydrogen hydrogen peroxide . . . chlorosilanes . . hydrogen isotopes rocket oxidizers . methyl chlorosilanes . . . deuterium . . zirconium hydrides ... hydrogen 4 hydrogen plasma . metallic hydrogen . hydrobromides GS particles . charged particles . hydrocyanic acid . . . tritium hydrogen peroxide . nuclides . . energetic particles . hydrogen sulfide ... plasmas (physics) . . isotopes ... hydrogen isotopes . hydrosulfites .... hydrogen plasma .... deuterium plasma . corpuscular radiation

. . . . hydrogen 4

. . . . metallic hydrogen

. . energetic particles

RT

. light water

∞ chemical compounds

acids

| plasmas (physics)   | hydrology   | marine chemistry   |
|---|---|--|
| hydrogen plasma   | . hydrogeology  | meteorology  |
| deuterium plasma  | RT aquifers   | oceanography   |
| RT argon plasma<br>deuterium  | core sampling<br>erosion  | polar meteorology<br>precipitation (meteorology)   |
| helium plasma   | flood plains  | rain   |
| hydrogen  | flood predictions   | streams  |
| oxygen plasma   | geysers   | structural properties (geology)  |
| solar wind  | glaciology  | water  |
| Stark effect  | hydrology models  | water management   |
| hydrogen production   | hydrostatics<br>∞ science   | water resources<br>watersheds  |
| DEF Production of hydrogen for fuel pur-  | soil erosion  | watersheds   |
| poses by photosynthetic, chemical, electrical,  | stratigraphy  | hydrology models   |
| thermal, electrochemical, or other means.   | watersheds  | DEF Mathematical or physical representa-   |
| RT electrolysis   | hudramanhu  | tions by which the circulation, distribution, and  |
| energy conversion<br>fuels  | hydrography DEF The science that deals with the physi-  | properties of the waters of the Earth can be studied.  |
| hydrides  | cal aspects of all waters on the Earth's surface,   | GS models  |
| hydrogen-based energy   | especially the compilation of navigational charts.  | . hydrology models   |
| hydrolysis  | RT geophysics   | RT climate models  |
| lignite   | hydroclimatology  | drainage   |
| solar energy conversion thermal dissociation  | hydrology<br>hydrometeorology   | floods   |
| water splitting   | ice mapping   | hydrogeology<br>hydrological cycle   |
| water opining   | limnology   | precipitation (meteorology)  |
| hydrogen recombinations   | meteorology   | rain   |
| GS recombination reactions  | ocean currents  | streams  |
| . hydrogen recombinations   | ocean surface   | water flow   |
| hydrogen sulfide  | oceanography  | hydrolycic   |
| GS chalcogenides  | hydrokinetics   | hydrolysis GS chemical reactions   |
| . sulfides  | USE hydromechanics  | . hydrolysis   |
| inorganic sulfides  |   | RT ammonolysis   |
| hydrogen sulfide  | hydrological cycle  | cracking (chemical engineering)  |
| hydrogen compounds  | UF water cycle (hydrology) GS cycles  | extraction   |
| . <b>hydrogen sulfide</b><br>sulfur compounds   | . hydrological cycle  | hydration<br>hydrogen production   |
| . sulfides  | RT air water interactions   | phosphatases   |
| inorganic sulfides  | Earth hydrosphere   | prioopriataboo   |
| hydrogen sulfide  | evaporation   | hydromagnetic flow   |
| hodes as a stan   | hydrology   | USE magnetohydrodynamic flow   |
| hydrogenation GS chemical reactions   | hydrology models<br>hydrometeorology  | hydromagnetic stability  |
|   | Hydroffieleofology  |  |
|   |   |  |
| . reduction (chemistry)   | precipitation (meteorology)   | USE magnetohydrodynamic stability  |
|   |   |  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane  | precipitation (meteorology)  hydrology (added February 1991)  | USE magnetohydrodynamic stability  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation  | precipitation (meteorology)  hydrology (added February 1991) DEF The science that deals with global wa-   | USE magnetohydrodynamic stability  hydromagnetic waves  USE magnetohydrodynamic waves  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen   | precipitation (meteorology)  hydrology (added February 1991) DEF The science that deals with global water (both liquid and solid), its properties, circula-   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation  | hydrology (added February 1991) DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's   | USE magnetohydrodynamic stability  hydromagnetic waves  USE magnetohydrodynamic waves  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen   | precipitation (meteorology)  hydrology (added February 1991) DEF The science that deals with global water (both liquid and solid), its properties, circula-   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been  | USE magnetohydrodynamic stability hydromagnetic waves USE magnetohydrodynamic waves hydromagnetics USE magnetohydrodynamics  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology   | hydrology (added February 1991) DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and eco-  | USE magnetohydrodynamic stability hydromagnetic waves USE magnetohydrodynamic waves hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics  |
| . reduction (chemistry) . hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells  | hydrology (added February 1991) DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.   | USE magnetohydrodynamic stability hydromagnetic waves USE magnetohydrodynamic waves hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience  | USE magnetohydrodynamic stability hydromagnetic waves USE magnetohydrodynamic waves hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics UF hydrokinetics  |
| . reduction (chemistry) hydrogenation  RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy  RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology   | USE magnetohydrodynamic stability hydromagnetic waves USE magnetohydrodynamic waves hydromagnetics USE magnetohydrodynamics hydromagnetism USE magnetohydrodynamics hydromechanics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology RT alluvium aquifers   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics hydrodynamics elastohydrodynamics  |
| . reduction (chemistry) hydrogenation  RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy  RT ∞ energy energy technology fuel cells gas mixtures hydrogen fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology RT alluvium aquifers climatology   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydromechanics . hydromechanics elastohydrodynamics electrohydrodynamics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen  | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrogeology RT alluvium aquifers climatology drainage   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrodynamics   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy   | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrogeology  RT alluvium aquifers climatology drainage drainage patterns  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics hydromechanics hydrodynamics i elastohydrodynamics i electrohydrodynamics i magnetohydrodynamics i hydrostatics i hydrostatics i hydrostatics i hydrostatics  |
| . reduction (chemistry) hydrogenation  RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy  RT ∞ energy energy technology fuel cells gas mixtures hydrogen fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries   | hydrology (added February 1991) DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrogeology RT alluvium aquifers climatology drainage drainage drainage drainage drainage drought  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrodynamics   |
| . reduction (chemistry) . hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis   | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrogeology  RT alluvium aquifers climatology drainage drainage patterns  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics RT fluid dynamics fluid flow   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocracking   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogracking decomposition  | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrogenolysis decomposition . hydrogenolysis hydrogenolysis . hydrogenolysis  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrostatics  RT fluid dynamics fluid flow  hydraulics kinetics  science   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions hydrogenolysis . hydrocracking   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrology hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics hydrostatics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrogenolysis decomposition . hydrogenolysis hydrogenolysis . hydrogenolysis  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrostatics  RT fluid dynamics fluid flow  hydraulics kinetics  science   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking decomposition cracking (chemical engineering) dehydrogen hydrogen hydrogen  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains floods geochemistry   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis hydrogenolysis hydrogenolysis hydrocracking decomposition . hydrogenolysis hydrocracking racking (chemical engineering) dehydrogenation   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains floods geochemistry geophysics   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrodynamics . magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis hydrocracking decomposition . hydrogenolysis hydrocracking RT cracking (chemical engineering) dehydrogen ∞ reduction  | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrology hydrology climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains floods geochemistry geophysics Great Salt Lake (UT)  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking RT cracking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT) ∞ hydraulics   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics . hydrodynamics elastohydrodynamics elactrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis hydrocracking decomposition . hydrogenolysis hydrocracking RT cracking (chemical engineering) dehydrogen ∞ reduction  | hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology hydrology hydrology climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains floods geochemistry geophysics Great Salt Lake (UT)  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking RT cracking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas GS autotrophs   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT)  hydroclimatology  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking racking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains floods geochemistry geophysics Great Salt Lake (UT)  hydrological cycle hydrometeorology   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics RT fluid dynamics fluid flow hydraulics kinetics Science water  hydrometallurgy RT chlorination electrodiallysis filtration ion exchanging leaching metallurgy precipitation precipitation (chemistry)   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogracking decomposition . hydrogenolysis hydrocracking RT cracking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT)  hydrography hydrography hydrography hydrometeorology hydrometeorology   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching metallurgy precipitation precipitation precipitation precipitation precipitation precipitation precipitation precipitation precipitation (chemistry) refining             |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocacking decomposition . hydrogenolysis . hydrocracking RT cracking (chemical engineering) dehydrogen w reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria . hydrogenomonas  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT)  ▷ hydraulics hydroclimatology hydrography hydrological cycle hydrometeorology hydrometeors ice mapping  | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics RT fluid dynamics fluid flow hydraulics kinetics Science water  hydrometallurgy RT chlorination electrodiallysis filtration ion exchanging leaching metallurgy precipitation precipitation (chemistry)   |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogracking decomposition . hydrogenolysis hydrocracking RT cracking (chemical engineering) dehydrogen ∞ reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria . hydrogenomonas hydrogeology  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT)  hydrography hydrography hydrography hydrometeorology hydrometeorology   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching ∞ metallurgy ∞ precipitation precipitation precipitation precipitation sulfation  |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocacking decomposition . hydrogenolysis . hydrocracking RT cracking (chemical engineering) dehydrogen w reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria . hydrogenomonas  | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT) ∞ hydraulics hydroclimatology hydrography hydrological cycle hydrometeorology hydrometeors ice mapping International Hydrological Decade   | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics elastohydrodynamics electrohydrodynamics magnetohydrodynamics magnetohydrodynamics magnetohydrostatics RT fluid dynamics fluid flow  hydraulics kinetics  science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching metallurgy precipitation precipitation precipitation precipitation precipitation precipitation precipitation precipitation precipitation (chemistry) refining             |
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| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking rracking (chemical engineering) dehydrogenation hydrogen ∞ reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria . hydrogenomonas  hydrogeology DEF The science that deals with subsurface waters and with related geologic aspects of surface waters. The term is also used in the more restrictive sense of ground water geology. | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT) ∞ hydraulics hydroclimatology hydrography hydrological cycle hydrometeorology hydrometeors ice mapping International Hydrological Decade Lake Erie Lake Huron Lake Michigan Lake Ontario | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydromechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrostatics RT fluid dynamics fluid flow ∞ hydraulics kinetics ∞ science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching ∞ metallurgy ∞ precipitation precipitation precipitation precipitation hydrometeorology GS meteorology . hydrometeorology . marine meteorology . marine meteorology |
| . reduction (chemistry) hydrogenation RT asphaltenes cyclohexane dehydrogenation hydrogen refining  hydrogen-based energy RT ∞ energy energy technology fuel cells gas mixtures hydrocarbon fuels hydrogen production liquid hydrogen nickel hydrogen batteries renewable energy  hydrogenolysis GS chemical reactions . hydrogenolysis . hydrocracking decomposition . hydrogenolysis . hydrocracking racking (chemical engineering) dehydrogenation hydrogen ∞ reduction  hydrogenomonas GS autotrophs . hydrogenomonas microorganisms . bacteria . hydrogenomonas hydrogeology DEF The science that deals with subsurface waters and with related geologic aspects of surface waters. The term is also used in the   | precipitation (meteorology)  hydrology (added February 1991)  DEF The science that deals with global water (both liquid and solid), its properties, circulation, and distribution, on and under the Earth's surface and in the atmosphere through evapotranspiration or is discharged into oceans. In recent years, the scope of hydrology has been expanded to include environmental and economic aspects.  UF hydroscience GS hydrology . hydrogeology  RT alluvium aquifers climatology drainage drainage patterns drought Earth hydrosphere Earth planetary structure Earth sciences flood control flood damage flood plains flood predictions floods geochemistry geophysics Great Salt Lake (UT)  hydrolimatology hydrography hydrological cycle hydrometeorology hydrometeors ice mapping International Hydrological Decade Lake Erie Lake Michigan                                      | USE magnetohydrodynamic stability  hydromagnetic waves USE magnetohydrodynamic waves  hydromagnetics USE magnetohydrodynamics  hydromagnetism USE magnetohydrodynamics  hydromechanics UF hydrokinetics GS fluid mechanics . hydrodynamics . elastohydrodynamics . electrohydrodynamics . magnetohydrodynamics . magnetohydrostatics  RT fluid dynamics fluid flow hydraulics kinetics science water  hydrometallurgy RT chlorination electrodialysis filtration ion exchanging leaching metallurgy precipitation precipitation precipitation precipitation hydrometeorology GS meteorology GS meteorology hydrometeorology GS meteorology hydrometeorology                      |

|                 | hydrological cycle                                      |              | water landing                             |                   | . hydrosulfites                        |
|-----------------|---|--------------|---|-------------------|--|
|                 | hydrology   |              |   |                   | sulfur compounds                       |
|                 | precipitation (meteorology)                             | hydrop       |   |                   | . sulfites                             |
|                 | water balance   |              | Growing of plants in a nutrient with the  |                   | hydrosulfites                          |
|                 |   |              | nical support of an inert medium such as  | المعادية والمعادة | armal arrestal arrayeth                |
| hydrom          |   | sand.<br>RT  | agriculture                               | GS                | ermal crystal growth<br>growth         |
|                 | ed March 1995)  A minute droplet of water or crystal of | IXI          | aquatic plants                            | 00                | . crystal growth                       |
|                 | ng through or suspended in the atmo-                    |              | aquiculture                               |                   | hydrothermal crystal growth            |
| sphere.         | ig anough or outpoiled in the dame                      |              | plants (botany)                           | RT                | electroepitaxy                         |
| GS              | condensates   |              | vegetation growth                         |                   | . ,                                    |
|                 | . hydrometeors  |              |   |                   | ermal stress analysis                  |
| RT              | atmospheric moisture                                    |              | ower stations                             |                   | The evaluation of the combined effects |
|                 | dew   | USE          | hydroelectric power stations              |                   | erature-humidity cycling.              |
|                 | drops (liquids)   | hydror       | pyrolysis                                 | RT                | hydrothermal systems                   |
|                 | fog   | , ,          | A coal-to-liquid process in which bitu-   |                   | hygral properties<br>hygroscopicity    |
|                 | hydrology<br>ice nuclei                                 |              | coal, lignite, tars, sand and related ma- |                   | moisture content                       |
|                 | precipitation (meteorology)                             |              | are rapidly heated to 1000-1100 degrees   |                   | moisture resistance                    |
|                 | prosipilation (motoerelegy)                             | K in pr      | essurized hydrogen gasification reactors  |                   |  |
| hydrom          | eters   |              | erate pure methane.                       |                   | ermal systems                          |
| DEF             | Instruments used for measuring the                      | GS           | 0   |                   | Energy systems utilizing hot water     |
| specific        | gravity of a liquid.                                    |              | . coal gasification                       |                   | ysers, hot springs, solar heating, and |
| GS              | measuring instruments                                   | рт           | hydropyrolysis                            | other so          |  |
|                 | hydrometers   | RT           | coal coal liquefaction                    | KI                | aquifers energy conversion             |
| RT              | chemical analysis                                       |              | lignite                                   |                   | geothermal resources                   |
|                 | density (mass/volume)                                   |              | methanation                               |                   | geysers                                |
|                 | density measurement weight measurement                  |              | methane                                   |                   | heating                                |
|                 | weight measurement                                      |              |   |                   | hydrothermal stress analysis           |
| hydroni         | ium ions  | hydros       |   |                   | solar heating                          |
| GS              | ions  | USE          | hydrology                                 |                   | submarine hydrothermal vents           |
|                 | . molecular ions  |              |   | ~                 | systems                                |
|                 | hydronium ions  | hydros       |   | la                |  |
|                 | . positive ions   | USE          | hydroplanes (surfaces)                    | hydrox            | engines<br>hydrogen oxygen engines     |
|                 | hydronium ions  | hvdros       | ohere (Earth)                             | USL               | nydrogen oxygen engines                |
| RT              | hydrogen  |              | Earth hydrosphere                         | hydroxi           | des                                    |
|                 | hydrogen ions   |              |   | GS                |  |
| h. ral n a sa l | habiait.  | hydros       | pinning                                   |                   | . lithium hydroxides                   |
|                 | h <b>obicity</b><br>ed June 2000)                       | GS           | forming techniques                        |                   | . potassium hydroxides                 |
| •               | The degree to which a substance is                      |              | . metal spinning                          |                   | . sodium hydroxides                    |
|                 | e in water, or resists wetting or hydration.            |              | hydrospinning                             | RT                | alkalies                               |
|                 | hygral properties                                       |              | metal working                             | hudrov            | vaartiaastaraid                        |
|                 | hydrophobicity  |              | . metal spinning hydrospinning            |                   | ycorticosteroid<br>organic compounds   |
| RT              | adsorption  |              | spin                                      | 63                | . lipids                               |
|                 | chemical properties                                     |              | . metal spinning                          |                   | steroids                               |
|                 | hydration   |              | hydrospinning                             |                   | corticosteroids                        |
|                 | hygroscopicity  |              | ,   |                   | hydroxycorticosteroid                  |
|                 | moisture resistance                                     | hydros       | tatic pressure                            |                   | cortisone                              |
| ~               | properties<br>solubility                                | DEF          | A state of stress in which all the prin-  |                   | secretions                             |
|                 | sorption  |              | resses are equal (and there is no shear   |                   | . endocrine secretions                 |
|                 | surface properties                                      | stress)      |   |                   | hormones                               |
|                 | surfactants   | GS           | pressure                                  |                   | corticosteroids                        |
|                 | waterproofing   |              | . static pressure                         |                   | hydroxycorticosteroid                  |
|                 | wettability   | RT           | hydrostatic pressure center of pressure   | RT                | adrenal metabolism                     |
|                 | wetting   | 131          | elevation                                 | 101               | darenar metabolism                     |
|                 |   |              | head (fluid mechanics)                    | hvdroxy           | /I compounds                           |
| hydropl         |   |              | hydrostatics                              |                   | hydroxyl compounds                     |
| DEF             | Microphones suitable for use in water                   |              | isostatic pressure                        |                   | . alcohols                             |
| or other<br>UF  | liquid. Used for hydrobarophones.  hydrobarophones      |              | pressure dependence                       |                   | ethyl alcohol                          |
| GS              | transducers   |              | pressure heads                            |                   | glycols                                |
| 00              | . sound transducers                                     |              | transition pressure                       |                   | isopropyl alcohol                      |
|                 | electroacoustic transducers                             |              | water pressure                            |                   | methyl alcohol                         |
|                 | hydrophones   | hydros       | tatics                                    |                   | phenols bisphenols                     |
| RT              | microphones   | GS           | fluid mechanics                           |                   | cresols                                |
|                 | sonar   | 00           | . hydromechanics                          |                   | phloroglucinol                         |
|                 | sonobuoys   |              | hydrostatics                              |                   | thymol                                 |
|                 |   |              | magnetohydrostatics                       |                   | polývinyl alcohol                      |
|                 | anes (surfaces)   |              | statics                                   |                   | triols                                 |
| UF              | hydroskis   |              | hydrostatics                              |                   | cyanuric acid                          |
| RT              | hydrofoils<br>hydroplaning                              | DT           | magnetohydrostatics                       | RT ∝              | chemical compounds                     |
|                 | skis  | RT           | aerostatics                               |                   | organic compounds                      |
| ~               | systems   |              | elevation                                 | hydrovi           | yl emission                            |
|                 | -,  |              | head (fluid mechanics)<br>∞ hydraulics    |                   | electromagnetic radiation              |
| hydropl         | anes (vehicles)   |              | hydrodynamics                             | 00                | . radio waves                          |
|                 | hydrofoil craft   |              | hydrogeology                              |                   | radio emission                         |
|                 | hydroplaning  |              | hydrostatic pressure                      |                   | hydroxyl emission                      |
| ~               | vehicles  |              | isostasy                                  |                   | emission                               |
|                 |   |              | pressure gradients                        |                   | . radio emission                       |
| hydropl         |   |              | pressure heads                            |                   | hydroxyl emission                      |
| RT              | hydrofoils  |              | water                                     | RT                | emission spectra                       |
|                 | hydroplanes (surfaces)                                  |              | water pressure                            |                   | radio sources (astronomy)              |
|                 | hydroplanes (vehicles)                                  | hudea        | ulfitos                                   | hudron            | d radicals                             |
|                 | skid landings<br>skidding                               | hydros<br>GS | hydrogen compounds                        |                   | yl radicals<br>radicals                |
|                 | Skidding  | 63           | nyarogen compounds                        | 93                | radiodia                               |

. free radicals

. hydroxyl radicals

alcohols

formyl ions

glycols

# hydroxylamine sulfate

organic compounds

. amines

. hydroxylamine sulfate

sulfur compounds

. sulfates

. . hydroxylamine sulfate

#### hydroxylammonium perchlorates

ammonium compounds

. hydroxylammonium perchlorates

halogen compounds . chlorine compounds

. . perchlorates

. . . hydroxylammonium perchlorates

#### hygiene

GS hygiene

oral hygiene

bathing

cleanliness

consumables (spacecrew supplies)

health

housekeeping (spacecraft)

public health sanitation

hygral properties

DEF The affinity of something for moisture.

GS hygral properties

. hydrophobicity

RT humidity

hydrothermal stress analysis

moisture

porosity ∞ properties

hygrometers

DEF Instruments for measuring the humid-

ity of the atmosphere.

measuring instruments
. moisture meters GS

. . hygrometers . . . psychrometers chemical analysis RT

dew point

humidity

humidity measurement

meteorological instruments

hygroscopicity

chemical properties

hydrophobicity hydrothermal stress analysis

material absorption

moisture content

moisture resistance

∞ physical properties

solubility wettability

# Hyla-Star rocket vehicle

launch vehicles

. Hyla-Star rocket vehicle

rocket vehicles

. single stage rocket vehicles

. Hyla-Star rocket vehicle

liquid propellant rocket engines

Titan 2 ICBM

# Hylleraas coordinates

coordinates GS

Hylleraas coordinates

quantum mechanics two body problem

hvoscine

UF

scopolamine GS bases (chemical)

. alkaloids

. . hyoscine

epoxy compounds

hyoscine

nitrogen compounds

alkaloids

. hyoscine

organic compounds

. amines

. hyoscine

. cyclic compounds

. . heterocyclic compounds

. . . alkaloids

. . . . hyoscine

# hyperbaric chambers

DEF Chambers used to induce a decrease in ambient pressure as would occur in ascending to altitude. This type of chanber is primarily used for training and experimental purposes. It is also called an altitude chamber or a decompression chamber.

GS compartments

. test chambers

. . pressure chambers

hyperbaric chambers

RT ∞ chambers

high pressure

vacuum chambers

# hyperbolas

Open curves with two branches, all points of which have a constant difference in distance from two fixed points called focuses.

GS geometry

Euclidean geometry

. . analytic geometry

. . . conics

... hyperbolas

RT hyperbolic trajectories

#### hyperbolic coordinates

hyperbolic space

GS coordinates

hyperbolic coordinates

hyperbolic differential equations GS analysis (mathematics)

. real variables

. . differential equations
. . hyperbolic differential

# equations

RT Dirichlet problem

∞ equations

essentially non-oscillatory schemes

wave equations

# hyperbolic functions

GS analysis (mathematics) . complex variables

hyperbolic functions . real variables

. hyperbolic functions

functions (mathematics)

hyperbolic functions exponential functions

∞ hyperbolic systems

method of characteristics

orthogonal functions Riemann waves

Riesz theorem

# hyperbolic navigation

DEF Radio navigation in which a hyperbolic line of position is established by signals received from two stations at a constant time difference.

GS navigation

. radio navigation

. . hyperbolic navigation

... Decca navigation LORAC navigation system

. . . loran

. . . . loran C

. . . . loran D

. . Shoran

RT air navigation ∞ hyperbolic systems inertial navigation surface navigation

# hyperbolic reentry

GS atmospheric entry

. reentry

. hyperbolic reentry

reentry trajectories

hyperbolic space

USE hyperbolic coordinates

# ∞ hyperbolic systems

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

hyperbolic functions

hyperbolic navigation ∞ systems

# hyperbolic trajectories

GS trajectories

hyperbolic trajectories

celestial mechanics escape velocity

hyperbolas spacecraft trajectories

hyperbranched polymers (added October 2000)

USE dendrimers

hypercapnia carbon dioxide tension GS

hypercapnia

RT blood

∞ breathing

respiratory rate respiratory system

# hypercube multiprocessors

DEF Distributed-memory, message-passing multiprocessors designed to reduce the number of interconnections compared to the number of processors. Other simple geometries such as rings, meshes, or trees of processors can be embedded in hypercubes.

GS data processing equipment

. computers hypercube multiprocessors

architecture (computers) interprocessor communication

multiprocessing (computers)

parallel computers parallel processing (computers)

sorting algorithms supercomputers

hyperfine structure RT atomic structure

fine structure

spectrum analysis

line spectra muon spin rotation

∞ structures

hypergeometric functions

Jacobi polynomials analysis (mathematics) GS

. complex variables hypergeometric functions

functions (mathematics) . hypergeometric functions
Bessel functions geometry

hyperspaces

hypergeometry ÚSE hyperspaces

# hyperglycemia

metabolism

hypergolic rocket propellants GS propellants

. carbohydrate metabolism

. . hyperglycemia

. rocket propellants . . liquid rocket propellants

. . . hypergolic rocket propellants cryogenic rocket propellants gelled rocket propellants hybrid propellants

hydrocarbon fuels monomethylhydrazines pyrophoric materials

solid propellant ignition . hyperopia shock waves spontaneous combustion eye diseases supersonic flow storable propellants wind tunnels hypergravity hyperoxia hypersonic forces (added June 2001) DEF A condition in which the total oxygen GS aerodynamic forces USE high gravity environments content of the body is increased above that . hypersonic forces normally existing at sea level. Used for oxygen aerodynamic drag hypersonics One of the natural satellites of Saturn UF oxygen toxicity orbiting at a mean distance of 1,481,000 kilomehyperventilation oximetry hypersonic gliders GS celestial bodies oxygen consumption DEF Unpowered vehicles, specifically reen-. natural satellites toxic diseases try vehicles, designed to flow at hypersonic . . icy satellites toxicity . Hyperion gliders . . Saturn satellites hyperplanes . hypersonic gliders . Hyperion analysis (mathematics) . X-20 aircraft Saturn (planet) . real variables hypersonic vehicles . hyperplanes . hypersonic aircraft hyperkinesia . . hypersonic gliders hyperspaces DEF Excessive exercise, that is often acpolytopes . . X-20 aircraft companied by uncontrollable muscular move-RT aerospace planes set theory ∞ aircraft physical exercise ASSET gliders hyperpnea hyperkinesia RT ∞ breathing boostglide vehicles exhaustion respiratory rate HL-10 reentry vehicle fatigue (biology) HLD-35 reentry vehicle hypokinesia hypersomnia lifting reentry vehicles stress (physiology) sleep paragliders work capacity hypersomnia hypersonic heat transfer hypersonic aircraft hypermedia . GS transmission ÚSE multimedia hypersonic vehicles . heat transmission . hypersonic aircraft . . heat transfer . . . aerodynamic heat transfer hypernea . . hypersonic gliders RT mental performance . . . X-20 aircraft ... hypersonic heat transfer RT aerospace planes aerothermodynamics hypernuclei ∞ aircraft hypersonics GS particles boostglide vehicles supersonic heat transfer . charged particles hypersonics . . energetic particles jet aircraft hypersonic inlets ... nuclei (nuclear physics) ∞ low wing aircraft GS intake systems .... hypernuclei research aircraft . air intakes . . hypersonic inlets
RT bypass ratio
∞ diffusers . corpuscular radiation supersonic aircraft . . energetic particles sweptback tail surfaces . . . nuclei (nuclear physics) sweptback wings ... hypernuclei trapezoidal tail surfaces engine inlets inlet airframe configurations elementary particles radioactive decay hypersonic boundary layer nose inlets boundary layers GS side inlets hypersonic boundary layer hyperons supersonic inlets DEF In the classification of subatomic parlaminar boundary layer ticles according to mass, the heaviest of such particles. Some large and highly unstable comthermal boundary layer turbulent boundary layer hypersonic nozzles RT conical nozzles ponents of cosmic rays are hyperons. ∞ nozzles GS particles hypersonic combustion rocket nozzles . elementary particles GS combustion supersonic nozzles . . bosons hypersonic combustion transonic nozzles ... mesons erosive burning RT wind tunnel nozzles . . . . hyperons fuel combustion . . . xi hyperons hypersonic reentry . . fermions hypersonic flight GS atmospheric entry . . . barvons RT aerodynamics ∞ flight . . hyperons . . hypersonic reentry . . xi hyperons hypersonics . . uncontrolled reentry (spacecraft) missiles . . hadrons aerodynamic heating ... baryons rocket flight aerothermodynamics . . hyperons supersonic flight Berenice rocket vehicle . . . . xi hyperons waveriders boundary layer plasmas . . . mesons X-43 vehicle entry guidance (STS) .... hyperons reentry effects . xi hyperons hypersonic flow reentry physics . nuclear particles DEF In aerodynamics, flow of a fluid over a spacecraft reentry . . bosons body at speeds much greater than the speed of . . . mesons sound and in which the shock waves start at a hypersonic shock .... hyperons finite distance from the surface of the body. hypersonics Mach cones GS fluid flow . . . . xi hyperons antiparticles . hypersonic flow noise (sound) baryon resonance aerodynamics shock waves charged particles Burnett equations meson resonance cascade wind tunnels hypersonic speed compressible flow nucleons (MACH 5 OR GREATER) rates (per time) strangeness flow velocity . hypersonic speed gas flow hypersonics velocity hyperopia hypervelocity wind tunnels . hypersonic speed high speed hypersonics acuity GS Lighthill gas model . visual acuity shock tubes . hyperopia

shock tunnels

∞ hypervelocity

defects

supersonic speed real variables meteoritic damage point impact hypersonic test apparatus hypertensin projectile cratering hypersonics GS drugs Tempel 1 comet hypervelocity wind tunnels . vasoconstrictor drugs missile ranges . hypertensin hypervelocity launchers GS launchers supersonic test apparatus organic compounds . hypervelocity launchers ∞ test equipment . peptides . . polypeptides gun launchers hypersonic vehicles . hypertensin railgun accelerators GS hypersonic vehicles secretions ram accelerators . hypersonic aircraft . endocrine secretions . . hypersonic gliders . . hormones hypervelocity projectiles . X-20 aircraft ... hypertensin hypervelocity cratering . X-30 vehicle projectiles . X-37 vehicle hypertension hypervelocity projectiles X-43 vehicle GS pressure RT ∞ bombardment RT ∞ flight vehicles . blood pressure Deep Impact Mission HOPE aerospace plane . hypertension light gas guns myocardial infarction hypersonics RT meteoroids ∞ insulated structures tranquilizers micrometeorites National Aerospace Plane Program projectile cratering recoverable spacecraft hypertext simulation . (added July 1995) reentry vehicles Tempel 1 comet artificial intelligence ∞ spacecraft document markup languages test vehicles hypervelocity wind tunnels ∞ vehicles electronic publishing (ABOVE MACH 10) waveriders human-computer interface test facilities information retrieval ∞ winged vehicles . wind tunnels knowledge representation ... hypervelocity wind tunnels hypersonic wakes ... cascade wind tunnels GS wakes hyperthermia hotshot wind tunnels hypersonic wakes RT body temperature ... plasma jet wind tunnels aircraft wakes fever . shock tunnels bow waves heat stroke RT blowdown wind tunnels skin temperature (biology) hypersonics combustion wind tunnels shock waves thermoregulation hypersonic flow supersonic wakes hypersonic test apparatus hypertonia hypersonic wind tunnels ÚSE osmosis hypersonic wind tunnels low density wind tunnels GS test facilities magnetic pistons hypertrophy . wind tunnels shock tubes USE growth . . hypersonic wind tunnels supersonic wind tunnels . . . cascade wind tunnels . . . hotshot wind tunnels hypervelocity (USE OF A MORE SPECIFIC TERM IS RECOMMENDED CONSULT THE TERMS LISTED BELOW)
Extremely high velocity. Applied by hyperventilation SN . . . plasma jet wind tunnels DEF Overbreathing. A respiratory minute . . shock tunnels volume, or pulmonary ventilation that is greater RT blowdown wind tunnels than normal. combustion wind tunnels physicists to speeds approaching the speed of RT acidosis hypervelocity wind tunnels light, but generally implies speeds of the order of alkalosis low density wind tunnels satellite speed and greater. hyperoxia magnetic pistons escape velocity shock tubes hypersonic speed hypervolemia subsonic wind tunnels orbital velocity blood circulation supersonic wind tunnels RT relativistic velocity transonic wind tunnels blood volume circulatory system hypervelocity accelerators hypersonics USE hypervelocity guns That branch of aerodynamics that hypnosis deals with hypersonic flow. hypervelocity cratering GS sleep GS fluid mechanics USE hypervelocity projectiles hypnosis . fluid dynamics projectile cratering anesthesia . . gas dynamics suggestion ... aerodynamics hypervelocity flow ... hypersonics fluid flow GS hypobaric atmospheres aerothermodynamics hypervelocity flow RT altitude simulation hypersonic aircraft flow velocity altitude tolerance hypersonic flight supersonic flow ∞ atmospheres hypersonic flow high altitude breathing hypersonic forces hypervelocity guns high altitude environments hypersonic heat transfer UF hypervelocity accelerators high altitude pressure hypersonic shock RT ∞ accelerators low pressure hypersonic speed ballistics vacuum tests hypersonic test apparatus gas guns hypersonic vehicles ∞ guns hypocapnia hypersonic wakes guns (ordnance) DEF Deficiency of carbon dioxide in the supersonic speed railgun accelerators blood and body tissues, which may result in supersonics ram accelerators dizziness, confusion, and muscular cramps. GS carbon dioxide tension hypervelocity impact hyperspaces . hypocapnia hypergeometry GS impact RT blood hypergeometric functions hypervelocity impact asteroid collisions hyperplanes hypodermis hyperspheres cometary collisions

Deep Impact Mission

impact melts

impact velocity

mechanical shock

meteorite collisions

hydrodynamic ram effect

phase-space integral

∞ space

geometry

hyperspaces

hyperspheres

RT

GS tissues (biology)

muscles

hypodynamia

RT

. hypodermis

hindlimb suspension

# hypoelasticity

|          | muscular function                | RT       | assumptions                               |         | a physiologically inadequate amount of      |
|----------|----------------------------------|----------|---|---------|---|
| hypoolog | atioity                          |          | inference                                 |         | is available to, or utilized by, tissue     |
| hypoelas |                                  |          | mathematical logic                        |         | respect to cause or degree. Used for        |
|          | mechanical properties            |          | quality control                           |         | deficiency.                                 |
|          | . elastic properties             |          | theorems                                  | UF      | oxygen deficiency                           |
|          | hypoelasticity                   |          | ∞ theories                                | RT      | anoxia                                      |
|          |                                  |          | theses                                    |         | fasting                                     |
| hypogly  |                                  |          |   |         | hypoxemia                                   |
|          | metabolism                       | hypoth   | etical particles                          |         | necrosis                                    |
|          | . carbohydrate metabolism        | (add     | led November 1999)                        |         | oximetry                                    |
|          | hypoglycemia                     | GS       | particles                                 |         | oxygen consumption                          |
|          |                                  |          | . elementary particles                    |         | stress (physiology)                         |
| hypograv | vity                             |          | . hypothetical particles                  |         | ,,  |
| (adde    | d June 2001)                     |          | gluons                                    | hypsog  |   |
| USE      | microgravity                     |          | gravitinos                                | GS      | 0 0 1 7                                     |
|          | • ,                              |          | gravitons                                 |         | . hypsography                               |
| hypokine | esia                             |          | partons                                   | RT      | contours                                    |
|          | glucocorticoids                  |          | quarks                                    |         | datum (elevation)                           |
|          | head down tilt                   |          | tachyons                                  |         | elevation                                   |
|          | hindlimb suspension              |          |   |         | mapping                                     |
|          | hyperkinesia                     |          | weakly interacting massive                |         | maps  |
|          |                                  |          | particles                                 |         | relief maps                                 |
|          | muscular function                |          |   |         | topography                                  |
|          | musculoskeletal system           |          | etical planets                            |         | topograpity                                 |
|          | physical exercise                |          | led June 1998)                            | hypsor  | neters                                      |
|          |                                  | UF       | Phaethon (hypothetical planet)            | GS      | measuring instruments                       |
| hypomet  |                                  |          | planet X                                  |         | . hypsometers                               |
| GS       | metabolism                       |          | rogue planets                             | RT      | altimeters                                  |
|          | . hypometabolism                 |          | transplutonic planets                     |         | barometers                                  |
| RT       | thyroid gland                    | GS       | celestial bodies                          |         | meteorological instruments                  |
|          |                                  |          | . planets                                 |         |   |
| hypophys | sis                              |          | hypothetical planets                      |         | pressure gages                              |
|          | pituitary gland                  | RT       | comets                                    | hystere | esis  |
|          | F 9                              | IXI      |   | DEF     | Any of several effects resembling a         |
| hypotens | sion                             |          | extrasolar planets                        |         | internal friction, accompanied by the       |
|          | pressure                         |          | planetary orbits                          |         | tion of heat within the substance affected. |
|          | . blood pressure                 |          |   |         | ay of an indicator in registering a change  |
|          |                                  | hypoto   |   |         | rameter being measured.                     |
|          | hypotension                      | GS       | muscular tonus                            |         |   |
| ΚI       | hemorrhages                      |          | . hypotonia                               | RT      | accuracy                                    |
|          |                                  | RT       | muscular function                         |         | antiferroelectricity                        |
| hypothal |                                  |          |   |         | antiferromagnetism                          |
|          | anatomy                          | hypove   | entilation                                |         | damping                                     |
|          | . glands (anatomy)               | DEF      | A respiratory minute volume, or pulmo-    |         | dynamic characteristics                     |
|          | endocrine glands                 | nary ve  | entilation that is less than normal. Also |         | eddy currents                               |
|          | hypothalamus                     | called ι | underbreathing.                           |         | electrical properties                       |
|          | . nervous system                 |          | rates (per time)                          |         | errors                                      |
|          | central nervous system           |          | . respiratory rate                        |         | internal friction                           |
|          | brain                            |          | hypoventilation                           |         | magnetic permeability                       |
|          | diencephalon                     |          | Hypoventillation                          |         | magnetic properties                         |
|          | hypothalamus                     | hypovo   | Nomia                                     |         | mechanical properties                       |
|          | pituitary gland                  | RT       | blood circulation                         |         | optical bistability                         |
| IXI      | pituitary giariu                 | KI       |   |         | ∞ physical properties                       |
| h. matha | i-                               |          | blood volume                              |         | precision                                   |
| hypothe  |                                  |          |   |         |   |
|          | body temperature                 | hypoxe   |   |         | retarding                                   |
|          | skin temperature (biology)       |          | The condition of reduction of the nor-    |         | shear properties                            |
|          | thermoregulation                 |          | gen tension in the blood.                 |         | tensile strength                            |
|          |                                  | GS       |   |         | time lag                                    |
| hypothe  |                                  |          | . partial pressure                        |         | tolerances (mechanics)                      |
| GS       | hypotheses                       |          | oxygen tension                            |         | viscoelasticity                             |
|          | expectancy hypothesis            |          | hypoxemia                                 |         | viscoplasticity                             |
|          | . intermittency hypothesis       | RT       | hypoxia                                   | LIVTIA  | E   |
|          | . Lagrange similarity hypothesis |          | • •                                       | HYTIMI  |   |
|          | . null hypothesis                | hypoxi   | a   | USE     | document markup languages                   |
|          | . vorticity transport hypothesis | DEF      | Oxygen want or deficiency; any state      |         |   |
|          | A                                |          | ,   |         |   |

- . vorticity transport hypothesis

ice clouds (added March 1989) GS clouds (meteorology) . ice clouds cloud glaciation ∞ clouds ice

(added July 2001)

USE polynyas

GS

RT curved beams trusses

#### I2S cameras

optical equipment GS

spacecraft instruments

#### lapetus

distance of 3,562,000 kilometers.

GS celestial bodies

# IBM 360 computer

# IBM 370 computer

GS data processing equipment

# IBM 650 computer

GS data processing equipment

# IBM 704 computer

GS data processing equipment

# IBM 709 computer

GS data processing equipment

# IBM 1130 computer

GS data processing equipment

# IBM 1401 computer

GS data processing equipment

. computers

. . digital computers . IBM 1401 computer

IBM computers

... IBM 1401 computer

# IBM 1410 computer

GS data processing equipment

# **IBM** computers

data processing equipment

. computers

... IBM computers

... IBM 360 computer IBM 370 computer

... IBM 650 computer IBM 704 computer

... IBM 709 computer

IBM 1130 computer ... IBM 1401 computer

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|                           | stratosphere  |           | polar meteorology                           |          | icosahedrons  |
|---------------------------|---|-----------|---|----------|---|
|                           | •   |           | space surveillance (spaceborne)             | 100.140  |   |
|                           | ironments   |           | surveillance                                |          | (spectrometry)                                      |
| UF                        | Antarctic environment   |           |   |          | ed March 2001)                                      |
|                           | Arctic environments   | ice she   | lves  | USE      | inductively coupled plasma mass                     |
| GS                        | environments  |           | land ice                                    |          | spectrometry  |
| БТ                        | ice environments  | 002       |   |          | -11:4   |
| RT                        | Earth cryosphere  |           |   | icy sate |   |
|                           | environment effects   |           | oud and Land Elevation Satellite            | GS       | celestial bodies                                    |
|                           | marine environments   |           | led December 2002)                          |          | . natural satellites                                |
|                           | planetary cryospheres   |           | Earth Observing System satellite and        |          | icy satellites                                      |
|                           | sea ice   |           | designed to measure Earth's ice sheet       |          | Ariel   |
| : (!                      | _   |           | palance, cloud and aerosol heights, as      |          | Callisto  |
| ice floe                  |   |           | land topography and vegetation charac-      |          | Dione   |
|                           | Large fragments or extensive sheets of ached and floating freely in open water. | teristics |   |          | Enceladus   |
| GS                        | ice   |           | ICESat                                      |          | Europa  |
| GS                        |   | GS        | artificial satellites                       |          | Ganymede  |
|                           | . lake ice<br>ice floes   |           | . scientific satellites                     |          | Hyperion  |
|                           | . sea ice   |           | Ice, Cloud and Land Elevation               |          | lapetus<br>Mimas                                    |
|                           |   |           | Satellite                                   |          |   |
| рт                        | ice floes   | RT        | Earth Observing System (EOS)                |          | Rhea (astronomy)                                    |
| RT                        | oceanography  |           | laser altimeters                            |          | Tethys<br>Titania                                   |
| ice form                  | nation  |           | satellite altimetry                         | RT       |   |
| UF                        | icing   |           |   | KI       | extraterrestrial water                              |
| GS                        | ice formation   | iceberg   | 18  |          | Galilean satellites                                 |
| 03                        | . aircraft icing  |           | Large, massive pieces of floating or        |          | Jupiter satellites satellite surfaces               |
|                           |   |           | d glacier ice of any shape, detached        |          |   |
| RT                        | . cloud glaciation  |           | ) from the front of glaciers into a body of |          | Saturn satellites                                   |
| KI                        | bay ice fouling   |           | Icebergs extend more than 5 m above         | Ida ast  | eroid   |
|                           |   |           | rel and have the greater part of their      |          | erola<br>led December 1995)                         |
|                           | freezing  |           | s (4/5 to 8/9) below sea level. They may    |          | celestial bodies                                    |
|                           | graupel   |           | length of more than 80 km.                  | GS       |   |
|                           | hail  |           | ice   |          | . asteroids   |
|                           | lake ice  | 00        | . sea ice                                   | рт       | Ida asteroid  |
|                           | low temperature   |           | . icebergs                                  | KI       | asteroid belts                                      |
|                           | pressure ice  |           | resources                                   |          | Galileo spacecraft meteoroids                       |
|                           | sea ice   |           | . Earth resources                           |          | meteoroids  |
|                           | snow  |           | . icebergs                                  | Idaho    |   |
| ioo ma                    | oning   | RT        | ice reporting                               | GS       | nations   |
| ice ma <sub>l</sub><br>GS |   | IXI       | land ice                                    | GS       | . United States                                     |
| GS                        | mapping   |           | latiu ice                                   |          | Idaho   |
| RT                        | . ice mapping   |           |   | рт       | Columbia River Basin (ID-OR-WA)                     |
| KI                        | aerial photography  | Iceland   | 1   | KI       | Yellowstone National Park                           |
|                           | bay ice   | GS        | landforms                                   |          |   |
|                           | Earth resources   |           | . islands                                   |          | (ID-MT-WY)  |
|                           | hydrology   |           | Iceland                                     | ideal fl | uide  |
|                           | hydrology   |           | nations                                     | RT       | compressible fluids                                 |
|                           | infrared photography  |           | . Iceland                                   | KI       |   |
|                           | oceanography  | RT        | Europe                                      |          | equations of state<br>∞ fluids                      |
|                           | photogeology  |           | Icelandic space program                     | c        | incompressible fluids                               |
|                           | photography   |           |   |          | •   |
|                           | photomapping  |           |   |          | Mollier diagram                                     |
|                           | sea ice   |           | lic space program                           | ideal g  | ae .  |
|                           | space surveillance (spaceborne)   |           | led August 1990)                            |          | A gas which conforms to Boyle's lav                 |
|                           | surveillance  | GS        | programs                                    |          |   |
|                           | la:   |           | . space programs                            |          | s zero heat of free expansion (or also              |
| ice nuc                   |   |           | European space programs                     |          | Charles' law). Used for perfect gas.<br>perfect gas |
| RT                        | Aitken nuclei   |           | Icelandic space program                     | GS       | gases   |
|                           | cloud glaciation  | RT        | Iceland                                     | GS       | 9   |
|                           | condensation nuclei   |           |   | DT       | . ideal gas   |
|                           | freezing  | ICESat    |   | RT       | Bose-Einstein condensates Dalton law                |
|                           | graupel   |           | led December 2002)                          |          |   |
|                           | hydrometeors  | ,         | Ice, Cloud and Land Elevation               |          | equations of state                                  |
|                           | nucleation  | 301       | Satellite                                   |          | gas density   |
| c                         | ∘ nuclei  |           |   |          | kinetic theory                                      |
| ico cho                   | ervation  |           |   |          | kinetics<br>real gases                              |
|                           |   | ichthyd   |   |          | real gases  |
| USE                       | ice reporting   | RT        | fishes                                      | idontifu | friand or foo                                       |
| ice pac                   | ke  |           | schools (fish)                              |          | friend or foe  IFF systems (identification)         |
| USE                       | sea ice   |           |   | USL      | irr systems (identification)                        |
| USL                       | Sea ice   | icing     |   | identify | vina  |
| ice pro                   | vention   | USE       | ice formation                               |          | identifying   |
| GS                        | prevention  | 002       | 100 formation                               | 63       | . crop identification                               |
| 00                        | . ice prevention  |           |   |          | . IFF systems (identification)                      |
| RT                        |   |           | mputers                                     |          | . parameter identification                          |
| 13.1                      | aircraft icing antiicing additives  |           | Family of British digital computers pro-    |          | . rapid ballistics identification                   |
|                           | defrosting  |           | by International Computers, Ltd. Used for   |          | . system identification                             |
|                           | deicers   |           | tional Computers Limited.                   |          | . timber identification                             |
|                           |   |           | International Computers Limited             | DT       |   |
|                           | deicing   | GS        | data processing equipment                   | KI       | chemical analysis                                   |
|                           | heat tapes  |           | . computers                                 |          | coding  |
|                           | heating   |           | digital computers                           |          | cognition   |
|                           | melting   |           | ICL computers                               |          | detection   |
|                           | storm suppression   | RT        | European Space Agency                       |          | gas detectors                                       |
| ico rom                   | orting  |           |   |          | inspection  |
| ice rep                   |   | icasst    | odrono                                      |          | marking   |
| UF                        | ice observation   | icosah    |   | c        | ∞ measurement                                       |
| RT                        | bay ice   | GS        | geometry                                    |          | missile detection                                   |
|                           | icebergs  |           | . Euclidean geometry                        |          | particulate sampling                                |
|                           | meteorological flight   |           | polyhedrons                                 |          | perception  |

|           | recognition   |                | tourmaline   |                 | ractifiara                                |
|-----------|---|----------------|--|-----------------|---|
|           | spectral signatures   |                | tourname   |                 | rectifiers . ignitrons                    |
|           | tracking (position)   | ignimbrit      | te   |                 | . igintions                               |
|           | ultrasonic flaw detection   | USE            | igneous rocks  | IGOSS           |   |
|           | Wiswesser notations   |                |  | USE             | integrated global ocean station           |
|           |   | igniters       | Devices used to begin combustion                                       |                 | systems                                   |
| identitie | es  |                | Devices used to begin combustion, a spark plug in a combustion chamber | IGY (ae         | eophysical year)                          |
| RT        | congruences   |                | engine, or a squib used to ignite the fuel                             |                 | International Geophysical Year            |
| ∞         | equations   | in a rock      |  |                 |   |
|           |   | GS             | igniters   |                 | drological decade)                        |
| IDEP (d   | ata exchange)   |                | . initiators (explosives)  | USE             | International Hydrological Decade         |
|           | interservice data exchange  |                | boosters (explosives) caps (explosives)                                | IIR filte       | rs  |
|           | program   |                | detonators   |                 | ed December 2002)                         |
|           |   |                | exploding wires  | DEF             | Digital filters that use previous output  |
| idlers    |   |                | primers (explosives)   |                 | in the calculation of current output val- |
| RT        | bearings  | БТ             | . squibs   |                 | oviding an impulse response that is theo- |
|           | gears   | RT             | ammunition electric ignition   | retically<br>UF | infinite impulse response filters         |
|           | pulleys   |                | explosive devices  | O.              | recursive filters                         |
|           | rollers   |                | ignition   | GS              | electromagnetic wave filters              |
|           | vehicular tracks  |                | ignition systems   |                 | . electric filters                        |
|           |   |                | incendiary ammunition  |                 | digital filters                           |
| IFF syst  | tems (identification)   |                | pyrophoric materials   | RT              | IIR filters<br>adaptive filters           |
| UF        | identify friend or foe  |                | solid propellant ignition spark plugs                                  | 13.1            | autoregressive moving average             |
| GS        | identifying   |                | Spark plags  |                 | FIR filters                               |
| RT        | . IFF systems (identification) aircraft detection                           | ignition       |  |                 | recursive functions                       |
| IXI       | cognition   | DEF            | The initiation of combustion. Used for                                 |                 |   |
|           | interrogation   | reignition     |  | IL-14 ai        |   |
|           | recognition   | UF             | reignition   | UF<br>GS        | Ilyushin IL-14 aircraft Ilyushin aircraft |
| 000       | systems   | GS             | ignition . electric ignition   | 00              | . IL-14 aircraft                          |
|           |   |                | . solid propellant ignition  |                 | monoplanes                                |
| IFR (rule | es)   |                | . spark ignition   |                 | IL-14 aircraft                            |
|           | instrument flight rules   | RT             | combustion   |                 | transport aircraft                        |
|           |   |                | combustion physics   | DT              | . IL-14 aircraft                          |
| IGFET     |   |                | firing (igniting)  | KI °            | o aircraft                                |
|           | field effect transistors  |                | flame propagation flammability   | IL-62 ai        | rcraft                                    |
| OOL       | noid onost translatoro  |                | flash point  | UF              | Classic aircraft                          |
|           |   |                | fuel combustion  |                 | Ilyushin IL-62 aircraft                   |
| igneous   |   |                | igniters   | GS              | commercial aircraft                       |
|           | Rocks or minerals that solidify from  |                | premixing  |                 | . IL-62 aircraft                          |
|           | or partly molten material, i.e., from The term is also applied to processes |                | propellant combustion  |                 | Ilyushin aircraft . IL-62 aircraft        |
|           | to, related to, or resulting from the                                       |                | roasting<br>sparks   |                 | jet aircraft                              |
|           | n of such rocks. Igneous rocks consti-                                      |                | spontaneous combustion   |                 | . turbofan aircraft                       |
|           | of the three main classes into which  |                | starting   |                 | IL-62 aircraft                            |
|           | e divided, the others being metamorphic                                     |                | _  |                 | monoplanes                                |
| rocks ar  | nd sedimentary rocks.  ignimbrite   | ignition       |  |                 | . IL-62 aircraft passenger aircraft       |
|           | rocks   | RT             | combustion flame retardants  |                 | . IL-62 aircraft                          |
| 00        | . igneous rocks   |                | flammability   | RT ∝            | ∘ aircraft                                |
|           | anorthosite   |                | fuel-air ratio   |                 |   |
|           | basalt  |                | gas mixtures   | IL-76 ai        |   |
|           | diorite   | ∞              | limits   |                 | ed September 1994)                        |
|           | dunite eclogite   | ianition       | cyctomo  | GS              | Ilyushin aircraft . IL-76 aircraft        |
|           | felsite   |                | systems<br>automobiles   |                 | jet aircraft                              |
|           | . gabbro  | 131            | distributors   |                 | . IL-76 aircraft                          |
|           | granite   |                | dwell  |                 | passenger aircraft                        |
|           | obsidian  |                | electric coils   |                 | . IL-76 aircraft                          |
|           | moldavite   |                | electric ignition  |                 | transport aircraft                        |
|           | peridotite pumice   |                | engines igniters   | RT ~            | . <b>IL-76 aircraft</b><br>∘ aircraft     |
|           | rhyolite  |                | internal combustion engines  | 171 %           | · anorait                                 |
|           | syenite   |                | rocket engines   | IL-86 ai        | rcraft                                    |
|           | trachyte  |                | spark plugs  | (adde           | ed September 1994)                        |
| RT        | andesite  |                | squibs   | GS              | Ilyushin aircraft                         |
|           | batholiths  |                | starters   |                 | . IL-86 aircraft                          |
|           | breccia<br>effusives  | 00             | systems  |                 | jet aircraft<br>. IL-86 aircraft          |
|           | enstatite   | ianition       | temperature  |                 | passenger aircraft                        |
|           | feldspars   |                | temperature  |                 | . IL-86 aircraft                          |
|           | ilmenite  |                | ignition temperature   |                 | transport aircraft                        |
|           | lava  | БТ             | flash point  | DT              | . IL-86 aircraft                          |
|           | magma   | RT             | combustion temperature   | KI ∝            | ∘ aircraft                                |
|           | mica<br>minerals  |                | flammability<br>propellant sensitivity                                 | IL-96 ai        | rcraft                                    |
|           | olivine   |                | pyrophoric materials   |                 | ed September 1994)                        |
|           | petrogenesis  |                | solid propellant ignition  | GS              | Ilyushin aircraft                         |
|           | pyroxenes   |                | spontaneous combustion   |                 | . IL-96 aircraft                          |
|           | quartz  |                | thermites  |                 | jet aircraft                              |
|           | regolith  | ianitro-       | e  |                 | . IL-96 aircraft                          |
|           | rock intrusions sedimentary rocks   | ignitron<br>GS | s electron tubes   |                 | passenger aircraft . IL-96 aircraft       |
|           | soils   | 30             | . gas discharge tubes  |                 | transport aircraft                        |
|           | spinel  |                | ignitrons  |                 | . IL-96 aircraft                          |

RT ∞ aircraft

# ill-conditioned problems (mathematics)

(added March 1994)

In numerical analysis, problems (algorithms) in which a small error in the data or small errors introduced by rounding, truncation, or other computational procedures result in much larger errors in the solution. (See also ILL-POSED PROBLEMS)

RT computation differential equations error analysis ill-posed problems (mathematics) integral equations numerical analysis numerical stability problem solving truncation errors

#### Illiac 3 computer

GS data processing equipment

. computers

uniqueness

. . digital computers

... Illiac computers

... Illiac 3 computer RT analog to digital converters parallel processing (computers)

# Illiac 4 computer

GS data processing equipment

. computers

. . digital computers

. . . Illiac computers

... Illiac 4 computer RT analog to digital converters

parallel processing (computers)

#### Illiac computers

GS data processing equipment

. computers

. . digital computers

... Illiac computers . . . . Illiac 3 computer

. . . . Illiac 4 computer

# Illinois

nations

. United States

. Illinois

Ohio River (US)

Wabash River Basin (IL-IN-OH)

# illite

GS clays . illite minerals . illite RT soils

# ill-posed problems (mathematics)

(added March 1994)

Problems corresponding to physical system models whose solutions do not satisfy Hadamard's criteria for 'well posedness,' i.e., existence, uniqueness, and continuous dependence on initial data. Most commonly, such problems stem fundamental physical limitations on the accessibility of information about the object or process being studied. (See also ILL-CONDITIONED PROBLEMS)

improperly-posed problems (mathematics) boundary value problems UF differential equations Fredholm equations ill-conditioned problems (mathematics) integral equations iterative solution numerical analysis numerical stability problem solving

uniqueness

#### illuminance

(LIMITED TO DETECTION RATE PER UNIT AREA OF VISIBLE RADIATION-EQUALS LIGHT PRESSURE TIMES SPEED OF LIGHT)

DEF The total luminous flux received on a unit area of a given real or imaginary surface, expressed in such units as the footcandle, lux, or phot. Illuminance is analogous to irradiance, but is to be distinguished from the latter in that illuminance refers only to light and contains the luminous efficiency weighting factor necessitated by the nonlinear wavelength response of the human eye. Used for light pressure.

light pressure pressure . radiation pressure . . luminous intensity . . illuminance rates (per time) . flux density . . radiant flux density . . . irradiance . . . . illuminance . . . luminous intensity

. . . illuminance brightness

RT illuminating illumination

light (visible radiation)

luminance luminosity radiancy solar constant solar flux density visibility

#### illuminating

lighting architecture brightness comfort darkness

environmental engineering

∞ flares alare

human factors engineering

illuminance ∞ illumination light sources light transmission

lighting equipment luminaires

**luminance** photometry ∞ projection projectors pyrotechnics shadows

# ∞ illumination

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

brightness discrimination

darkening darkness ∞ diffusers illuminance illuminating illuminators isophotes light transmission

luminescence

photometry

# illuminators

GS light sources illuminators lighting equipment illuminators RT ∞ illumination incandescence

#### illusions

GS psychological effects

luminescence

. illusions

. . hallucinations

. . moon illusion . . oculogravic illusions

. . optical illusion

. elevator illusion

RT afterimages

images

perception

#### ilmenite

DFF A mineral having the theoretical composition FeO.TiO2 used principally in the production of titanium oxide.

GS chalcogenides

. oxides

. . metal oxides . . . iron oxides

. ilmenite

. . . titanium oxides . ilmenite

iron compounds

. iron oxides

. . ilmenite

minerals

. ilmenite

titanium compounds

. titanates

. . ilmenite

. titanium oxides . ilmenite

igneous rocks

sands

ILS (landing systems)

USE instrument landing systems

#### llyushin aircraft

GS Ilyushin aircraft

. IL-14 aircraft . IL-62 aircraft . IL-76 aircraft

. IL-86 aircraft

. IL-96 aircraft RT ∞ aircraft

Ilyushin IL-14 aircraft USE IL-14 aircraft

Ilyushin IL-62 aircraft USE IL-62 aircraft

# image analysis

DEF Technique for understanding or quantification of digital data as presented in a two dimensional format.

image analysis

. image classification . spectral mixture analysis

cluster analysis

edge detection Gabor filters image enhancement

image processing image resolution

optical flow (image analysis)

pattern recognition radar imagery remote sensing satellite imagery scene analysis Voronoi diagrams

# image classification

(added July 1993)

DEF The sorting of remotely sensed image data by any one or more of a variety of means.

image analysis

. image classification

atmospheric correction change detection classifications ∞ classifying

image correlators image enhancement image processing imaging techniques

normalized difference vegetation index

optical data processing pattern recognition remote sensing remote sensors

#### image contrast

contrast

. image contrast

RT focusing gray scale pattern registration resolution self focusing signal to noise ratios smear visibility image converters

Optoelectronic devices capable of changing the spectral characteristics of a radiant image. Examples of such changes are infrared to visible and x ray to visible.

GS optical equipment

. image converters

. . celescopes

. . image tubes . . . thermicons

RT camera tubes

∞ converters

Lallemand cameras light amplifiers microchannels photocathodes

image correlators

SIMICOR (image correlator) simultaneous image correlator

correlators GS

image correlators

holography

image classification imaging techniques map matching guidance

optical correlators pattern registration

speckle holography video landmark acquisition and

tracking

image dissector tubes

GS electron tubes

. camera tubes . image dissector tubes

television equipment image dissector tubes

guidance sensors satellite orientation

image enhancement

band ratioing

focusing geometric rectification (imagery)

gray scale image analysis image classification

images

imaging techniques light amplifiers radiometric correction

resolution

signal to noise ratios

tomography vegetative index

image filters

image filters

Gabor filters ∞ filters

imaging techniques

image furnaces

heating equipment

. furnaces

. image furnaces laboratory equipment

image furnaces

arc heating carbon arcs

image intensifiers

UF intensifier tubes GS intensifiers

image intensifiers

. image orthicons

amplifiers RT imaging techniques Lallemand cameras light amplifiers

night vision orthicons phosphors photocathodes

image motion compensation

RT aerial photography ∞ compensation imaging techniques pattern registration video compression

image orthicons

electron tubes

. camera tubes . . orthicons

. image orthicons

intensifiers

. image intensifiers

. image orthicons

RT photocathodes

image processing

Conversion of optical images into digital data form for storage and reconstruction by computer techniques.

GS image processing

band ratioing

geometric rectification (imagery)

atmospheric correction change detection

cluster analysis

computer aided tomography

data processing data products

discrete cosine transform

edge detection

Feature Identification and Location

Exper

frames (data processing)

Gabor filters

Gabor transformation geometric accuracy gray scale

image analysis image classification

imagery

imaging techniques laser guide stars

multisensor applications nap-of-the-earth navigation onboard data processing optical data processing

optical flow (image analysis) point spread functions

preprocessing

principal components analysis

processing

pushbroom sensor modes

raster scanning scientific visualization

spatial resolution spectral mixture analysis

vector quantization video compression wavelet analysis

image reconstruction
DEF The reproduction of the original scene from data stored or transmitted after scanning by an electron beam. In reprography, the recreation of graphic images from digital data stored in a computer.

GS reconstruction

image reconstruction

display devices holography imaging techniques pattern registration scene generation

image resolution

In optics, a measure of the ability of an optical instrument to produce separable images of different points on an object. GS

resolution

image resolution

anisoplanatism electro-optical photography geometric accuracy

high definition television image analysis imagery matching multispectral photography

pattern registration

spatial resolution

image rotation

DĒF Mechanized or digital rotation of an image

GS gyration

. rotation

. image rotation

imaging techniques

**IMAGE** satellite

(added November 2000)

DEF A medium class Explorer (MIDEX) mission to study the global response of the Earth's magnetosphere to changes in the solar wind. IMAGE (Imager for Magnetopause-to-Aurora Global Exploration) will use neutral atom, ultraviolet, and radio imaging techniques to: (a) identify the dominant mechanisms for injecting plasma into the magnetosphere on substorm and magnetic storm time scales; (b) determine and magnetic storm time scales; (b) determine the directly driven response of the magnetosphere to solar wind changes; and, (c) discover how and where magnetospheric plasmas are energized, transported, and subsequently lost during substorms and magnetic storms.

UF Explorer 78 satellite

Imager for Magnetopause-to-Aurora

Global Explorer

GS artificial satellites

artificial satellites
. scientific satellites

. . Explorer satellites . . . IMAGE satellite

auroral zones Earth magnetosphere magnetic storms magnetopause plasmasphere

image transducers

GS transducers

image transducers

RT camera tubes imaging techniques Lallemand cameras

space plasmas

image tubes

DEF Electron tubes that reproduce on their fluorescent screens images of irradiation patterns incident on their photosensitive surfaces.

GS electron tubes

. image tubes

. thermicons optical equipment

. image converters

. . image tubes

. thermicons RT cathode ray tubes display devices flying spot scanners

head-up displays

monoscopes

image velocity sensors

images imaging techniques ∞ sensors

Imager for Magnetopause-to-Aurora Global

(added December 2000) IMAGE satellite

imagery

GS imagery

. kinoform

. microwave imagery

. photography

. . aerial photography . . all sky photography

. . astronomical photography . . autoradiography

.. black and white photography

|        | chronophotography  |          | photographs  |           | imbeddings (mathematics)                         |
|--------|--|----------|--|-----------|--|
|        | cinematography   |          | raster scanning  |           | invariant imbeddings                             |
|        | cloud photography  |          | representations  | ۰         | ∞ matrices                                       |
|        | color photography  |          | spatial filtering  |           |  |
|        | . electron photography   |          | vision   | imbedd    | lings (mathematics)                              |
|        | electro-optical photography  |          | 1101011  |           | geometry   |
|        | fractography   | imaging  | n radar  |           | . topology                                       |
|        | . frame photography  | GS       | radar  |           | imbeddings (mathematics)                         |
|        | . high speed photography   | 00       | . imaging radar  |           | invariant imbeddings                             |
|        | holography   |          |  | RT 。      | ∞ imbeddings                                     |
|        |  | DT       | Shuttle Imaging Radar  |           | strange attractors                               |
|        | acoustical holography  | RT       | radar imagery  |           | Stratige attractors                              |
|        | microwave holography   |          | remote sensors   | IMBLM     | 9  |
|        | speckle holography   |          | side-looking radar   | SN        |  |
|        | white light holography   |          | synthetic aperture radar                                     | SIN       | (INTEGRATED MEDICAL AND<br>BEHAVIORAL LABORATORY |
|        | infrared imagery   |          |  |           | MEASUREMENT SYSTEM)                              |
|        | lunar photography  | imaging  | g spectrometers  | UF        | Integ Med and Behavioral Lab                     |
|        | metric photography   | GS       | measuring instruments  |           | Measur System                                    |
|        | . microwave photography  |          | . spectrometers  | RT        | bioinstrumentation                               |
|        | multispectral photography  |          | . imaging spectrometers                                      |           | biomedical data                                  |
|        | infrared photography   | RT       | Envisat-1 satellite  |           | measuring instruments                            |
|        | color infrared photography   | 13.1     | imaging techniques   |           | medical equipment                                |
|        | radar photography  |          |  |           | medical equipment                                |
|        | orthophotography   |          | remote sensing   | IMCC (    | control center)                                  |
|        |  |          | spectral reflectance   |           |  |
|        | photomicrography   |          | spectrophotometry  | USE       | integrated mission control center                |
|        | rocket-borne photography   |          |  | 11.45 004 | to llita   |
|        | shadowgraph photography  | imaging  | g techniques   | IME sat   |  |
|        | Schlieren photography  | GS       | imaging techniques   | USE       | International Magnetospheric                     |
|        | spaceborne photography   |          | . acoustic imaging   |           | Explorer   |
|        | satellite-borne photography  |          | acoustical holography  |           |  |
|        | . spectrophotography   |          | . raster scanning  | imidazo   | oles   |
|        | stereoscopy  |          | . scene generation   |           | ed August 2004)                                  |
|        | stereophotography  |          | . speckle holography   | DEF       | Part of a group of heterocyclic com-             |
|        | streak photography   | ОТ       | 1 017  | pounds    | with a 5-membered diunsaturated ring             |
|        | ultraviolet photography  | RT       | acoustic microscopes   |           | ing 2 nitrogen atoms.                            |
|        | 1 0 1 7  |          | acoustical holography  |           | organic compounds                                |
|        | ultraviolet photometry   |          | adaptive optics  | 00        | . cyclic compounds                               |
|        | underwater photography   |          | apodization  |           |  |
|        | urography  |          | charge injection devices                                     |           | heterocyclic compounds                           |
|        | . radar imagery  |          | crop identification  |           | imidazoles                                       |
|        | . radiography  |          | flat panel displays  | instale e |  |
|        | angiography  |          | gray scale   | imides    |  |
|        | autoradiography  |          | high definition television                                   | GS        | nitrogen compounds                               |
|        | neutron radiography  |          | hologrammetry  |           | . imides   |
|        | tomography   |          | image classification   |           | bismaleimide                                     |
|        | computer aided tomography  |          |  |           | phthalimides                                     |
|        | urography  |          | image correlators  |           | succinimides                                     |
|        |  |          | image enhancement  | RT        | amides   |
|        | . reproduction (copying)   |          | image filters  |           |  |
|        | xerography   |          | image intensifiers   | imines    |  |
|        | . satellite imagery  |          | image motion compensation                                    | UF        | Schiff bases                                     |
|        | . spectroheliographs   |          | image processing   | GS        | nitrogen compounds                               |
|        | . ultraviolet imagery  |          | image reconstruction   | 00        | . imines   |
|        | . x ray imagery  |          | image rotation   | рт        |  |
|        | ultraviolet photography  |          | image transducers  | RT        | amines   |
| RT     | acousto-optics   |          | image velocity sensors                                       | 1141.00   |  |
|        | appearance   |          |  | IMLSS     |  |
|        | Atmospheric & Oceanographic Inform   |          | imaging spectrometers  | SN        | (INTEGRATED MANEUVERING AND LIFE                 |
|        | Sys  |          | magnetic force microscopy                                    | UF        | SUPPORT SYSTEM)                                  |
|        |  | ۰        | o methodology  | Oi        | Integrated Maneuvering Life Support              |
|        | change detection   |          | microwave holography   | 00        | Sys  |
|        | contour sensors  |          | modulation transfer function                                 | GS        | self maneuvering units                           |
|        | display devices  |          | multimedia   |           | . IMLSS  |
|        | Earth resources  |          | multisensor applications                                     |           | support systems                                  |
|        | geographic information systems   |          | multisensor fusion   |           | . life support systems                           |
|        | geometric rectification (imagery)  |          | multispectral band scanners                                  |           | portable life support systems                    |
|        | graphic arts   |          | multispectral photography                                    |           | IMLSS  |
|        | ground truth   |          | multispectral radar  | RT        | astronaut maneuvering equipment                  |
|        | holographic optical elements   |          | optical relay systems  |           | extravehicular activity                          |
|        | image processing   |          | optical transfer function                                    |           | extravehicular mobility units                    |
|        | image resolution   |          |  |           | ∞ systems  |
|        | microwave sounding   | ٥        | optics   | -         | - dydidinid                                      |
|        |  |          | particle image velocimetry                                   | immers    | ion  |
|        | multispectral radar  |          | pattern registration   | USE       | submerging                                       |
|        | radar signatures   |          | photography  | USL       | Submerging                                       |
|        | scene analysis   |          | pixels   |           | 1.114.   |
|        | sea truth  |          | principal components analysis                                | immisci   |  |
|        | signature analysis   |          | radar imagery  | USE       | solubility                                       |
|        |  |          | rapid ballistics identification                              |           |  |
|        |  |          | resolution cell  | immittai  |  |
| images |  |          | satellite imagery  | USE       | electrical impedance                             |
| UF     | optical images   |          | scene analysis   |           |  |
| GS     | images   |          |  | immobi    | ilization  |
|        | . afterimages  |          | spatial resolution   | GS        | immobilization                                   |
|        | . retinal images   |          | streak photography   |           | . hindlimb suspension                            |
| RT     | contour sensors  |          | synthetic apertures  | RT        | damage   |
| 131    | display devices  |          | television systems   | 17.1      | 9  |
|        |  |          | ultrasonic scanners  |           | impairment                                       |
|        | evaporography  |          | vegetative index   | ٥         | ∞ motion   |
|        | halos  |          | x ray imagery  |           |  |
|        | helmet mounted displays  |          | ,  |           | e systems  |
|        | illusions  | ∞ imbod  | lings  | GS        | anatomy  |
|        | image enhancement  | ∞ imbedo |  |           | . immune systems                                 |
|        | image velocity sensors   | SN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |           | lymphatic system                                 |
| 000    | optics   |          | LISTED BELOW)  |           | spleen   |
|        | perception   | RT       | encapsulating  |           | thymus gland                                     |
|        | The state of the s |          |  |           | . ,  |

acquired immunodeficiency syndrome IMP-8 structural design criteria antibodies USE Explorer 50 satellite impact melts antigens human immunodeficiency virus IMP-A DEF Molten material resulting from hyperimmunity velocity impact. USE **Explorer 18 satellite** immunoassay GS melts (crystal growth) immunology . impact melts impact interleukins RT celestial bodies GS impact leukocytes hypervelocity impact economic impact lunar rocks lymphocytes electron impact melting monocytes hypervelocity impact meteorites neutrophils ion impact physiological defenses minerals point impact petrology proton impact immunity deceleration RT impact prediction physiological defenses GS hydrodynamic ram effect immunity ARIP (impact prediction) impingement RT immune systems automatic rocket impact predictors mechanical shock infectious diseases predictions penetration impact prediction inoculation percussion ballistic trajectories ∞ resistance pressure downrange toxins and antitoxins shock absorbers guidance (motion) shock resistance laser guidance immunoassay shock waves missile trajectories DEF An assay that utilizes antigen-antibody stresses range safety reactions for the determination of biochemical reentry substances. Used for plasma renin activity. impact acceleration trajectory analysis plasma renin activity The acceleration generated by very GS immunoassay sudden starts or stops of a vehicle. The term is impact pressures . radioimmunoassay usually applied in the context of physiological USE impact loads antigens acceleration. Used for impact deceleration. assaying HF impact deceleration impact resistance biochemistry GS rates (per time) impact sensitivity immune systems . acceleration (physics) sensitivity GS immunology . impact acceleration . impact resistance radiobiology RT ∞ acceleration shock resistance deceleration impact resistance immunology GS medical science impact velocity crashworthiness mechanical shock propellant sensitivity . immunology physiological acceleration ∞ resistance acquired immunodeficiency syndrome railroad humping tests tolerances (physiology) allergic diseases shock absorbers anaphylaxis antibodies impact sensitivity USE impact resistance impact damage antigens GS damage antiserums impact strength . impact damage biocompatibility DEF The amount of energy required to frac-. . meteoritic damage ∞ biology ture a material. The type of specimen and the . rain impact damage human immunodeficiency virus testing conditions affect the values and therefore cratering immune systems should be specified. craters immunoassay mechanical properties GS ejecta interleukins impact strength impact tolerances lymphatic system brittle materials Mars craters prophylaxis brittleness meteoroid protection radioimmunoassay ductility planetary craters veterinary medicine earthquake resistance Tempel 1 comet hardness IMP notch sensitivity Interplanetary Monitoring Platform impact deceleration ∞ resistance GS artificial satellites USE impact acceleration shear properties . lunar satellites ∞ strength . IMP impact fusion stress concentration . scientific satellites DEF The conversion of the kinetic energy of wave resistance . . Explorer satellites a fast moving, initially stationary, macroparticle . . IMP projectile into the internal energy of fusile mateimpact testing machines lunar spacecraft rial using a particle accelerator. Impact fusion is RT drop tests . lunar satellites generally an inertial confinement fusion concept. fatigue tests . . IMP inertial confinement fusion ∞ machinery impact fusion ∞ test equipment IMP-1 fusion reactors USE Explorer 18 satellite impact tests impact loads GS impact tests IMP-2 Charpy impact test impact pressures USE Explorer 21 satellite GS loads (forces) brittleness . compression loads compression tests IMP-3 impact loads destructive tests Explorer 28 satellite USE . contact loads drop tests . impact loads fatigue tests IMP-4 hardness tests . dynamic loads USE **Explorer 34 satellite** . . transient loads impactors . impact loads load tests IMP-5 blast loads ∞ materials tests USE Explorer 41 satellite dynamic pressure notch sensitivity fiber orientation notch strength IMP-6 impact velocity notch tests Explorer 43 satellite landing loads USE shock tests loading rate strain rate IMP-7 random loads stress concentration Explorer 47 satellite USF shock loads

∞ tests

|   | toughness  |                 | mode transformers   |                 | injection  |
|---|--|-----------------|---|-----------------|--|
| impact                                  | tolerances   |                 | transfer functions<br>transmission lines                                      |                 | insertion  |
|   | tolerances (mechanics)   |                 | waveguide tuners  | implant         | ed electrodes (biology)  |
|   | impact tolerances  |                 | waveguide windows   | GS              | bioengineering   |
| RT                                      | impact damage  | :               |   |                 | . bioinstrumentation   |
| impact                                  | velocity   |                 | nce measurement electrical impedance  |                 | implanted electrodes (biology) electrodes                                  |
|   | ed April 1997)   | 111             | electrical measurement  |                 | . implanted electrodes (biology)   |
| GS                                      | velocity   |                 | mechanical impedance  | RT ∝            | ⇒ biology  |
| RT                                      | . impact velocity collisions   |                 | mismatch (electrical)   | implicat        | tion   |
| IXI                                     | hypervelocity impact   |                 | radio frequency impedance probes  |                 | inference  |
|   | impact acceleration  |                 | nce probes  |                 |  |
|   | impact loads   | GS              | measuring instruments   | implosi         |  |
|   | terminal ballistics terminal velocity  |                 | . impedance probes radio frequency impedance probes                           | DEF<br>walls of | The rapid inward collapsing of the vacuum systems or devices as the result |
|   | terminal velocity  | RT              | resonance probes  |                 | e of the walls to sustain the ambient                                      |
| impacto                                 |  |                 | ·   | pressure        |  |
| RT                                      | crushers   | impeller        |   | RT              | bursts   |
|   | grinding mills<br>hammers  | USE             | rotor blades (turbomachinery)   |                 | explosions explosive decompression   |
|   | impact tests   | impelle         |   |                 | propellant explosions  |
|   |  |                 | Devices that impart motion to a fluid;  |                 | shock waves  |
| impairn<br>RT                           | damage   |                 | ally in centrifugal compressors, rotary hich, faced on one or both sides with | impregr         | nating   |
| 111                                     | immobilization   |                 | anes, accelerate the incoming fluid out-                                      |                 | chemical attack  |
|   | injuries   |                 | o diffusers.  |                 | coatings   |
|   | losses   | GS              | •   |                 | finishes   |
| IMPATT                                  | diodes   |                 | . rotors impellers  |                 | insertion<br>lubrication   |
| USE                                     | avalanche diodes   |                 | pump impellers  |                 | permeating   |
|   |  | RT              | blowers   |                 | porosity   |
| <i>IMP-B</i><br>USE                     | Explorer 21 satellite  |                 | centrifugal compressors   |                 | preserving   |
| OOL                                     | Explorer 21 Satellite  |                 | centrifugal pumps<br>compressor rotors  |                 | self lubricating materials self lubrication                                |
| IMP-C                                   |  |                 | pumps   |                 | Sell lubilication  |
| USE                                     | Explorer 28 satellite  |                 | rotor blades (turbomachinery)   |                 | rly-posed problems (mathematics)   |
| IMP-D                                   |  |                 | stators   | USE             | ill-posed problems (mathematics)   |
| USE                                     | Explorer 33 satellite  |                 | turbine wheels<br>turbines  | Improve         | ed TIROS Operational Satellites  |
| W4D E                                   |  |                 | turbines<br>turbomachine blades   |                 | ITOS satellites  |
| <i>IMP-E</i><br>USE                     | Explorer 35 satellite  |                 | vanes   |                 |  |
| 002                                     |  | importo         | otiono  | improve<br>RT   | correction   |
| impeda                                  |  | imperfed<br>USE | defects   |                 | public relations   |
|   | The total opposition that a circuit pre-<br>the flow of an alternating current, spe- |                 |   |                 | upgrading  |
|   | the complex quotient of voltage divided  |                 | l Valley (CA)   | imnulea         | e generators   |
| by curre                                | ent. Used for dummy loads.   | GS              | valleys . Imperial Valley (CA)  |                 | Standard reference sources of broad-                                       |
| UF                                      |  | RT              | California  | band im         | pulse energy.  |
| GS                                      | impedance . acoustic impedance   |                 | deserts   | RT ∝            | generators   |
|   | . electrical impedance   |                 | Mexico  |                 | impulses<br>pulse generators   |
|   | electrical resistance  | IMP-F           |   |                 | turbines   |
|   | contact resistance   | USE             | Explorer 34 satellite   |                 |  |
|   | Hall resistance skin resistance  | IMP-G           |   | impulse<br>DEF  | The products of the forces and the   |
|   | transconductance   | USE             | Explorer 41 satellite   |                 | uring which the forces are applied.  |
|   | reactance  |                 |   | GS              | impulses   |
|   | . mechanical impedance   | IMP-H           | Fundamen 47 antollita   |                 | . high impulse   |
| RT                                      | . respiratory impedance attenuation coefficients                                     | USE             | Explorer 47 satellite   |                 | . specific impulse . total impulse   |
| • | bandwidth  | IMP-I           |   | RT              | impulse generators   |
|   | chokes (restrictions)  | USE             | Explorer 43 satellite   |                 |  |
| 0                                       | conductivity constrictions   | impinge         | omont   | impuriti<br>RT  | ies<br>contaminants  |
|   | damping  | impinge<br>DEF  | A process resulting in a continuing   | KI              | crystal defects  |
|   | diffusivity  |                 | ion of impacts between (liquid or solid)                                      |                 | dirt   |
|   | dynamic characteristics  |                 | s and a solid phase.  |                 | heterogeneity  |
|   | dynamic response   | GS              |   |                 | inclusions   |
|   | electric coils electrical properties   | RT              | . jet impingement ablation  |                 | point defects pseudopotentials   |
| 0                                       | hydraulics   | 131             | attenuation   |                 | quality  |
|   | mechanical properties  |                 | cavitation flow   |                 | trace contaminants   |
|   | physical properties  |                 | corrosion   |                 | ultrapure metals   |
| 0                                       | eresistance<br>resonant frequencies  |                 | erosion<br>gas-solid interactions   |                 | wastes   |
|   | Smith chart  |                 | impact  | IMS             |  |
|   | time constant  |                 | incidence   | USE             | International Magnetospheric   |
|   | transient response   |                 | reflection  |                 | Study  |
| impeda                                  | nce matching   |                 | scattering  | in situ ı       | measurement  |
| RT                                      | antenna couplers   | IMP-J           |   | (adde           | ed September 1992)   |
|   | couplers   | USE             | Explorer 50 satellite   |                 | In situ is Latin for 'in original place". It                               |
|   | coupling circuits directional couplers   | implant         | ation   |                 | o measurements made at the actual of the object or material measured.      |
|   | electric networks  | GS              | implantation  | RT              | atmospheric composition  |
|   | electrical impedance   |                 | . heart implantation  |                 | atmospheric sounding   |
|   | iterative networks   | C-T             | . ion implantation  |                 | balloon sounding   |
|   | matching   | RT              | grafting  |                 | ground truth   |

| ∞ measurement  | grenades  | nonsynchronization                               |
|--|---|--|
| optical measurement  | guns (ordnance)   | •  |
| pollution monitoring   | igniters  | incoherent scatter radar                         |
| remote sensing   | missiles  | DEF Radar used in the study of the iono-         |
| rocket sounding<br>temperature measurement   | projectiles<br>propellants  | sphere, thermosphere, etc. GS radar              |
| temperature measurement  | pyrotechnics  | . incoherent scatter radar                       |
| in situ resource utilization   | ∞ rockets   | EISCAT radar system (Europe)                     |
| (added August 2001)  |   | RT incoherent scattering                         |
| DEF The use of indigenous materials at a   | incentive techniques  | radar scattering                                 |
| planetary or other extraterrestrial landing site for                                     | RT cost incentives  | incoherent scattering                            |
| the production of propellants, life support con-<br>sumables, or other needed materials. | cost reduction  | DEF The phenomena of generating waves            |
| UF indigenous space materials utilization  | efficiency<br>management  | with random variations in phase, amplitude,      |
| ISMU (resource utilization)  | value engineering   | polarization, and direction of propagation when  |
| ISRU (resource utilization)  | Talias originissining   | an incident wave encounters matter.              |
| GS utilization   | incentives  | GS scattering . incoherent scattering            |
| . <b>in situ resource utilization</b> RT consumables (spacecraft)                        | GS incentives   | RT coherent scattering                           |
| extraterrestrial resources   | . contract incentives   | EISCAT radar system (Europe)                     |
| fuel production  | RT income   | electromagnetic radiation                        |
| lunar resources  | management<br>management methods  | electromagnetic wave transmission                |
| manned Mars missions   | motivation  | incoherent scatter radar                         |
| materials recovery   | personnel   | nuclear scattering<br>radar scattering           |
| oxygen production<br>planetary bases   | ·   | radar odditornig                                 |
| planotary bacco  | incidence   | income   |
| in vitro methods and tests   | DEF Partial coincidence, as a circle and a                                      | RT budgeting                                     |
| (added May 1999)   | tangent line. The impingement of a ray on a                                     | economics  |
| DEF Tests of, or methods related to, biologi-  | surface.  | incentives                                       |
| cal or biochemical processes occurring in an   | GS incidence . grazing incidence  | incompatibility                                  |
| artificial environment or outside of a living cell or organism.                          | RT angles (geometry)  | RT corrosion                                     |
| GS in vitro methods and tests  | impingement   | hazards  |
| . polymerase chain reaction  |   | ∞ interference                                   |
| RT bioassay  | incident radiation  | solubility                                       |
| biotechnology  | RT bistatic reflectivity  | incompressibility                                |
| conditions   | corpuscular radiation   | RT compressibility                               |
| culture techniques<br>cultured cells   | electromagnetic radiation obliqueness   | fluid mechanics                                  |
| cytology   | optical reflection  | incommunication become level                     |
| fertilization  | photon beams  | incompressible boundary layer GS boundary layers |
| histology  | ∞ radiation   | . incompressible boundary layer                  |
| ∞ methodology  | reflected waves   | RT laminar boundary layer                        |
| ∞ tests  | refracted waves   | turbulent boundary layer                         |
| tissue engineering   | retroreflection   |  |
| in vivo methods and tests  | scattering<br>Stokes law of radiation   | incompressible flow                              |
| (added May 1999)   | wave incidence control  | GS fluid flow . incompressible flow              |
| DEF Tests of, or methods related to, biologi-  | Wave includings control   | Stokes flow                                      |
| cal or biochemical processes occurring within a  | incineration  | RT aerodynamics                                  |
| living cell or organism.   | USE incinerators  | Beltrami flow                                    |
| RT bioassay<br>biotechnology   |   | compressible flow                                |
| conditions   | incinerators  | gas flow<br>Milne-Thomson method                 |
| culture techniques   | UF incineration   | Navier-Stokes equation                           |
| cytology   | RT burners  | Reynolds stress                                  |
| histology  | furnaces<br>waste disposal  | stream functions (fluids)                        |
| intravenous procedures   | waste disposal<br>waste energy utilization                                      | subsonic flow                                    |
| ∞ methodology<br>∞ tests   | made onergy damication  | in a survey a sile la flui de                    |
| ~ lesis  | ∞ inclination   | incompressible fluids GS incompressible fluids   |
| inactivation   | SN (USE OF A MORE SPECIFIC TERM IS  | . micropolar fluids                              |
| USE deactivation   | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)                                   | RT Boussinesq approximation                      |
| inaandaaaana   | DEF The angle between the plane of an   | channel flow                                     |
| incandescence DEF Emission of light due to high tempera-                                 | orbit and the reference plane. The equator is the                               | compressible fluids                              |
| ture of the emitting material. Any other emission  | reference plane for geocentric orbits and the                                   | fluid power<br>∞ fluids                          |
| of light is called luminescence.   | ecliptic is the reference plane for heliocentric orbits. Also the magnetic dip. | ∞ lidids<br>ideal fluids                         |
| GS emission  | RT geomagnetism   | Navier-Stokes equation                           |
| . light emission   | magnetic equator  | Oseen approximation                              |
| incandescence<br>RT brightness   | orbits  | superfluidity                                    |
| RT brightness color  | slopes  | Inconcl (trademark)                              |
| emissivity   | tendencies  | Inconel (trademark) GS alloys                    |
| illuminators   |   | . nickel alloys                                  |
| light (visible radiation)  | inclusions<br>GS defects  | Inconel (trademark)                              |
| luminescence   | GS defects<br>. inclusions  | RT chromium alloys                               |
| luminous intensity   | RT casting  | iron alloys                                      |
| luminous intensity radiance  | castings  | increasing                                       |
| spectral emission  | clathrates  | RT accumulations                                 |
| thermal emission   | heterogeneity   | augmentation                                     |
|  | impurities<br>motallography   | growth   |
| incendiary ammunition  | metallography<br>veins (petrology)  | magnification                                    |
| GS ammunition . incendiary ammunition  | voids   | promotion<br>swelling                            |
| RT bombs (ordnance)  |   | swelling   |
| combustion   | incoherence   | indene   |
| exothermic reactions   | RT discontinuity  | GS organic compounds                             |

indene GS organic compounds

. cyclic compounds . . cyclic hydrocarbons . . indené . hydrocarbons . . cyclic hydrocarbons . . . indene indentation GS indentation nanoindentation deformation hardness independent variables Any of those variables of a problem, chosen according to convenience, which may arbitrarily be specified, and which then determine the other or dependent variables of the problem. The independent variables are often called the coordinates, particularly in problems involving motion in space. Dependent and independent variables can be interchanged, e.g., height and pressure. Used for arguments (mathematics) and parameters. arguments (mathematics) parameters independent variables lattice parameters dependent variables distributed parameter systems observability (systems) parameter identification ∞ variable (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) indexes (documentation) indexes (ratios) KP index KWIC indexes indexes (documentation) DEF Ordered reference lists of contents of a file or document, together with keys or reference notations for identification or location of those contents classifications . indexes (documentation) .. KWIC indexes . Wiswesser notations abstracts bibliographies ∞ catalogs documentation documents handbooks ∞ indexes indexing (information science) information dissemination information retrieval lists literature ∞ reference systems selective dissemination of information sky surveys (astronomy) space glossaries summaries supplements thesauri indexes (ratios) . indexes (ratios) . . KP index . morphological indexes . . vegetative index ... leaf area index ... normalized difference vegetation index

GS ratios

RT efficiency ∞ indexes

mass to light ratios

# indexing (information science)

(added April 2000)

DEF The representation of document content in a systematic, organized form to support information location, retrieval, or analysis.

automatic indexing

document indexing machine aided indexing GS information analysis

indexing (information science)

RT indexes (documentation) information management information retrieval metadata

terminology terms thesauri

India GS

RT

nations India Asia Bhutan

Bangladesh Himalayas Indian spacecraft ISRO Sikkim

Indian Ocean

GS oceans

Indian Ocean Arabian Sea Indonesia Madagascar Mauritius mid-ocean ridges

Seychelles

Indian space program

GS programs

space programs

. Indian space program

RT communication satellites manned space flight ∞ research projects satellite design

space missions ∞ spacecraft

spacecraft design technology utilization

Indian Space Research Organization

ISRO USE

Indian spacecraft

UF . Arvabhata INSAT satellites IRS (Indian spacecraft) SEO (Indian spacecraft) RT India

∞ spacecraft

Indiana

GS nations

United States

. Indiana

Ohio River (US)

Wabash River Basin (IL-IN-OH)

indicating instruments

temperature indicators

measuring instruments

. indicating instruments

. . approach indicators

. . astrolabes

. . attitude indicators

. . . gyro horizons

. . cloud height indicators

. . compasses

. . . gyrocompasses

. . . magnetic compasses

. solar compasses

. . flow direction indicators

. wind vanes

. . position indicators

. . . plan position indicators

. . . radio direction finders

spacecraft position indicators

. . smoke detectors

. . speed indicators . . . tachometers

. . weight indicators

. . . microbalances

. . . strain gage balances

. . . thermobalances

RT aircraft instruments

control moment gyroscopes

detectors

dials display devices flat panel displays gas detectors head-up displays

helmet mounted displays

∞ indication ∞ indicators

instrument receivers

∞ instruments radarscopes recording instruments thermocouples

thermopiles

∞ indication

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) evaluation SN

indicating instruments probability theory signs and symptoms

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

aircraft guidance chemical indicators indicating instruments methylene blue rate of climb indicators

indigenous space materials utilization

(added August 2001)

USE in situ resource utilization

indium

GS chemical elements

. indium metals . indium

indium alloys

GS alloys

. indium alloys

aluminum alloys gallium alloys lead alloys tin alloys

indium aluminum arsenides

(added November 1994)

GS aluminum compounds . aluminum arsenides

. . indium aluminum arsenides

arsenic compounds

. arsenides

. . aluminum arsenides

... indium aluminum arsenides

. . indium arsenides

indium aluminum arsenides

indium compounds

. indium arsenides

indium aluminum arsenides

RT ∞ chemical compounds field effect transistors

high electron mobility transistors molecular beam epitaxy p-type semiconductors

indium antimonides

GS antimony compounds

. antimonides

. . indium antimonides indium compounds

indium antimonides

semiconductors (materials)

indium arsenides

GS arsenic compounds

. arsenides

.. indium arsenides

. . . indium aluminum arsenides

. indium gallium arsenides

indium compounds

indium arsenides

. . indium aluminum arsenides indium gallium arsenides

MODFETS

#### indium compounds

GS indium compounds

- . indium antimonides
- . indium arsenides
- . . indium aluminum arsenides
- . indium gallium arsenides
- . indium oxides
- . indium phosphates
- . indium phosphides
- . indium selenides
- . . copper indium selenides
- indium sulfides
- indium tellurides RT ∞ chemical compounds
- ∞ Group 3A compounds
  - ∞ metal compounds

# indium gallium arsenides

(added May 1991)

GS arsenic compounds

- . arsenides
  - . . gallium arsenides
  - ... indium gallium arsenides
  - indium arsenides
  - .. indium gallium arsenides

gallium compounds

gallium arsenides . indium gallium arsenides

indium compounds

. indium arsenides . indium gallium arsenides

intermetallics quantum well lasers semiconductors (materials)

indium isotopes GS chemical elements

- . nuclides
- . . isotopes
- . . . radioactive isotopes
- .... indium isotopes metals

. indium isotopes

# indium oxides

(added July 1995)

GS chalcogenides

- . oxides
- . . indium oxides
- indium compounds
- indium oxides

RT ∞ chemical compounds

# indium phosphates

indium compounds

indium phosphates phosphorus compounds

. phosphates

. indium phosphates

### indium phosphides

indium compounds . indium phosphides phosphorus compounds

. phosphides

indium phosphides

quantum well lasers transferred electron devices

### indium selenides

(added June 1995)

GS chalcogenides

- . selenides
- . . indium selenides
- . copper indium selenides indium compounds
- . indium selenides
- . . copper indium selenides selenium compounds
- . selenides
- . . indium selenides
- . . copper indium selenides semiconductors (materials)

solar cells

thin films

# indium sulfides

GS chalcogenides

. sulfides

. . inorganic sulfides

indium sulfides indium compounds

. indium sulfides sulfur compounds

. sulfides

. . inorganic sulfides

... indium sulfides

# indium tellurides

GS chalcogenides

. tellurides

. indium tellurides

indium compounds indium tellurides

tellurium compounds

. tellurides

. . indium tellurides

semiconductors (materials)

indium-tin-oxide semiconductors

USE ITO (semiconductors)

# indoleacetic acids

(added August 2004)

DEF Acetic acid derivatives of the heterocyclic compound indole.

GS acids

indoleacetic acids

biochemistry

plant growth regulators

### indoles

organic compounds

. cyclic compounds

. . heterocyclic compounds

indoles

. . . . tryptamines

. . . . tryptophan

. . . . melatonin . . . serotonin

indoleacetic acids

methoxy systems pyrroles

# Indonesia

GS landforms

islands

. . Indonesia

nations

Indonesia RT Indian Ocean

Indonesian space program

Pacific Ocean

# Indonesian space program

GS programs

space programs

. Indonesian space program

Indonesia

Palapa 2 satellite Palapa satellites

# indoor air pollution

DEF Pollution found in enclosed spaces often compounded by insufficient air mixing which intensifies the concentration of pollutants caused by outdoor and/or indoor sources.

pollution

. environment pollution

. . air pollution .. indoor air pollution

air quality air sampling

buildings

volatile organic compounds

# induced drag

(added July 1992)

dynamic characteristics . drag

RT

aerodynamic characteristics aerodynamic drag

aircraft design drag reduction

induced fluid flow

USE fluid flow

#### inductance

GS electrical properties

. inductance

. proximity effect (electricity) electromagnetic properties

. inductance

. proximity effect (electricity)

capacitance electrical impedance

LC circuits

magnetic induction magnetic properties

reactance RL circuits transformers

#### ∞ induction

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

arc generators derivation

induction (mathematics)

inference initiation

magnetic induction

number theory

#### induction (mathematics)

number theory GS

induction (mathematics)

RT ∞ induction

mathematical logic

induction heating DEF The generation of heat in any conducting material by means of magnetic flux-induced

currents GS

heating induction heating

furnaces magnetic induction

magnetic pumping melting

plasma heating

radio frequency heating vacuum melting

induction motors DEF Ac motors in which the primary winding on one member (usually the stator) is connected to the power source and a polyphase secondary winding or a squirrel-cage secondary winding on the other member (usually the rotor) carries

induced current. GS electromechanical devices

. electric motors

.. induction motors motors

. electric motors

. induction motors alternating current

armatures asynchronous motors

∞ electric power electric power supplies power factor controllers ∞ rotating electrical machines

synchronous motors

induction systems USE intake systems

# inductively coupled plasma mass spectrometry

(added March 2001)

DEF Multi-element analytical technique that uses high temperature plasma, commonly argon, to dissociate molecules and ionize atoms, which are passed into a vacuum, and sorted based on their atomic mass-to-charge ratios.

ICP-MS (spectrometry) LA-ICP-MS (spectrometry) UF

spectroscopy GS

. mass spectroscopy

461

.. inductively coupled plasma waste disposal . inertia principle mass spectrometry waste utilization . Mach inertia principle chemical analysis waste water RT ∞ force microanalysis Froude number qualitative analysis industries mass spectroscopic analysis GS industries moments of inertia vacuum spectroscopy . aerospace industry ∞ motion . . aircraft industry similitude law inductors . construction industry arc generators . defense industry inertia bonding ballasts (impedances) . weapons industry DEF The joining of materials with friction circuits aircraft production costs and pressure. commerce GS bonding ∞ coils electric energy storage commercial spacecraft . inertia bonding RT ∞ joining energy storage contract negotiation metal-metal bonding magnet coils contractors toroids economic development economic impact inertia moments industrial areas USE moments of inertia fishing RT cities gross national product inertia principle industrial areas commerce GS inertia construction industry industrial safety inertia principle industrial wastes . . Mach inertia principle industries manufacturing equations of motion land use personnel subsystems moments of inertia marketing retirement megalopolises shipyards inertia wheels regional planning space industrialization USE counter-rotating wheels space manufacturing shipyards reaction wheels site selection technologies urban development technology assessment inertial confinement fusion urban transportation technology utilization The process of using intense beams of tourism heavy ions to convey the energy needed to industrial energy utilities compress and heat small pellets containing RT allocations deuterium-tritium fuels to achieve ignition of the commercial energy inelastic bodies distributing USE rigid structures inertial confinement fusion domestic energy impact fusion inelastic collisions economic factors fusion propulsion DEF Collisions between two particles in which changes occur both in the internal energy ∞ energy strongly coupled plasmas energy consumption of one or both of the particles and in the sums, energy conversion inertial coordinates transportation energy before and after collisions, of their kinetic enercoordinates gies. inertial coordinates industrial management collisions GS Astroguide Navigation System business management inelastic collisions geocentric coordinates management GS RT scattering industrial management
. engineering management
. inventory management
. inventory controls inertialess steerable antennas inelastic scattering inertial forces GS scattering USE inertia inelastic scattering coherent scattering Compton effect . personnel management inertial fusion (reactor) DEF Reactors in which pellet fusion is initiated by high energy sources including lasers. RT concurrent engineering group technology (manufacturing) elastic scattering production management electron scattering RT ∞ fusion Mandelstam representation research management fusion reactors systems management nuclear scattering ion beams laser fusion total quality management quark parton model laser plasmas industrial plants inelastic stress nuclear fuels DEF A force acting on a solid and producing UF factories plasma compression plants (industries) a deformation such that the original shape and pulsed lasers GS industrial plants size of the solid are not restored after the force relativistic electron beams . foundries is removed. construction industry RT cyclic loads inertial guidance ∞ facilities mathematical models DEF Guidance by means of the measurepilot plants metal fatigue ment and integration of acceleration from within stress analysis the craft industrial safety stress-strain diagrams guidance (motion)
. inertial guidance GS safety GS industrial safety inequalities . strapdown inertial guidance accidents inequalities injection guidance benzene poisoning Schwartz inequality midcourse guidance beryllium poisoning RT ∞ mathematics reentry guidance carbon tetrachloride poisoning satellite guidance health physics inert atmosphere spacecraft guidance hydrocarbon poisoning A gaseous medium that because of its stabilized platforms lack of chemical reaction is used to enclose tests industries

or equipment.

inert gases USE rare gases

GS

inertia

DEF

UF

GS

inertial forces.

controlled atmospheres

Resistance to acceleration. Used for

inert atmosphere

inertial forces

inertia

terminal guidance

tions since leaving a starting point.

. inertial navigation

navigation

DEF Dead reckoning performed automatically by a device which gives a continuous

indication of position by integration of accelera-

. . Astroguide Navigation System

inertial measuring units

inertial navigation

USE inertial platforms

#### 462

occupation

industrial wastes

wastes

landfills

liquid wastes

soil pollution

solid wastes

GS

reactor safety

industrial wastes heavy metals industries

|           | gimballess inertial navigation                  |           | dermatitis                            |          | inflatable gliders                       |
|-----------|---|-----------|---------------------------------------|----------|--|
| RT        | acceleration measurement                        |           | contact dermatitis                    |          | gliders                                  |
|           | air navigation                                  |           | fungal diseases                       |          | . paragliders                            |
|           | all-weather air navigation                      |           | hepatitis                             |          | . inflatable gliders                     |
|           | celestial navigation                            |           | meningitis                            | RT «     | ∞ aircraft                               |
|           | dead reckoning digital navigation               |           | parasitic diseases viral diseases     | inflatah | ole space structures                     |
|           | hyperbolic navigation                           |           | acquired immunodeficiency             |          | led August 1996)                         |
|           | navigation aids                                 |           | syndrome                              |          | inflatable space structures              |
|           | polar navigation                                |           | influenza                             |          | inflatable spacecraft                    |
|           | radar navigation                                |           | poliomyelitis                         |          | Beacon satellites                        |
|           | radio navigation                                | 5.7       | smallpox                              |          | Beacon Explorer A                        |
|           | Schuler tuning                                  | RT        | antiseptics                           | RT       | Explorer 22 satellite antennas           |
|           | space navigation<br>star trackers               |           | Aspergillus<br>biological weapons     | KI       | folding structures                       |
|           | strapdown inertial guidance                     | c         | ∘ blisters                            |          | space erectable structures               |
|           | surface navigation                              |           | epidemiology                          |          | opaco crostabro ciractares               |
|           |   |           | immunity                              | inflatab | ole spacecraft                           |
|           | platforms                                       |           | leukopenia                            | GS       | expandable structures                    |
| UF        | inertial measuring units                        |           |                                       |          | . inflatable structures                  |
| RT        | gimballess inertial navigation                  | inferen   |                                       |          | inflatable spacecraft                    |
|           | gyroscopic stability                            | RT        | assumptions                           |          | Beacon satellites<br>Beacon Explorer A   |
|           | Kalman-Schmidt filtering navigation instruments |           | deduction<br>hypotheses               |          | Explorer 22 satellite                    |
| 00        | platforms                                       |           | implication                           |          | inflatable space structures              |
|           | three axis stabilization                        | c         | o induction                           |          | . inflatable spacecraft                  |
|           |   |           |                                       |          | Beacon satellites                        |
| inertial  | reference systems                               | infestat  | ion                                   |          | Beacon Explorer A                        |
|           | celestial reference systems                     | UF        | insect damage                         |          | Explorer 22 satellite                    |
| ~         | reference systems                               | RT        | beetles                               |          | space erectable structures               |
|           | relativity                                      |           | boll weevils                          |          | inflatable spacecraft                    |
| 00        | systems   |           | bollworms                             |          | Beacon satellites                        |
| Inertial  | Upper Stage                                     |           | chironomus flies<br>flatworms         |          | Beacon Explorer A Explorer 22 satellite  |
|           | A solid propulsive upper stage de-              |           | insects                               | RT       | artificial satellites                    |
|           | o place spacecraft on high Earth orbits         |           | larvae                                | 131      | orbital assembly                         |
|           | cape trajectories for planetary missions.       |           | locusts                               |          | self erecting devices                    |
| UF        | interim upper stage (STS)                       |           | moths                                 | c        | ∞ spacecraft                             |
|           | IUS   |           | parasites                             |          | unmanned spacecraft                      |
| GS        | interim stages (spacecraft)                     |           | plants (botany)                       |          |  |
| БТ        | Inertial Upper Stage                            |           | silkworms                             |          | ole structures                           |
| RT        | orbit transfer vehicles                         |           | worms                                 | UF       | deflating                                |
|           | recoverable spacecraft reusable spacecraft      | infiltrat | ion                                   | GS       | inflatable devices expandable structures |
|           | Space Shuttle orbiters                          | GS        | infiltration                          | 65       | . inflatable structures                  |
|           | space shuttles                                  | 00        | . chemical vapor infiltration         |          | . air bag restraint devices              |
|           | space transportation                            | RT        | air conditioning                      |          | balloons                                 |
|           | space transportation system                     |           | permeability                          |          | high altitude balloons                   |
|           | space tugs                                      |           | porosity                              |          | jimsphere balloons                       |
|           | Ulysses mission                                 |           | resin film infusion                   |          | skyhook balloons                         |
|           | upper stage rocket engines                      |           | voids                                 |          | superpressure balloons                   |
|           |   |           | warfare                               |          | meteorological balloons                  |
| GS        | ess steerable antennas<br>antennas              | infinito  | impulse response filters              |          | jimsphere balloons ROBIN balloons        |
| 03        | . directional antennas                          |           | ed December 2002)                     |          | microballoons                            |
|           | steerable antennas                              |           | IIR filters                           |          | tethered balloons                        |
|           | inertialess steerable antennas                  |           |                                       |          | ballutes                                 |
|           | arrays  | infinite  | span wings                            |          | gas bags                                 |
|           | . antenna arrays                                | GS        | airfoils                              |          | inflatable gliders                       |
|           | steerable antennas                              |           | . thin airfoils                       |          | inflatable spacecraft                    |
|           | inertialess steerable antennas                  |           | thin wings                            |          | Beacon satellites                        |
| RT        | communication equipment                         |           | infinite span wings                   |          | Beacon Explorer A                        |
|           | inertial coordinates                            |           | . wings slender wings                 | RT       | Explorer 22 satellite airships           |
| infarctio | on  |           | infinite span wings                   | KI       | boats                                    |
| GS        | diseases  |           | thin wings                            |          | buildings                                |
|           | . heart diseases                                |           | infinite span wings                   |          | flexible bodies                          |
|           | infarction                                      |           | unswept wings                         |          | flexible wings                           |
|           | myocardial infarction                           |           | infinite span wings                   |          | floats                                   |
| RT        | embolisms                                       |           | planforms                             |          | folding structures                       |
|           | thrombosis                                      |           | . wing planforms                      |          | inflating                                |
|           | tissues (biology)                               | RT        | . infinite span wings flexible wings  |          | life rafts                               |
| infection | ns.   | KI        | liexible willigs                      |          | lunar shelters pneumatic equipment       |
| USE       | infectious diseases                             | infinity  |                                       |          | pressure suits                           |
|           |   | DEF       | A point, line, or region, beyond mea- |          | radomes                                  |
| infectio  | us diseases                                     | surable   | limits.                               |          | self erecting devices                    |
| UF        | infections                                      | RT        | ,                                     |          | space erectable structures               |
| GS        | diseases  |           | geometry                              |          | space stations                           |
|           | infectious diseases                             |           | number theory                         | c        | ∞ structures                             |
|           | . airborne infection                            |           | probability theory                    |          | tires                                    |
|           | cholera   |           | real variables series (mathematics)   |          | variable geometry structures             |
|           | diphtheria                                      |           | senes (mainematics)                   | inflatin | a  |
|           | keratitis                                       | inflatah  | le devices                            | SN       | (EXCLUDES ECONOMIC INFLATION)            |
|           | syphilis  |           | inflatable structures                 | RT       | expansion                                |
|           | tuberculosis                                    |           |                                       |          | gas injection                            |
|           | typhoid   |           | le gliders                            |          | growth                                   |
|           | typhus  | GS        | expandable structures                 |          | inflatable structures                    |
|           | conjunctivitis                                  |           | . inflatable structures               |          | pressure reduction                       |

pressurizing video tapes psychophysiology . swelling information adaptive system information resources management DEF The spaceborne portion of the NASA inflection points (added September 1995) End-to-End Data System. A comprehensive strategy for manag-GS geometry Euclidean geometry
. . points (mathematics) information systems ing an organization's information resources throughout the information life cycle, including . information adaptive system communication equipment . . inflection points creation, collection, use, processing, and dis-∞ systems semination. UF IRM curves (geometry) functions (mathematics) information analysis GS management line shape (added April 2000)
GS information analysis real variables . information management ... information resources data mining management in-flight monitoring indexing (information science) crew procedures (inflight) crew procedures (preflight) . resources management scientific visualization .. information resources . numerical flow visualization management flight control flight tests computer information security trend analysis information resources management data management monitors information retrieval data processing telemetry natural language processing documentation information analysis inflight simulation information dissemination information transfer (added November 1998) Internet resources communicating USE in-flight simulation . information dissemination libraries . . messages records management in-flight simulation . . selective dissemination of websites (added October 1998) information DEF The use of a specialized test aircraft to bibliographies information retrieval simulate the flight characteristics of another catalogs (publications) documentation retrieval vehicle. The test aircraft is typically capable of . information retrieval duplicating the computed responses of the electronic publishing abstracts simulated vehicle through special aerodynamic extraterrestrial communication bibliographies and control system features. indexes (documentation) CD-ROM inflight simulation information transfer command languages GS simulation integrated library systems Internet resources libraries computers . flight simulation data processing in-flight simulation data retrieval aircraft control privacy documentation flight characteristics reports documents flight control summaries hypertext flight simulators websites indexes (documentation) flight tests indexing (information science) training simulators information flow information analysis aerospace technology transfer information transfer in-flight starting integrated library systems interservice data exchange program communicating USE air start communication flow libraries influence coefficient information transfer management information systems GS coefficients management metadata numerical data bases . influence coefficient message processing . structural influence coefficients selective dissemination of information on-line systems query languages aeroelasticity technology transfer discharge coefficient search profiles elastic properties selective dissemination of information information management flutter management space glossaries force distribution . information management Starsite program ∞ hydraulics ... information resources management subjects moment distribution . records management thesauri nozzle thrust coefficients communicating plastic properties communication information systems pressure distribution data base management systems information systems stress analysis data retrieval . Atmospheric & Oceanographic structural analysis data storage Inform Sys indexing (information science) Earth Resources Information System influenza information transfer . EOS data and information system GS diseases integrated library systems geographic information systems . infectious diseases technology transfer information adaptive system . . viral diseases . integrated library systems . . . influenza Information Power Grid . knowledge based systems . respiratory diseases (added December 2003)
JSE grid computing (computer . expert systems . . influenza . cockpit weather information systems networks) . decision support systems information . management information systems Any facts or data which can be used, information processing (biology) pilot support systems transferred, or communicated. DEF An approach to the study of percep-CD-ROM information tion, memory, language and/or thought that con-Earth Observing System (EOS) . metadata siders organisms to be complex systems that grid computing (computer networks) receive, transform, store and transmit informainformation transfer annotations audio tapes Internet resources communicating artificial intelligence libraries bioelectricity communication management systems multimedia ∞ data brain documentation cognition networks mathematical tables cognitive psychology on-line systems electrophysiology human performance records management news media

neurophysiology

perception

selective dissemination of information

∞ svstems

systems management

presentation

privacy

reports

| websites          | 5                                      |          | infrared sources (astronomy)                                |          | . photography   |
|-------------------|--|----------|---|----------|---|
| information the   | ory                                    |          | Infrared Space Observatory (ISO) James Webb Space Telescope | RT       | infrared imagery color infrared photography   |
|                   | n information theory                   |          | Kuiper Airborne Observatory                                 |          | lunar equator   |
|                   | ions of mathematics                    |          | Large Deployable Reflector                                  |          | thermography  |
| automat           | a theory                               |          | SOFIA (airborne observatory)                                |          | x ray imagery   |
| ∞ automat         |  |          | Space Infrared Telescope Facility                           |          |   |
| BCH co            | des                                    | Infrared | Astronomy Satellite   |          | inspection  |
| coding            | atorial analysis                       |          | A joint NASA-Netherlands-Great Brit-                        | GS       | inspection  |
|                   | nication theory                        |          | ecraft designed to perform astronomical                     | RT       | . infrared inspection nondestructive tests  |
| compute           | •                                      |          | ions in the infrared spectral region. It                    | IXI      | quality control   |
| correction        |  |          | nched on January 25, 1983. Used for                         |          | quanty control  |
| correlati         | on                                     | IRAS.    |   | infrared | instruments   |
| cryptogr          | aphy                                   |          | IRAS  | GS       | measuring instruments   |
| cyberne           |  | GS       | artificial satellites                                       |          | . radiation measuring instruments   |
| data pro          |  |          | . scientific satellites                                     |          | infrared instruments  |
|                   | nsmission                              |          | astronomical satellites<br>Infrared Astronomy Satellite     |          | infrared detectors  |
| decision          |  |          | observatories   |          | FLIR detectors infrared radiometers   |
| ergodic           | tection codes                          |          | . astronomical observatories                                |          | Advanced Very High  |
|                   | nformation                             |          | astronomical satellites                                     |          | Resolution Radiometer   |
| Fourier           |  |          | Infrared Astronomy Satellite                                |          | infrared scanners   |
| game th           |  | RT       | geosynchronous orbits                                       |          | visible infrared spin scan  |
| ∞ logic           | •                                      |          | infrared astronomy  |          | radiometer  |
|                   | e translation                          |          | infrared sources (astronomy)                                |          | quantum well infrared   |
| •                 | ment information systems               |          | IRAS-Araki-Alcock comet                                     |          | photodetectors  |
| ∞ mathem          |  |          | Netherlands space program<br>UK satellites                  |          | infrared interferometers  |
|                   | m entropy method                       |          | OK Satemies   |          | infrared spectrometers  |
| messag<br>∞ noise | es                                     |          | cirrus (astronomy)  |          | filter wheel infrared   |
|                   | ns research                            |          | d September 1989)   |          | spectrometers infrared spectrophotometers   |
| parity            | ilis research                          | RT ∞     | clouds  | RT       | Advanced Very High Resolution   |
| Petri ne          | ts                                     |          | cosmic dust   |          | Radiometer  |
| phase s           | hift keying                            |          | galactic radiation infrared astronomy                       |          | forest fire detection   |
| probabil          | ity theory                             |          | infrared radiation  |          |   |
| random            | processes                              |          | infrared sources (astronomy)                                |          | interferometers   |
| redunda           |  |          | interstellar matter   | GS       | measuring instruments   |
|                   | n-Wiener measure                       |          | molecular clouds  |          | . interferometers   |
|                   | al analysis                            | :mfrarad | datastava   |          | <ul> <li>infrared interferometers</li> <li>radiation measuring instruments</li> </ul> |
| ∞ statistics      | tic processes                          | UF       | detectors<br>signal-processing-in-the-element               |          | infrared instruments  |
|                   | s engineering                          | Oi       | detectors   |          | infrared interferometers  |
|                   | munication                             |          | SPRITE detectors  | RT       | astronomical interferometry   |
| terms             |  | GS       | measuring instruments                                       |          | interferometry  |
| ∞ theories        |  |          | . radiation measuring instruments                           |          | optical equipment   |
|                   |  |          | actinometers  |          | optical measurement   |
| information tran  |  |          | radiometers   |          | optical measuring instruments   |
|                   | nt markup languages                    |          | infrared detectors  |          | speckle interferometry  |
|                   | ion dissemination                      |          | FLIR detectors  | infrared | Lacoro  |
| informat          | ion now<br>ion management              |          | infrared radiometers  |          | infrared masers   |
|                   | ion resources management               |          | Advanced Very High Resolution Radiometer                    | Oi       | IR lasers   |
|                   | ion retrieval                          |          | infrared scanners   |          | irasers   |
|                   | ion systems                            |          | visible infrared spin scan                                  | GS       | stimulated emission devices   |
|                   | onal cooperation                       |          | radiometer  |          | . lasers  |
| interope          | rability                               |          | quantum well infrared                                       |          | infrared lasers   |
|                   | ogy transfer                           |          | photodetectors  | RT       | argon lasers  |
|                   | ogy utilization                        |          | infrared instruments  |          | carbon dioxide lasers   |
| World W           | /ide Web                               |          | infrared detectors  |          | carbon lasers   |
| information trans | mission                                |          | FLIR detectors  |          | carbon monoxide lasers chemical lasers  |
|                   | Insmission                             |          | infrared radiometers Advanced Very High                     |          | dye lasers  |
| OOL data tro      |  |          | Resolution Radiometer                                       |          | gas lasers  |
| infrared absorpt  | tion                                   |          | infrared scanners   |          | HF lasers   |
|                   | ing up of energy from infrared         |          | visible infrared spin scan                                  |          | liquid lasers   |
|                   | edium through which the radia-         |          | radiometer  |          | organic lasers  |
| tion is passing.  |  |          | quantum well infrared                                       |          | quantum cascade lasers  |
|                   | absorption                             |          | photodetectors  |          | solid state lasers  |
|                   | on absorption<br>romagnetic absorption |          | bolometers  |          | waveguide lasers  |
|                   | ared absorption                        | ∞        | detectors   |          | YLF lasers  |
| RT ∞ absorpti     |  |          | electromagnetic measurement focal plane devices             | infrared | masers  |
|                   | neric attenuation                      |          | forest fire detection                                       |          | infrared lasers   |
|                   | neric optics                           |          | infrared signatures   |          |   |
| infrared          | radiation                              |          | mercury cadmium tellurides                                  |          | photography   |
| light sca         |  |          | x ray detectors   | GS       | imagery   |
|                   | properties                             | infrared | filters   |          | . photography   |
|                   | emission                               |          | electromagnetic wave filters                                |          | multispectral photography   |
| transmit          |  | GS       | optical filters   |          | infrared photography  |
| wave at           | tenuation                              |          | infrared filters  | RT       | color infrared photography aerial photography   |
| infrared astrono  | omv                                    | RT       | electric filters  | IXI      | astronomical photography  |
| GS astronor       |  |          | ultraviolet filters   |          | black and white photography   |
|                   | ed astronomy                           | info     | harizan asannar-  |          | cinematography  |
|                   | mical photography                      |          | horizon scanners  |          | faint object camera   |
| blazars           |  | USE      | horizon scanners infrared scanners                          |          | forest fire detection   |
|                   | Astronomy Satellite                    |          |   |          | geographic information systems  |
|                   | cirrus (astronomy)                     |          | imagery   |          | ice mapping   |
| ıntrared          | photometry                             | GS       | imagery   |          | lunar photography   |

infrared imagery GS imagery

### infrared photometry

meteorological satellites METEOSAT satellite multispectral band cameras Nimbus satellites radiometers satellite-borne photography timber inventory ultraviolet photography

#### infrared photometry

Photometry in the infrared region.

GS optical measurement

. photometry

# infrared photometry

astronomical photometry infrared astronomy infrared spectra near infrared radiation stellar spectrophotometry

#### infrared radar

Radar covering a range from the limit of the visible spectrum to the shortest micro-

GS radar

#### infrared radar

CALIPSO (Pathfinder satellite) FLIR detectors optical radar radar imagery

#### infrared radiation

DEF Electromagnetic radiation lying in the wavelength interval from 75 microns to an indefinite upper boundary sometimes arbitrarily set at 1000 microns (0. 01 centimeter).

electromagnetic radiation

#### . infrared radiation

- . . far infrared radiation
- . near infrared radiation

RT beams (radiation) black body radiation

coherent electromagnetic radiation

energy absorption evaporography

exhaust emission

heat

infrared absorption

infrared cirrus (astronomy)

infrared signatures

infrared sources (astronomy)

light (visible radiation)

microwaves

monochromatic radiation

planetary radiation

polarized electromagnetic radiation

radiation

Seyfert galaxies

solar radiation sunlight

terrestrial radiation

thermal radiation

wavelengths

xenon lamps

### infrared radiometers

GS measuring instruments

- . radiation measuring instruments
- . . actinometers
- . . . radiometers

. . . . infrared detectors

. . . . infrared radiometers

. . . . . Advanced Very High Resolution Radiometer

.... infrared scanners

. . . . . visible infrared spin scan

radiometer

. . infrared instruments ... infrared detectors

. . . . infrared radiometers

. . . . Advanced Very High

Resolution Radiometer

. . . . infrared scanners

.... visible infrared spin scan radiometer

RT aerial reconnaissance atmospheric correction

data acquisition

Earth Resources Program environmental monitoring

forest fire detection pressure modulator radiometers radiometric correction satellite-borne instruments thermal mapping

#### infrared reflection

reflection GS

#### infrared reflection

optical reflection radiative heat transfer radio echoes spread reflection

#### infrared scanners

infrared horizon scanners GS measuring instruments

ultraviolet reflection

. radiation measuring instruments

. . actinometers

. . . radiometers

. . . . infrared detectors

. . . . infrared radiometers

. . infrared scanners

. . infrared instruments

. . . infrared detectors

. . . infrared radiometers

.... infrared scanners

scanners

# infrared scanners

RT forest fire detection horizon scanners multispectral band scanners optical equipment Scanner project

thermal mapping

# infrared signatures

DEF The infrared spectral characteristics of an object or uniform land surface which uniquely defines it.

GS signatures

# infrared signatures

RT infrared detectors infrared radiation infrared spectra signature analysis

# infrared sources (astronomy)

Celestial bodies or astronomical regions emitting a large amount of radiation in the infrared portion of the electromagnetic spec-

GS celestial bodies

#### . infrared sources (astronomy)

. . infrared stars

astronomy

Herbig-Haro objects

infrared astronomy

Infrared Astronomy Satellite

infrared cirrus (astronomy)

infrared radiation

# Infrared Space Observatory (ISO)

An astronomical satellite observatory funded by ESA operating at wavelengths from 3 to 200 microns. The observatory is comprised of a 60 cm Cassegrain telescope, a CCD infrared camera, two Michelson interferometers, and a photopolarimeter.

GS artificial satellites

. ESA satellites

. . Infrared Space Observatory (ISO)

. scientific satellites

. . astronomical satellites

... Infrared Space Observatory (ISO)

ESA spacecraft . ESA satellites

.. Infrared Space Observatory (ISO)

observatories . astronomical observatories

. . astronomical satellites . . . Infrared Space Observatory

(ISO)

telescopes

. spaceborne telescopes

#### ... Infrared Space Observatory (ISO)

European space programs infrared astronomy spaceborne astronomy

# infrared spectra

- GS spectra radiation spectra
  - . . electromagnetic spectra . . . infrared spectra

RT ∞ absorption emission spectra infrared photometry infrared signatures

line spectra microwave spectra molecular spectra solar spectra

stellar spectra

#### infrared spectrometers

- GS measuring instruments optical measuring instruments
  - ... infrared spectrometers
  - . . filter wheel infrared spectrometers
  - . radiation measuring instruments
  - . . actinometers

#### ... infrared spectrometers

.... filter wheel infrared spectrometers

... infrared instruments

... infrared spectrometers

. . . . filter wheel infrared spectrometers

. spectrometers infrared spectrometers

. filter wheel infrared spectrometers optical equipment

. optical measuring instruments

.. infrared spectrometers

. filter wheel infrared spectrometers

Ebert spectrometers solar spectrometers

# infrared spectrophotometers

GS measuring instruments

. optical measuring instruments

. . spectrophotometers

... infrared spectrophotometers . radiation measuring instruments

. . actinometers

... spectrophotometers infrared spectrophotometers

. . infrared instruments

. infrared spectrophotometers optical equipment

. optical measuring instruments

. . spectrophotometers infrared spectrophotometers

chemical analysis filter wheel infrared spectrometers photometers

# infrared spectroscopy

spectroscopy

. infrared spectroscopy absorption spectroscopy astronomical spectroscopy chemical analysis electron spectroscopy laser spectrometers molecular spectroscopy molecular structure optogalvanic spectroscopy Raman spectroscopy spectrometers spectroscopic analysis

#### infrared stars

GS celestial bodies

. infrared sources (astronomy)

... infrared stars

sulfur hexafluoride

vacuum spectroscopy

. stars

.. infrared stars

| RT Herbig-Haro objects  | solidification   | nuclear reactions                                    |
|---|--|--|
|   | ingredients  | nuclear reactors                                     |
| infrared suppression  | RT admixtures  | reactivity reactor physics                           |
| DEF The shielding and/or protection of air-<br>craft engines and exhausts from heat-seeking | ∞ components   | reactor physics                                      |
| missiles and/or detecting devices.  | ∞ composition  | initial value problems                               |
| RT afterburning   | content  | USE boundary value problems                          |
| aircraft detection  | formulations   | initialisms  |
| aircraft engines  | mixtures   | USE <b>abbreviations</b>                             |
| cooling systems   | ingress (spacecraft passageway)  | COL approviations                                    |
| exhaust gases   | RT air locks   | initiation   |
| exhaust nozzles<br>heat shielding   | doors  | RT activation  |
| jet engines   | egress   | actuation  |
| jet exhaust   | hatches  | detonation<br>∞ generation                           |
| reaction products   | openings   | ∞ generation ∞ induction                             |
| suppressors   | inhabitants  | inoculation  |
| temperature control   | GS communities   | nucleation   |
| C. Comp. Landau and C. Comp.  | . inhabitants  | ∞ priming  |
| infrared telescopes  DEF Special optical instruments for astro-                             | mountain inhabitants   | reactor startup tests                                |
| DEF Special optical instruments for astro-<br>nomical observations in the range from one    | RT aborigines<br>cities  | starting<br>stimulation                              |
| micron to one millimeter.   | demography   | Sumulation   |
| GS telescopes   | personnel  | ∞ initiators   |
| infrared telescopes   | residential areas  | SN (USE OF A MORE SPECIFIC TERM IS                   |
| Large Deployable Reflector  |  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)           |
| . Space Infrared Telescope Facility   | inhalation   | RT catalysts   |
| RT astronomy  | USE respiration  | initiators (explosives)                              |
| Astroplane<br>James Webb Space Telescope  | ∞ inhibition   | styphnates   |
| Next Generation Space Telescope   | SN (USE OF A MORE SPECIFIC TERM IS   | initiatana (auminairea)                              |
| project   | RECOMMENDEDCONSULT THE TERMS   | initiators (explosives)  UF electroexplosive devices |
| . ,   | LISTED BELOW) RT attenuation   | GS explosive devices                                 |
| infrared tracking   | corrosion prevention   | . initiators (explosives)                            |
| GS tracking (position)  | detachment   | boosters (explosives)                                |
| infrared tracking   | disabilities   | caps (explosives)                                    |
| RT antimissile missiles   | dithers  | detonators   |
| compensatory tracking   | frustration  | exploding wires                                      |
| homing devices<br>missile tracking  | inhibition (psychology)<br>inhibitors  | primers (explosives) igniters                        |
| optical tracking  | introversion   | . initiators (explosives)                            |
| pursuit tracking  | lethargy   | boosters (explosives)                                |
| radiometers   | passivity  | caps (explosives)                                    |
|   | prevention   | detonators   |
| infrared windows  | ∞ reduction  | exploding wires                                      |
| DEF A frequency region in the infrared  | stopping   | primers (explosives)                                 |
| where there is good transmission of electromag-   | inhibition (navohalagy)  | RT fuses (ordnance)<br>∞ initiators                  |
| netic radiation through the atmosphere.   | inhibition (psychology) RT conditioning (learning)                                       | ∞ initiators  pyrotechnics                           |
| RT apertures<br>lasers  | ∞ inhibition   | styphnates   |
| optical materials   |  |  |
| ∞ windows   | inhibitors   | injection  |
|   | DEF Things that inhibit; specifically, sub-  | GS injection   |
| infrasonic frequencies  | stances bonded, taped, or dip dried onto a solid   | . carrier injection                                  |
| DEF Frequencies below the audiofrequency  | propellant to restrict the burning surface and to give direction to the burning process. | . fluid injection<br>gas injection                   |
| range.  | GS inhibitors  | liquid injection                                     |
| GS frequencies  | . enzyme inhibitors  | deep well injection (wastes)                         |
| . <b>infrasonic frequencies</b><br>RT acoustics   | . wear inhibitors  | water injection                                      |
| N1 acoustics  | RT additives   | . fuel injection                                     |
| ∞ ingestion   | antidotes  | ion injection  |
| SN ((USE OF A MORE SPECIFIC TERM IS   | antifouling  | . secondary injection . transearth injection         |
| RECOMMENDEDCONSULT THE TERMS  | antiicing additives<br>antioxidants  | . translunar injection                               |
| LISTED BELOW.) RT ingestion (biology)   | case bonded propellants  | RT Barritt diodes                                    |
| ingestion (engines)   | catalysts  | blowing  |
| S ( S )   | coatings   | boundary layer separation                            |
| ingestion (biology)   | corrosion prevention   | ∞ charging   |
| GS ingestion (biology)  | ∞ inhibition   | feeding (supplying)                                  |
| . drinking  | neutralizers<br>packaging  | filling<br>fluid flow                                |
| . eating  | passivity  | implantation   |
| . grazing   | propellant additives   | injectors  |
| RT ∞ ingestion<br>swallowing  | propellant decomposition   | input  |
| swanowny  | propellant storability   | perforating  |
| ingestion (engines)   | retardants   | supplying  |
| RT bird-aircraft collisions   | silencers  | injustice and the territory                          |
| engine failure  | solid propellant ignition  | injection carburetors                                |
| ∞ ingestion   | solid propellants<br>suppressors   | USE carburetors<br>fuel injection                    |
| •   | anhhicaania  | raci injection                                       |
| ingots  | inhomogeneity  | injection guidance                                   |
| DEF Cast metals in forms intended for sub-  | UF nonhomogeneity  | GS guidance (motion)                                 |
| sequent fabrication.  | RT defects   | injection guidance                                   |
| GS castings   | heterogeneity  | RT ascent trajectories                               |
| . <b>ingots</b><br>RT billets   | nonuniformity  | celestial navigation                                 |
| RT billets casting  | inhour equation  | command guidance<br>inertial guidance                |
| molds   | RT ∞ equations   | midcourse guidance                                   |
|   |  |  |

rendezvous guidance . . Injun 1 satellite annular nozzles satellite guidance . . Injun 3 satellite bypass ratio spacecraft guidance . . Injun 4 satellite conical nozzles transearth injection ∞ diffusers translunar injection injuries engine inlets GS injuries exhaust nozzles injection lasers back injuries inlet airframe configurations DEF Lasers that use a forward biased semibarotrauma intake systems conductor junction as the active lasing medium. brain damage internal compression inlets stimulated emission devices burns (injuries) ∞ nozzles crash injuries openings .. injection lasers ejection injuries pipe nozzles . . quantum cascade lasers frostbite aluminum gallium arsenide lasers . lesions inlet pressure gallium arsenide lasers . . pulmonary lesions DEF In connection with performance data on pumps, when not otherwise specified, the gallium arsenides noise injuries injection locking . parachuting injury total static pressure measured in a standard semiconductor lasers paralysis testing chamber by a vacuum gage located near . radiation injuries the inlet port. injection locking pressure spinal cord injuries GS whiplash injuries carrier injection inlet pressure accidents injection lasers pressure gradients laser mode locking ∞ blisters pressure recovery chemical defense stagnation pressure injection molding water pressure damage DEF A forming process in which a heat death softened or plasticized material is forced from a diagnosis inlet temperature foreign bodies hazards cylinder into a relatively cool cavity which gives A location for measuring the temperature of fluids, particles, etc., entering a heat system, an engine, or other machine. the product a desired shape. A similar process is used for forming solid propellants from quick hemorrhages temperature cure ingredients. impairment forming techniques
. injection molding . inlet temperature GS necrosis air intakes sabotage ceramics veterinary medicine engine inlets dies fuel systems gas temperature wound healing extruding melting inks intake systems molding materials drawings molds graphic arts inlets (devices) USE intake systems plastics pigments resin transfer molding printing inlets (topography)
DEF Small narrow openings, recesses, ininland waters dentations, or other entrances into coastlines or shores of lakes or rivers, through which water DEF Devices that propel fuel or propellant into a combustion chamber under pressure GS water inland waters penetrates into land. other than atmospheric. ground water GS injectors Great Lakes (North America) GS landforms . vortex injectors blowers . inlets (topography) Great Salt Lake (UT) lakes . . bayous . Cook Inlet (AK) carburetors rivers eiectors springs (water) bays (topographic features) feeders water pollution Delaware Bay (US) fuel injection water resources fiords fuel systems water runoff gulfs injection lagoons inlet airframe configurations Persian Gulf jet flow jet mixing flow DEF Optimum locations of engine inlets for Saginaw Bay (MI) ∞ jet nozzles various purposes. sounds (topographic features) ∞ jets GS intake systems nozzle flow . air intakes inliers (landforms) Areas or groups of rocks surrounded ∞ nozzles . inlet airframe configurations DEF by rocks of younger age. bypass ratio orifices engine inlets GS landforms pumps flow geometry . inliers (landforms) spray nozzles hypersonic inlets erosion Injun 1 satellite inlet flow geological faults GS artificial satellites inlet nozzles geology . Injun satellites petrography nose inlets . . İnjun 1 satellite side inlets petrology rock intrusions supersonic inlets Injun 3 satellite GS artificial satellites structural properties (geology) inlet flow . Injun satellites GS fluid flow . . Ínjun 3 satellite . internal flow **INMARSAT** satellites . inlet flow (added September 1994) Injun 4 satellite bypass ratio GS artificial satellites GS artificial satellites choked flow **INMARSAT** satellites . Injun satellites communication satellites ∞ diffusers . . Ínjun 4 satellite dump combustors international cooperation flow geometry Marisat satellites Injun 5 satellite NAVSTAR satellites fluid injection USE Explorer 40 satellite head flow telecommunication inlet airframe configurations

intake systems

vortex generators

∞ pressure drop supersonic inlets

inlet nozzles

RT air intakes

inner radiation belt

environments

particles

. inner radiation belt

. . magnetically trapped particles

. charged particles

. . . radiation belts

Injun Explorer

Injun satellites

USE Explorer 25 satellite

artificial satellites

. Injun satellites

. . Explorer 25 satellite

|           | inner radiation belt  | RT        | organic peroxides                  |                           | arthropods   |
|-----------|---|-----------|------------------------------------|---------------------------|--|
|           | . corpuscular radiation   |           |                                    |                           | insects  |
|           | radiation belts   | inorgar   | nic sulfides                       |                           | bees   |
|           | inner radiation belt  | GS        |                                    |                           | bollworms  |
|           | . trapped particles   |           | . sulfides                         |                           | chironomus flies   |
|           | magnetically trapped particles                                      |           | inorganic sulfides                 |                           | cockroaches  |
|           | radiation belts   |           | barium sulfides                    |                           | Coleoptera   |
|           | inner radiation belt  |           | bismuth sulfides                   |                           | beetles  |
| RT        | artificial radiation belts  |           | cadmium sulfides                   |                           | tribolia   |
|           | outer radiation belt  |           | calcium sulfides                   |                           | boll weevils   |
|           | proton belts  |           | copper sulfides                    |                           | crickets   |
| c         | ∞ radiation   |           | hydrogen sulfide                   |                           | Drosophila   |
|           | single event upsets   |           | indium sulfides                    |                           | fireflies  |
|           | g   |           | lead sulfides                      |                           | grasshoppers   |
| inocula   | tion.   |           | molybdenum sulfides                |                           | locusts  |
| UF        |   |           | molybdenum disulfides              |                           | moths  |
|           | seeding (inoculation)   |           | polysulfides                       |                           | silkworms  |
| RT        | crystal growth  |           | strontium sulfides                 | RT                        | entomology   |
|           | crystallization   |           | zinc sulfides                      | IXI                       | infestation  |
|           | immunity  |           | wurtzite                           |                           | larvae   |
|           | initiation  |           | zincblende                         |                           |  |
|           | nucleation  |           | sulfur compounds                   |                           | pupa   |
|           | vaccines  |           | . sulfides                         | inconcit                  | is it i  |
|           |   |           |                                    | insensit                  |  |
| inoculu   | ım  |           | inorganic sulfides                 | USE                       | sensitivity  |
| GS        | serums  |           | barium sulfides                    | incontin                  |  |
|           | . inoculum  |           | bismuth sulfides                   | insertic                  |  |
|           | vaccines  |           | cadmium sulfides                   | GS                        | insertion  |
|           | . inoculum  |           | calcium sulfides                   |                           | . orbit insertion  |
| RT        | antibodies  |           | copper sulfides                    | RT                        | collating  |
| KI        |   |           | hydrogen sulfide                   |                           | embedding  |
|           | antigens  |           | indium sulfides                    |                           | grafting   |
|           | physiological defenses  |           | lead sulfides                      |                           | implantation   |
|           |   |           | molybdenum sulfides                |                           | impregnating   |
| inorgar   | nic chemistry   |           | molybdenum disulfides              |                           | inserts  |
| DEF       | The study of the composition, proper-                               |           | polysulfides                       |                           | network analysis   |
| ties, str | ructure, and reactions of the chemical                              |           | strontium sulfides                 |                           | transmission loss  |
|           | ts and all their compounds with the ex-                             |           | zinc sulfides                      |                           | 1413111331011 1033   |
|           | of hydrocarbons and their derivatives.                              |           |                                    | insertic                  | n loss   |
| RT        | analytical chemistry  |           | wurtzite                           | RT                        |  |
|           |   |           | zincblende                         | KI                        | energy dissipation   |
| c         | ∞ chemistry   |           |                                    |                           | losses   |
|           |   | inosito   |                                    |                           | transmission loss  |
| inorgar   | nic coatings  | GS        | organic compounds                  |                           |  |
| GS        | coatings  |           | . carbohydrates                    | inserts                   | *  |
|           | . inorganic coatings  |           | sugars                             | GS                        | inserts  |
|           | anodic coatings   |           | inositols                          |                           | . nozzle inserts   |
|           | ceramic coatings  |           |                                    | RT                        | accessories  |
| RT        | antiradar coatings  | input     |                                    |                           | bushings   |
|           | protective coatings   | RT        | accumulations                      |                           | fasteners  |
|           | protective ecatings   |           | collection                         |                           | fittings   |
|           |   |           | feeding (supplying)                |                           | insertion  |
|           | nic compounds   |           | filling                            |                           | linings  |
| GS        | inorganic compounds   |           | injection                          |                           | spacers  |
|           | . ammonia   |           | ∞ loading                          |                           | spools   |
|           | liquid ammonia  | · ·       | output                             |                           | washers (spacers)  |
| RT        | acids   |           | reading                            |                           | washers (spacers)  |
|           | ∞ bases   |           | •                                  | inshore                   | zones  |
| c         |   |           | replenishment                      |                           | beaches  |
|           | flame retardants  |           | supplying                          | USL                       | beaches  |
|           | intermetallics  |           |                                    | insolati                  | on   |
|           | molten salts  |           | utput routines                     |                           |  |
|           | ∞ salts   | GS        | computer programs                  | DEF                       | 9  |
|           | - Juito   |           | . computer systems programs        |                           | th's surface. The rate at which direc  |
|           |   |           | input/output routines              |                           | diation is incident upon a unit horizonta  |
|           | nic materials   | RT        | data transfer (computers)          |                           | at any point on or above the surface o   |
| SN        | (USE OF A MORE SPECIFIC TERM IS                                     |           | disk operating system (DOS)        |                           | Contracted from INcoming SOLar radiA   |
|           | RECOMMENDED CONSULT THE TERMS LISTED BELOW)                         |           | operating systems (computers)      | TION).                    |  |
| RT a      | ∞ materials   |           | random access                      | GS                        | solar energy   |
| 101       | nonflammable materials  | c         | ∞ routines                         |                           | . insolation   |
|           | refractory materials  |           |                                    | RT                        | greenhouse effect  |
|           | thermochromatic materials   | INSAT :   | satellites                         |                           | meteorology  |
|           |   |           | Indian spacecraft                  |                           | photosynthetically active radiation  |
|           | vitreous materials  | 002       | maian opasosian                    |                           | solar heating  |
|           |   | insect o  | damage                             |                           | solar radiation  |
| inorgar   | nic nitrates  |           | infestation                        |                           | sunlight   |
| GS        | nitrogen compounds  | UUL       | otation                            |                           | Surface Meteorology and Solar  |
|           | . nitrates  | insection | nidos                              |                           |  |
|           | . inorganic nitrates  | GS        |                                    |                           | Energy project   |
|           | ammonium nitrates   | GS        | •                                  | !===:                     | io   |
|           | hydrazine nitrate   |           | . pesticides                       | insomn                    |  |
|           | potassium nitrates  |           | insecticides                       | GS                        | sleep  |
|           | silver nitrates   |           | Carbamates (tradename)             |                           | insomnia   |
|           |   |           | urethanes                          | RT                        | sleep deprivation  |
|           | sodium nitrates   |           | DDT                                |                           |  |
|           |   |           | dieldrin                           | inspect                   | ion  |
| inorgo    |   |           | phenothiazines                     |                           | The process of measuring, examining  |
| illorgai  | nic peroxides   |           |                                    |                           |  |
|           |   | RT        |                                    | testing                   | gaging, or making other determinations   |
| UF        | superoxides   | RT        | endrin endrin                      |                           | gaging, or making other determinations   |
|           | superoxides<br>chalcogenides  | RT        | endrin<br>entomology               | with res                  | spect to materials, products, services   |
| UF        | superoxides<br>chalcogenides<br>. oxides                            | RT        | endrin endrin                      | with res                  | spect to materials, products, services s, or environments.   |
| UF        | superoxides<br>chalcogenides<br>. oxides<br>anhydrides              |           | endrin<br>entomology<br>toxicology | with res                  | spect to materials, products, services<br>s, or environments.<br>inspection                          |
| UF        | superoxides<br>chalcogenides<br>. oxides<br>anhydrides<br>peroxides | insects   | endrin<br>entomology<br>toxicology | with res                  | spect to materials, products, services<br>s, or environments.<br>inspection<br>. infrared inspection |
| UF        | superoxides<br>chalcogenides<br>. oxides<br>anhydrides              |           | endrin<br>entomology<br>toxicology | with res<br>systems<br>GS | spect to materials, products, services<br>s, or environments.<br>inspection                          |

checkout universities chemical tests radar approach control construction instrument approach radio altimeters A series of predetermined maneuvers detection radio beacons for the orderly transfer of an aircraft under ∞ systems endoscopes evaluation instrument flight conditions from the beginning tracking (position) examination of the initial approach to a landing, or to a point instrument orientation identifying from which a landing may be made visually. nondestructive tests approach alignment performance tests instrument approach attitude (inclination) aircraft approach spacing bearing (direction) preventive maintenance aircraft instruments directivity quality control sampling approach control look angles (electronics) specifications approach indicators orientation standards blind landing positioning flight control static tests statistical analysis flight instruments instrument packages surveillance glide paths GS packages landing aids . instrument packages tolerances (mechanics) . . Apollo Lunar Surface Experiments ultrasonic flaw detection landing radar night flights (aircraft) Package ..EASEP Inspector satellite . EREP artificial satellites instrument compensation GS RT AMPS (satellite payload) . Inspector satellite instrument compensation GS military spacecraft automatic weather stations temperature compensation data collection platforms . reconnaissance spacecraft adaptive optics calibrating local scientific survey module . . Inspector satellite ∞ compensation modules molecular shields error correcting devices inspiration intellect laser guide stars ocean data acquisitions systems RT Orbiting Frog Otolith mental performance systematic errors payload assist module psychology instrument drift payloads instability USE drift (instrumentation) satellite-borne instruments USE stability instrument errors spacecraft instruments installation weather stations GS errors USE installing instrument errors instrument receivers bias installation manuals boresight error RT controllers calibrating GS documents ∞ detectors drift (instrumentation) display devices . manuals indicating instruments . . installation manuals linearity ∞ instruments optical correction procedure installing spectral sensitivity isotropic turbulence UF installation measuring instruments systematic errors assembling receivers recording instruments construction instrument flight rules IFR (rules) look angles (electronics) UF transducers maintenance GS rules instrument transformers relocation flight rules . instrument flight rules transformers replacing . instrument transformers retrofitting air navigation air traffic control RT ∞ converters resolvers instantons approach control Field configurations of Yang-Mills beacons instrument transmitters theory which are localized in space and time. blind landing GS transmitters These configurations are solutions of the Yangflight conditions Mills field equations in Euclidean space time . instrument transmitters flight instruments which allow the transitions (tunneling) from one vacuum state to another. controllers flight plans ∞ instruments landing measuring instruments elementary particles low visibility recording instruments plasma physics instrument landing systems transducers quantum chromodynamics A system which provides, in the airquarks instrumental analysis craft, a display of the lateral, longitudinal, and USE analyzing vertical references necessary for a landing. Used for ILS (landing systems). institutions automation institutions GS bureaus (organizations) ILS (landing systems) instrumentation RT federations GS landing aids USE instruments . instrument landing systems all-weather landing systems ∞ instruments instruction sets (computers) air traffic control (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN alphanumeric characters aircraft guidance Boolean algebra aircraft instruments computer programs aircraft landing instrumentation mathematical logic airports actuators approach control Advanced Range Instrumentation instructions approach indicators Ship automatic landing control aircraft instruments USE education blind landing Apollo Lunar Surface Experiments instructors display devices Package automatic control UF teachers flight control GS personnel flight instruments bioinstrumentation instructors glide paths bubble technique education ground based control controllers learning ∞ instruments densimeters landing schools display devices landing instruments drag force anemometers

night flights (aircraft)

EASEP

students

training evaluation

|           | EREP                            | RT         | attenuators                               | GS       | number theory                       |
|-----------|---------------------------------|------------|---|----------|-------------------------------------|
|           | flight instruments              |            | dielectrics                               |          | . integers                          |
|           | force vector recorders          |            | electric conductors                       |          | real numbers                        |
|           | haploscopes                     |            | electrical insulation                     |          | . integers                          |
|           | heliostats                      |            | insulation                                | RT       | arithmetic                          |
|           | helmet mounted displays         |            | transmission lines                        |          | complex numbers                     |
|           | indicating instruments          |            |   |          | congruences                         |
|           | instrument landing systems      | insulin    |   |          | digits                              |
|           | instrument receivers            | GS         | drugs                                     | ~        | o numbers                           |
|           | instrument transmitters         |            | . insulin                                 |          | · Humbers                           |
|           | laser altimeters                |            | secretions                                | integral | calculus                            |
|           |                                 |            | . endocrine secretions                    | GS       |                                     |
|           | measuring instruments           |            | insulin                                   | 00       | . calculus                          |
|           | meteorological instruments      | RT         | diabetes mellitus                         |          |                                     |
|           | microwave sensors               | 13.1       | diabetes meintas                          |          | . integral calculus                 |
|           | monitors                        | insuran    | ice (contracts)                           |          | . real variables                    |
|           | navigation instruments          |            | Coverage by contract whereby one          |          | measure and integration             |
|           | oculometers                     |            | ndertakes to indemnify or guarantee an-   |          | integral calculus                   |
|           | packages                        |            | gainst loss by a specified contingency or | RT       | area                                |
|           | propellant actuated instruments | peril.     | gamet lede by a operimed commigency of    |          | differential calculus               |
|           | recording instruments           | GS         | contracts                                 |          | integrals                           |
|           | remote control                  | 00         | . insurance (contracts)                   |          | J integral                          |
|           | rocket-borne instruments        | RT         | agreements                                |          | numerical integration               |
|           | satellite instruments           | KI         |   |          | operational calculus                |
|           | satellite-borne instruments     |            | air law                                   |          |                                     |
|           | scatterometers                  |            | aircraft accident investigation           | integral | equations                           |
|           | SIM                             |            | aircraft accidents                        | ŰF       | integrodifferential equations       |
|           | sodar                           |            | assurance                                 | GS       | analysis (mathematics)              |
|           | sound detecting and ranging     |            | economic factors                          |          | . functional analysis               |
|           | spacecraft instruments          |            | extensions                                |          | integral equations                  |
|           | •                               |            | grants                                    |          | Fredholm equations                  |
|           | surgical instruments            |            | legal liability                           |          | J integral                          |
|           | transducers                     |            | public law                                |          |                                     |
|           | transmitters                    |            | space commercialization                   |          | singular integral equations         |
|           | tribometers                     |            | space law                                 |          | Volterra equations                  |
|           | turbine instruments             |            | 1   | БТ       | Wiener Hopf equations               |
|           | ultrasonic densimeters          | intake s   | systems                                   | RT       | asymptotic properties               |
|           |                                 | UF         | induction systems                         |          | calculus of variations              |
|           | ed structures                   |            | inlets (devices)                          |          | differential equations              |
| SN        | (USE OF A MORE SPECIFIC TERM IS | GS         | intake systems                            |          | distributed parameter systems       |
|           | RECOMMENDEDCONSULT THE TERMS    |            | . air intakes                             | 0        | o equations                         |
| DT        | LISTED BELOW)                   |            | engine inlets                             |          | ill-conditioned problems            |
| RT        | dielectrics                     |            | hypersonic inlets                         |          | (mathematics)                       |
|           | electrical insulation           |            | inlet airframe configurations             |          | ill-posed problems (mathematics)    |
|           | heat radiators                  |            | supersonic inlets                         |          | Mellin transforms                   |
|           | heat shielding                  |            | . conical inlets                          |          | method of moments                   |
|           | hypersonic vehicles             |            |   |          | nonlinear equations                 |
|           | insulation                      |            | . helical inducers                        |          | Percus method                       |
|           | radiation shielding             |            | . internal compression inlets             |          | range (extremes)                    |
|           | reentry shielding               |            | . nose inlets                             |          | Schmidt method                      |
|           | reentry vehicles                |            | . side inlets                             |          |                                     |
|           | spacecraft shielding            | RT         | aerodynamic configurations                |          | transport theory                    |
|           | 3                               |            | annular ducts                             |          |                                     |
| insulatir | ng materials                    |            | bypass ratio                              |          | functions                           |
|           | insulation                      |            | cooling systems                           | USE      | entire functions                    |
| OOL       | modiation                       |            | duct geometry                             |          |                                     |
| insulati  |                                 |            | ducted bodies                             |          | rocket ramjets                      |
|           |                                 |            | ducts                                     |          | A combination of a solid propellar  |
| SN        | (MATERIAL)                      |            | entrances                                 | rocket   | and a ramjet which uses the empt    |
| UF        | insulating materials            |            | exhaust systems                           | booster  | case as a ramjet combustor.         |
| GS        | insulation                      |            | feed systems                              | GS       | engines                             |
|           | . electrical insulation         |            | feeders                                   |          | . air breathing engines             |
|           | . multilayer insulation         |            |   |          | gas turbine engines                 |
|           | . thermal insulation            |            | fuel systems                              |          | jet engines                         |
| RT        | absorbers (materials)           |            | inlet flow                                |          | ramjet engines                      |
|           | asbestos                        |            | inlet nozzles                             |          | integral rocket ramjets             |
|           | ceilings (architecture)         |            | inlet temperature                         |          | . internal combustion engines       |
|           | composite materials             |            | manifolds                                 |          | gas turbine engines                 |
|           | concretes                       |            | openings                                  |          | jet engines                         |
| ~         | construction materials          |            | pipe nozzles                              |          | ramjet engines                      |
|           | damping                         |            | plenum chambers                           |          | integral rocket ramjets             |
|           | honeycomb structures            |            | ramps (structures)                        |          | •                                   |
| ~         | insulated structures            |            | scoops                                    |          | turbine engines                     |
|           | insulators                      | ۰          | ∘ systems                                 |          | gas turbine engines                 |
|           | interlayers                     | ۰          | water intakes                             |          | jet engines                         |
|           | isolation                       |            |   |          | ramjet engines                      |
|           | isolators                       | Intasat    | satellite                                 |          | integral rocket ramjets             |
|           | iackets                         | GS         | artificial satellites                     | RT       | rocket-based combined-cycle engines |
|           | ,                               |            | . scientific satellites                   |          | solid propellant rocket engines     |
|           | lining processes                |            | Environmental Research Satellites         |          | turbine engines                     |
|           | linings                         |            | Intasat satellite                         |          |                                     |
| ox        | o materials                     | RT         | Earth ionosphere                          |          | transformations                     |
|           | micarta                         |            | lower atmosphere                          | UF       | transform integrals                 |
|           | oxides                          |            | magnetic fields                           | GS       | analysis (mathematics)              |
|           | potting compounds               |            | troposphere                               |          | . functional analysis               |
|           | protection                      |            | op soprior o                              |          | integral transformations            |
|           | suppressors                     | Intea M    | ed and Behavioral Lab Measur System       |          | Fourier transformation              |
|           | vermiculite                     |            | IMBLMS                                    |          | fast Fourier transformations        |
|           | waterproofing                   |            |   |          | Fourier-Bessel transformations      |
|           | . •                             | Integ Pi   | rogram for Aerospace Veh Design           |          |                                     |
| insulato  | ors                             | UŠE        | IPAD                                      |          | Hilbert transformation              |
| SN        | (EXCLUDES THERMAL               | • . •      | _   |          | Laplace transformation              |
| SIN       | INSULATIONLIMITED TO DEVICES    | integer    |   |          | transformations (mathematics)       |
|           | COMPOSED OF ELECTRICALLY        |            | Whole numbers; numbers that are not       |          | integral transformations            |
|           | INSULATIVE MATERIALS)           | a fraction | nn  |          | Fourier transformation              |

... fast Fourier transformations libraries RT circuits Fourier-Bessel transformations on-line systems differentiators Hilbert transformation solions . Laplace transformation Integrated Maneuvering Life Support Sys convolution integrals USE IMLSS integrity Lighthill method integrity . computer program integrity completeness operators (mathematics) integrated mission control center IMCC (control center) GS integrals stations privacy DEF Of or pertaining to an integer. . ground stations security vulnerability GS integrals .. integrated mission control convolution integrals center RT differential equations RT ∞ control integrodifferential equations functionals Gemini project differential equations integral calculus ground based control integral equations ∞ mathematics real time operation Intel 8080 microprocessor GS computer components integrated circuits integrated optics DEF Combinations of interconnected circuit Thin film devices containing tiny . microprocessors elements inseparably associated on or within lenses, prisms, and switches to transmit very . . Intel 8080 microprocessor data processing equipment continuous substrates. To further define the nathin laser beams, which serve the same purture of integrated circuits, additional modifiers poses as the manipulation of electrons in thin . microprocessors
. Intel 8080 microprocessor may be prefixed. film devices of integrated electronics. ÚF monolithic circuits electro-optics RT computers GS circuits free-space optical interconnects . integrated circuits integrated circuits intellect . . application specific integrated Langmuir-Blodgett films GS intelligence circuits lenses . intellect . . DTL integrated circuits light transmission artificial intelligence . . encapsulated microcircuits monomolecular films inspiration . . field-programmable gate arrays optical bistability mental performance large scale integration optical interconnects psychology . . linear integrated circuits optical switching medium scale integration optical waveguides . . TTL integrated circuits intellectual property ∞ optics very large scale integration
VHSIC (circuits) optoelectronic devices (added October 1995) thin films GS intellectual property . copyrights RT burn-in . patents **Integrated Truss Structure P1** charge flow devices charge flow devices
chips (electronics)
chips (memory devices)
electronic packaging
evolvable hardware
hardware description languages
integrated optics computer programs (added November 2002) A structural component of the Internainventions tional Space Station incorporating elements of the External Active Thermal Control Subsystem, law (jurisprudence) legal liability the UHF-band communications subsystem, and licensing portions of the rail system for the Mobile Servicopen source licensing (computers) patent policy ing System. ion implantation procurement policy space station structures latch-up GS . Integrated Truss Structure P1 International Space Station microchannel plates microminiaturization intelligence microprocessors large space structures intelligence microstrip devices trusses artificial intelligence molecular electronics . extraterrestrial intelligence Integrated Truss Structure S1
(added October 2002)
DEF A structural component of the International Space Station incorporating elements of the External Active Thermal Control Subsystem, optoelectronic devices intellect photomasks RT abilities photoresists cognitive psychology printed circuits intelligence tests reconfigurable hardware mental health the S-band communications subsystem, and thick films mental performance thin films portions of the rail system for the Mobile Servicing System. transistor circuits intelligence tests space station structures (added September 1992) integrated energy systems **Integrated Truss Structure S1** abilities DEF Community systems for energy gen-International Space Station human performance eration and distribution. large space structures intelligence communities trusses mental performance electric power plants personality tests energy conversion Integrated Truss Structure Z1 personnel selection energy distribution (added June 2000) psychological tests An early exterior framework for the heating ∞ tests International Space Station to allow the first U.S. solar arrays to be temporarily installed on the total energy systems intelligent materials Unity module for early power. utilities (added March 1998) Z1 truss structure USE smart materials space station structures integrated global ocean station systems Integrated Truss Structure Z1 UF IGOSS intelligent structures RT data collection platforms International Space Station USE smart structures Global Atmospheric Research Program Unity connecting module ground stations intelligibility international cooperation intelligibility integration (real variables) GS oceanographic parameters USE measure and integration . speech recognition ∞ systems ambiguity weather stations integrators ∞ coherence communication theory DEF In digital computers, devices for ac-

complishing a numeric approximation of the

mathematical process of integration. Devices

whose output is proportional to the integral of an

input signal.

integrators

digital integrators

GS

∞ interpretation

messages

orthography phonemics

psycholinguistics

phonetics

integrated library systems

information systems

information retrieval

. integrated library systems information dissemination

information management

scrambling (communication) gas-liquid interactions standardization gas-metal interactions interception Intelsat satellites gas-solid interactions GS artificial satellites RT autonomous docking high energy interactions . communication satellites interacting galaxies docking proportional navigation . Intelsat satellites ion atom interactions laser plasma interactions pursuit-evasion games intensification laser target interactions rendezvous USE amplification man environment interactions spacecraft docking meson-meson interactions Interceptor aircraft intensifier tubes meson-nucleon interactions USE fighter aircraft USE image intensifiers molecular collisions molecular interactions ∞ interceptors intensifiers nuclear capture (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) fighter aircraft SN GS intensifiers nuclear interactions . image intensifiers nuclear reactions . . image orthicons nucleon-nucleon interactions amplifiers particle interactions satellite interceptors particle theory photon-electron interaction YF-12 aircraft ∞ intensity SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)

DEF In general, the degree or amount, usually expressed by the elemental time rate or plasma interaction experiment interconnection USE joining plasma interactions plasma-electromagnetic interaction plasma-particle interactions proton-proton reactions intercontinental ballistic missiles ICBM (missiles) spatial distribution of some condition or physical missiles shock wave interaction quantity, such as electric field, sound, magne-. ballistic missiles solar terrestrial interactions tism, etc. With respect to electromagnetic radia-. . intercontinental ballistic missiles sound-sound interactions tion, a measure of the radiant flux per unit solid . . . Atlas ICBM angle emanating from some source. Frequently, spin-orbit interactions . . . . Atlas D ICBM it is desirable to specify this as radiant intensity strong interactions (field theory) . . . . Atlas E ICBM in order to distinguish it clearly from luminous wave interaction . Atlas F ICBM weak energy interactions intensity. . . . Minuteman ICBM amplitudes brightness flux (rate) weak interactions (field theory) RT MX missile . . . Titan ICBM interactive control . . . . Titan 1 ICBM DEF The sending of multiple commands that are selected on the basis of data received flux density level (quantity) . surface to surface missiles from an experiment in real time. loudness . . intercontinental ballistic missiles RT active control **luminance** ∞ control . . . Atlas ICBM luminous intensity . . . . Atlas D ICBM control theory magnitude . . . . Atlas E ICBM . . . . Atlas F ICBM numerical control noise intensity radiance Minuteman ICBM stellar magnitude interactive graphics MX missile USE computer graphics . . . Titan ICBM interacting galaxies . . . . Titan 1 ICBM (added November 1988) interactive multimedia ... Titan 2 ICBM USE multimedia galaxy interaction fleet ballistic missiles celestial bodies intermediate range ballistic missiles interannual variations . galaxies Mark 1 reentry body . . interacting galaxies (added September 2000) Mark 2 reentry body galactic structure annual variations Mark 3 reentry body o interactions Mark 4 reentry body retrograde orbits interatomic forces Mark 5 reentry body ring galaxies atomic force microscopy Mark 6 reentry body shell galaxies atomic structure Mark 11 reentry body stellar systems embedded atom method Mark 12 reentry body lattice energy Mark 17 reentry body interactional aerodynamics Van der Waals forces transoceanic systems fluid mechanics . fluid dynamics intercalation Intercosmos satellites . . gas dynamics DEF Production of layer type semiconduct-GS artificial satellites . . interactional aerodynamics ing as well as other conducting materials (also . geophysical satellites RT called synthetic metals). airfoils . . Cosmos satellites blade-vortex interaction stratification GS . . . Intercosmos satellites computational fluid dynamics intercalation . Soviet satellites ∞ flow RT ∞ chemical compounds . . Cosmos satellites laminar boundary layer graphite ... Intercosmos satellites rotor stator interactions interlayers shock wave interaction ∞ lavers intercranial circulation GS circulation intercalibration . blood circulation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) (added January 1999) . . intercranial circulation DEF Calibration between two or more data cranium air land interactions sources, including (1) the comparison of data skull air sea ice interactions sets acquired by different types of measurement air water interactions systems for the purpose of deducing the calibrainterdigital transducers atomic collisions tion values for one of the measurement systransducers GS interdigital transducers tems; (2) the mutual calibration of data from atomic interactions beam interactions different measurement systems through the digital transducers comparison of the data with model calculations; blade-vortex interaction electroacoustic transducers configuration interaction and (3) the calibration of multiple detectors on a piezoelectric transducers single instrument through the comparison of electromagnetic interactions surface acoustic wave devices electron phonon interactions data from each detector.

calibrating

comparison

correction

intercalibration

multisensor applications

GS

electroweak interactions (field theory)

elementary particle interactions fluid-solid interactions

gas-gas interactions

gas-ion interactions

interface stability

GS

stability

interface stability

gas-solid interfaces

fluid boundaries

interfaces liquid sloshing liquid-liquid interfaces liquid-solid interfaces liquid-vapor interfaces Taylor instability ullage

#### interfaces

A common boundary between two DEF parts of a system, whether material or non material. Specifically, in a rocket vehicle or other mechanical assembly, a common boundary between two components. Specifically, in fluid dynamics, a surface separating two fluids across which there is a discontinuity of some fluid property such as density or velocity or of some derivative of these properties in a direction normal to the interface. The equations of motion do not apply at the interface but are replaced by the boundary conditions.

#### interfaces

. fiber-matrix interfaces . fluid boundaries

. . gas-solid interfaces

jet boundaries

. . liquid-liquid interfaces

liquid-solid interfaces

. . liquid-vapor interfaces . graphical user interface

. . windows (computer programs)
. human-computer interface

solid-solid interfaces

boundaries

coordination

data processing equipment free boundaries

interface stability

management planning project management

surface properties

surface reactions

∞ surfaces

telecommunication

#### interfacial energy

adhesion

antiphase boundaries

electron energy

∞ energy

fiber pullout

fiber pushout fiber-matrix interfaces

liquid-liquid interfaces

shear strength

stiction

surface energy

interfacial strain

USE interfacial tension

#### interfacial tension

DEF That property, due to molecular forces, that exists in the surface film of all liquids and tends to prevent the liquid from spreading. Used for interfacial strain and surface tension.

UF interfacial strain

surface tension

GS surface properties

interfacial tension

Bond number

capillary waves

gas-liquid interactions Gibbs adsorption equation

globules

liquid bridges

liquid surfaces

liquid-liquid interfaces

Marangoni convection mechanical properties

ripples

sliding

spreading

surface energy

surface stability

surface tension driven convection

∞ surfaces

tensile stress

∞ tension

thermocapillary migration

tribology vapor pressure wetting

#### ∞ interference

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

aerodynamic interference

coherence coefficient

crosstalk disrupting

electromagnetic compatibility electromagnetic interference

hum

incompatibility

interference factor table

interference grating intersymbolic interference jamming

nonsynchronization radio frequency interference Ramsauer effect

support interference

wave diffraction

wave front deformation

#### interference drag

GS aerodynamic characteristics

interference drag

dynamic characteristics

. drag

. . pressure drag

. . . wave drag

... interference drag propeller slipstreams

supersonic drag

upwash

#### interference factor table

tables (data)

interference factor table

RT ∞ interference

modulation

multichannel communication

DEF The condition where the diameter of the fastener is larger than the hole that it is to fit

GS joints (junctions)

interference fit RT

aircraft structures

fasteners fatigue life

fitting

mechanical properties

stress analysis

interference grating
RT fringe multiplication
∞ gratings

∞ interference

Moire effects Moire fringes

radio filters

radio frequency interference

#### interference immunity

electromagnetic interference noise reduction

radio frequency interference

signal processing

signal to noise ratios

space-time adaptive processing

# interference lift

GS aerodynamic characteristics

. . interference lift

aerodynamic forces . lift

. interference lift distribution (property)

. interference lift

dynamic characteristics

. lift . . interference lift RT upwash

interference monochromatization

USE diffraction

monochromatization

interferograms

USE interferometry

#### interferometers

Apparatus used to produce and measure interference from two or more coherent wave trains from the same source. Interferometers are used to measure wavelengths, to measure angular width of sources, to determine the angular position of sources (as in satellite tracking), and for many other purposes.

GS measuring instruments
. interferometers

. . etalons

. . Fabry-Perot interferometers

. infrared interferometers
. Mach-Zehnder interferometers

. . Michelson interferometers . . microwave interferometers

. . phase switching interferometers

. radio interferometers astronomical interferometry

Bragg gratings

diffractometers

flatness goniometers

optical equipment

optical measurement

optical measuring instruments photogoniometers Ronchi test

Sagnac effect very long base interferometry

interferometry

interferograms UF GS

interferometry astronomical interferometry

differential interferometry

holographic interferometry laser interferometry

Moire interferometry Ronchi test

shearography

speckle interferometry very long base interferometry

diffraction patterns

Fresnel diffraction

Fresnel reflectors infrared interferometers

isochromatics null zones

plasma flux measurement Sagnac effect

scatter plates (optics)

interferon DEF A protein (lymphokine) released by cells in response to virus infection. When taken up by other cells, interferon inhibits the replication of viruses within them.

acquired immunodeficiency syndrome bacteriophages RT

biochemistry

∞ biology

viruses

human immunodeficiency virus physiological defenses

# intergalactic media

extragalactic media

media

. intergalactic media cooling flows (astrophysics) cosmic dust

cosmic gases cosmic plasma dark matter galactic halos

mass distribution

stellar winds

474

Sunyaev-Zeldovich effect . intermediate frequencies discriminators high frequencies frequency analyzers intergranular corrosion low frequencies frequency modulation DEF Corrosion that ocurrs preferentially at remodulation grain boudaries. intermediate frequency amplifiers sound-sound interactions chemical attack GS amplifiers wave interaction . intergranular corrosion intermediate frequency amplifiers intermolecular forces corrosion beat frequencies . intergranular corrosion crystal filters GS level (quantity) grain boundaries heterodyning . energy levels stress corrosion logarithmic receivers . . molecular energy levels transgranular corrosion intermolecular forces preamplifiers radio receivers molecular properties interim stages (spacecraft)
GS interim stages (spacecraft)
. Inertial Upper Stage
RT multistage rocket vehicles
recoverable spacecraft . molecular energy levels transistor amplifiers intermolecular forces configuration interaction intermediate range ballistic missiles IRBM (missiles) excimers GS missiles Lennard-Jones potential reusable spacecraft molecular interactions . ballistic missiles space shuttles molecular structure . . intermediate range ballistic stage separation Van der Waals forces missiles virial coefficients . . . Blue Streak missile interim upper stage (STS)
USE Inertial Upper Stage . . . Jupiter missile intermontane floors polaris missiles USE valleys .... Polaris A1 missile interior ballistics Polaris A2 missile That branch of ballistics that deals with internal combustion engines . . Polaris A3 missile the propulsion of projectiles, i.e., the motion and (EXCLUDES ROCKET ENGINES) . surface to surface missiles behavior of projectiles in a gun barrel, the temengines . . intermediate range ballistic peratures and pressures developed inside a gun . internal combustion engines missiles barrel or rocket. . . diesel engines Blue Streak missile GS ballistics . . gas turbine engines . . . Jupiter missile interior ballistics . . . hydrogen engines ... polaris missiles propellant tests jet engines . . . . Polaris A1 missile . . . T-58 engine . . . . Polaris A2 missile interlacing drainage . . . . ramjet engines Polaris A3 missile USE drainage patterns . . . . integral rocket ramjets field army ballistic missiles low volume ramjet engines fleet ballistic missiles interlaminar stress . . . . . pulsejet engines intercontinental ballistic missiles (added July 1992) .... supersonic combustion ramjet Mark 1 reentry body stresses engines Mark 2 reentry body interlaminar stress . . . . turboramjet engines Mark 3 reentry body composite materials . . . . turbojet engines short range ballistic missiles delaminating . . . . Bristol-Siddeley Olympus 593 interlayers engine intermetallics laminates . . . . Bristol-Siddeley Viper engine (COMPOUNDS CONSISTING OF ONLY METALLIC ELEMENTS) electron compounds SN shear stress . . . . ducted fan engines stress distribution UF J-33 engine stress-strain relationships intermetallics GS . . . . J-34 engine J-47 engine . heavy fermion systems interlayers . heavy fermion superconductors . . J-52 engine GS interlayers RT alloying J-57 engine multilayer insulation allovs . . . . J-58 engine RT barrier layers aluminides J-65 engine fabrics ammines . . J-69-T-25 engine insulation antiphase boundaries J-71 engine intercalation arsenides . . J-73 engine interlaminar stress J-75 engine borides laminates cluster variation method J-79 engine ∞ layers indium gallium arsenides inorganic compounds J-85 engine ply orientation J-93 engine sandwich structures iron aluminides metalloids RA-28 engine ∞ transition layers turbofan engines Bristol-Siddeley BS 53 engine metals interleukins mischmetal CF-700 engine (added August 2004) nickel aluminides convertible fan-shaft engines Soluble factors which stimulate phase diagrams J-97 engine growth-related activities of leukocytes as well as photoelectromagnetic effects TF-30 engine other cell types. They enhance cell proliferation semiconductors (materials) TF-34 engine and differentiation, DNA synthesis, secretion of other biologically active molecules and re-TF-41 engine silicides tellurides turboprop engines sponses to immune and inflammatory stimuli. titanium aluminides T-34 engine cells (biology) T-38 engine differentiation (biology) intermittency . T-53 engine immune systems cycles T-55 engine immunology pulses . T-56 engine leukocytes random processes T-63 engine . . . T-64 engine interlocking intermittency hypothesis T-74 engine locking USE hypotheses . . . T-76 engine GS intermittency hypothesis . T-78 engine intermedia turboramjet engines USE multimedia photographic recording . . helicopter engines . . rotary engines . . . Wankel engines intermediate frequencies intermodulation

The modulation of the components of a

complex wave by each other in a nonlinear

modulation

demodulation

intermodulation

DEF

system.

GS

RT

DEF The beat frequencies used in hetero-

dyne receivers, usually the difference between

the received radiofrequency signal and a locally

generated signal.

GS

frequencies

. radio frequencies

RT afterburning aircraft engines

∞ bearing

automobile engines

automobile fuels

### internal compression inlets

bearings damping International Satellite Geodesy booster rocket engines density (mass/volume) Experiment eddy viscosity International Space Station cams carburetors hysteresis North Atlantic Treaty Organization combustion mechanical properties (NATO) combustion chambers ∞ physical properties Orbiting Frog Otolith diesel fuels plastic flow Palapa 2 satellite distributors viscosity Palapa satellites ducted rocket engines peacetime electric hybrid vehicles politics internal pressure (LIMITED TO PRESSURE INSIDE A PORTION OF MATTER DUE TO ATTRACTION BETWEEN MOLECULES) The pressure inside a portion of matter Proton launch vehicle engine parts engine primers **ROSAT** mission engine starters Russian Space Program DEF exhaust systems sea law due to the attraction between molecules. external combustion engines SOHO Mission GS pressure sovereignty fuel consumption internal pressure fuel injection Symphonie satellites RT adhesion U.S.S.R. space program fuel pumps cohesion United Nations fuel systems gas pressure gas turbines user requirements partial pressure pressure distribution hybrid propellant rocket engines Vega project ignition systems liquid propellant rocket engines World Meteorological Organization spreading temperature inversions International Field Year for Great Lakes lubrication systems Canada piston engines internal stress Great Lakes (North America) pistons USE residual stress United States retrorocket engines rocket engines internal waves International Geophysical Year solid propellant rocket engines DEF In fluid mechanics, wave motions of By international agreement, a period spark plugs stably stratified fluids in which the maximal during which greatly increased observation of superchargers vertical motions occur below the surface of the worldwide geophysical phenomena is undersustainer rocket engines fluids. taken through the cooperative effort of particithermodynamic cycles GS internal waves pating nations. July 1957 to December 1958 thermodynamic efficiency . planetary waves was the first such year; however, precedent was torpedo engines evanescent waves set by the International Polar Years of 1882 and Vernier engines surface waves 1932. Used for IGY (geophysical year). ∞ waves IGY (geophysical year) internal compression inlets intake systems RT geophysics International Cometary Explorer Vanguard satellites internal compression inlets USE International Sun Earth Explorer 3 world data centers air intakes compressing International Computers Limited International Geosphere-Biosphere engine inlets USE ICL computers inlet nozzles program programs ĞS supersonic inlets international cooperation International policies Geosphere-Biosphere internal conversion foreign policy RT ∞ conversion program . . international relations RT biogeochemistry nuclear reactions ... international cooperation biosphere . . outer space treaty internal energy Earth observations (from space) RT A-300 aircraft DEF A mathematically defined thermodygeophysics A-310 aircraft namic function of state, interpretable through man environment interactions A-320 aircraft statistical mechanics as a measure of the mosolar terrestrial interactions A-330 aircraft lecular activity of the system. A-340 aircraft RT chemical energy International Hydrological Decade A-380 aircraft DEF A ten-year program, 1965-74, patterned after the International Geophysical Year, ∞ energy Anik 1 free energy Anik 2 Gibbs-Helmholtz equations aimed at training hydrologists and technicians, Anik 3 kinetic energy and at the establishment of networks for mea-Anik satellites suring hydrologic data. The idea originated in ∞ level molecular energy levels Apollo Soyuz test project the United States, but the program was sponparticle energy Arabsat sored by UNESCO, and a large proportion of potential energy Arcomsat membership of the United Nations participated. Azur satellite thermal energy Used for IHD (hydrological decade) thermodynamics Cassini mission IHD (hydrological decade) Cluster Mission Canada internal flow Committee on Space Research foreign policy (added January 1995) Communications Technology Satellite hydrology GS fluid flow conventions international cooperation . internal flow cooperation international relations Cosmos 782 satellite precipitation (meteorology) . . cavity flow . . channel flow Cosmos 936 satellite river basins . . . open channel flow Cosmos 1129 satellite streams disarmament United States . . ducted flow ... Knudsen flow EISCAT radar system (Europe) water resources . . inlet flow Energiya launch vehicle watersheds .. nozzle flow ESA satellites . . pipe flow Couette flow European Airbus international law European Southern Observatory GS law (jurisprudence) European Union . international law fluidics . . air law hydrodynamics federations . . sea law pipes (tubes) French space program GLONASS . . space law internal friction Granat satellite conventions friction information transfer European Union GS legal liability . internal friction INMARSAT satellites

integrated global ocean station

International Hydrological Decade

systems

nations outer space treaty

peacetime

anelasticity

attenuation

cohesion

politics . sovereignty United Nations warfare

#### International Magnetospheric Explorer

IME satellite

artificial satellites GS

. scientific satellites

. . Explorer satellites ... International Magnetospheric

Explorer

Delta launch vehicle Earth magnetosphere

#### International Magnetospheric Study

DEF Joint US, ESA, Japanese, and Canadian effort (1976-1979) for observation and measurement of magnetospheric and ionospheric phenomena and involving spacecraft, aircraft, balloons, and rockets, as well as ground based equipment. Used for IMS.

**IMS** 

GS investigation

#### . International Magnetospheric Study

atmospheric physics Earth magnetosphere European space programs geomagnetism interplanetary magnetic fields

international practical temperature temperature scales

#### International Quiet Sun Year

DEF An international cooperative program during 1964-65 of studying solar-terrestrial phenomena during a quiet sun, i.e., sunspot minimum, period. It is related to the International Geophysical Year and to the International Active Sun Years. Used for IQSY (international year)

IQSY (international year) RT

solar activity solar cycles solar physics

### international relations

GS policies

. foreign policy

# international relations

. . . international cooperation . . . outer space treaty

Apollo Soyuz test project International Hydrological Decade International Space Year U.S.S.R. space program

International Satellite Cloud Climatology USE ISCCP Project

#### International Satellite Geodesy Experiment

**ISAGEX** RT celestial geodesy European space programs geodetic coordinates international cooperation satellite tracking U.S.S.R. space program

International Sats for Ionospheric Study USE ISIS satellites

International Solar Polar Mission USE Ulysses mission

### International Space Station

(added December 1994) ISS (space station)

artificial satellites . space stations

International Space Station stations

. space stations

# International Space Station

Alpha Magnetic Spectrometer Assured Crew Return Vehicle Columbus module Columbus space station Crew Equipment Translation Aid (ISS) **Destiny Laboratory Module** Integrated Truss Structure P1 Integrated Truss Structure S1 Integrated Truss Structure Z1 international cooperation large space structures manned orbital laboratories Mir space station Multi-Purpose Logistics Modules Service Module (ISS) space shuttles Space Station Freedom Space Station Mobile Servicing

#### International Space Year

(added April 1993)

ISÝ

RT ∞ aerospace sciences international relations NASA space programs space exploration space programs

System space station modules

spaceborne experiments

Unity connecting module

Zarya control module

#### International Sun Earth Explorer 1

DEF First joint NASA-ESA satellite launched to investigate sun-Earth relationships and solar phenomena.

GS artificial satellites

. scientific satellites

. . Explorer satellites

. . . International Sun Earth Explorers

.... International Sun Earth Explorer 1

International Sun Earth Explorer 2
DEF Second joint NASA-ESA satellite launched to investigate sun-Earth relationships and solar phenomena.

GS artificial satellites

. scientific satellites

. . Explorer satellites

... International Sun Earth Explorers

.... International Sun Earth Explorer 2

### International Sun Earth Explorer 3

DEF The last in a series of three spacecraft developed by NASA and ESA for the study of the magnetosphere. ISEE C was launched into a heliocentric orbit and will make observations in the solar wind up stream of the Earth. Used for International Cometary Explorer

International Cometary Explorer

GS artificial satellites

. scientific satellites

. . Explorer satellites

... International Sun Earth Explorers

. . . International Sun Earth

Explorer 3

# International Sun Earth Explorers

ISEE

artificial satellites

. scientific satellites

. . Explorer satellites

# International Sun Earth

**Explorers** 

. . . . International Sun Earth Explorer

.... International Sun Earth Explorer

. . . . International Sun Earth Explorer

# International System of Units

The metric system of units based on the meter, kilogram, second, ampere, kelvin degree, and candela. Other SI units are hertz, radian, newton, joule, watt, coulomb, volt, ohm, farad, weber and tesla. Used for metric system and SI.

UF metric system

GS units of measurement

International System of Units

RT conversion tables ∞ measurement measuring instruments metrication metrology ∞ systems

#### international trade

UF exports foreign trade economics revenue

International Ultraviolet Explorer

USE IUE

#### Internet resources

(added January 1997)

SN (USE FOR SOURCES OF INFORMATION, DATA, OR COMPUTER SOFTWARE ACCESSIBLE VIA THE INTERNET; FOR DESIGN OR FUNCTIONAL ASPECTS OF COMPUTER INTERNETWORKS USE "INTERNETS")

DEE Sources of information, data, or com-"INTERNETS")
Sources of information, data, or com-

DEF puter software accessible via the Internet.

GS resources

#### . Internet resources

. websites

electronic bulletin boards electronic commerce electronic mail information dissemination information resources management information systems news media services

#### internets

(added January 1994)

(REFERS TO ANY INTERLINKED SYSTEM OF SEPARATE COMPUTER NETWORKS)

networks

. communication networks

. . internets

ARPA computer network

... World Wide Web

. computer networks

.. internets

ARPA computer network

.. World Wide Web client server systems

computer security

electronic bulletin boards

electronic mail

Internet resources Java (programming language)

web services

websites

# internuclear properties

RT molecular interactions ∞ molecular physics

# interoperability

(added July 2001)
DEF The ability of different systems, devices, or software to exchange information or otherwise operate effectively together.

commonality

data transfer (computers) information transfer protocol (computers) standards systems compatibility systems integration

# interorbital trajectories GS trajectories

interorbital trajectories interplanetary trajectories

round trip trajectories spacecraft trajectories

#### interpersonal relations USF

human relations

# interphones

communication equipment GS

. interphones

RT earphones

### interplanetary communication

microphones telecommunication

#### interplanetary communication

telecommunication

space communication

interplanetary communication circumlunar communication

extraterrestrial communication facsimile communication lunar communication Mars Reconnaissance Orbiter optical communication radio communication satellite communication

spacecraft communication

#### interplanetary dust

extraterrestrial matter

- . interstellar matter
- . . cosmic dust
- . . . interplanetary dust
- ... meteoroid dust clouds

. . . . . zodiacal dust media

- . interplanetary medium
- ... interplanetary dust
- ... meteoroid dust clouds

. . . . zodiacal dust

particles . dust

- . . cosmic dust
- ... interplanetary dust

.... meteoroid dust clouds

. . . zodiacal dust

RT meteoroids micrometeoroids

Interplanetary Explorer

USE Explorer 18 satellite

# interplanetary flight

planetary space flight space flight UF GS

. interplanetary flight asteroid missions

astrodynamics Earth-Venus trajectories

flyby missions

interstellar spacecraft

long duration space flight

magnetic sails

manned Mars missions

manned space flight

Mariner Jupiter-Saturn flyby

Mariner Jupiter-Uranus flyby Mariner Mark 2 Spacecraft

Mars exploration

matter-antimatter propulsion negative matter propulsion

orbits

outer planets explorers

planetary landing return to Earth space flight

round trip trajectories space exploration

space navigation

spacecraft guidance

TOPS (spacecraft)

#### interplanetary gas

extraterrestrial matter

- . cosmic gases
- . interplanetary gas gases

. rarefied gases

- . . cosmic gases . . interplanetary gas
- media
- . interplanetary medium
- . interplanetary gas

cosmic plasma interstellar gas RT neutral gases solar wind

# interplanetary magnetic fields

magnetic fields

. interplanetary magnetic fields

Chapman-Ferraro problem

flux transfer events

International Magnetospheric Study

magnetic clouds

magnetic field reconnection

solar magnetic field

Wind/GGS spacecraft

#### interplanetary medium

media

### . interplanetary medium

. . interplanetary dust

. . . meteoroid dust clouds

.... zodiacal dust

. interplanetary gas

Advanced Composition Explorer

interplanetary shock waves

magnetic clouds

mass distribution

meteoroids

plasma clouds

solar wind

Interplanetary Monitoring Platform

USE

# interplanetary navigation

GS navigation

. space navigation

interplanetary navigation

astronavigation

celestial navigation

celestial reference systems

radar navigation

radio navigation

interplanetary propulsion

interplanetary spacecraft

rocket engines

### interplanetary shock waves

(added April 2007)

Shock waves in the solar corona and interplanetary space caused by the interaction of fast coronal mass ejections, the solar wind, and the interplanetary magnetic field. Interplanetary shock waves occur when the speed of the coronal mass ejection is faster than the local fast magnetosonic speed.

interplanetary shocks

elastic waves GS

. shock waves

. . interplanetary shock waves coronal mass ejection interplanetary medium

shock wave interaction shock wave propagation

solar activity

solar activity effects

solar corona

solar flares

solar radio bursts

solar wind

space weather interplanetary shocks

(added April 2007) USE interplanetary shock waves

#### interplanetary space

translunar space

GS environments

. aerospace environments

. . deep space

. . interplanetary space

. extraterrestrial environments

. . deep space

. . interplanetary space cislunar space

heliosphere interstellar space polar cusps

### interplanetary spacecraft

interplanetary propulsion planetary spacecraft GS

# interplanetary spacecraft . Explorer 18 satellite

Jupiter probes

. . Galileo probe

. . Galileo spacecraft

. Mariner space probes

. . Mariner 1 space probe

. . Mariner 2 space probe

. . Mariner 3 space probe

. . Mariner 4 space probe . . Mariner 5 space probe

. . Mariner 6 space probe

. . Mariner 7 space probe

. . Mariner 8 space probe

. . Mariner 9 space probe

. . Mariner 10 space probe

Mariner 11 space probe

Mariner R 2 space probe . Mariner spacecraft

. . Mariner C spacecraft

. Mariner Venus 67 spacecraft

. Mars probes

. . Advanced Reconn Electric Spacecraft

. . Mariner 3 space probe

Mariner 3 space probe
 Mariner 4 space probe
 Mariner 6 space probe
 Mariner 7 space probe

Mariner 8 space probe Mariner 9 space probe

Mars 1 spacecraft

Mars 2 spacecraft Mars 3 spacecraft

Mars 4 Spacecraft

Mars 5 spacecraft Mars 6 spacecraft Mars 7 spacecraft

Mars Observer

. . Mars Pathfinder

Viking 1975 entry vehicle . . Viking spacecraft

... Viking 1 spacecraft

Viking lander 1

Viking orbiter 1 Viking 2 spacecraft

. . . . Viking lander 2

Viking orbiter 2

. . . Viking lander spacecraft Viking lander 1

Viking lander 2 Viking orbiter spacecraft

. . . . Viking orbiter 1

Viking orbiter 2

Viking orbiter 1975 . . Mars Climate Orbiter

. . Mars Express

Mars Global Surveyor . . Mars Polar Lander

Mars Reconnaissance Orbiter

Nozomi Mars Orbiter
 Phobos spacecraft
 Phoenix Mars Lander

Zond 2 space probe

. Pioneer space probes . . Pioneer 1 space probe

Pioneer 2 space probe

Pioneer 3 space probe Pioneer 4 space probe

Pioneer 5 space probe Pioneer 6 space probe

Pioneer 7 space probe

Pioneer 8 space probe

Pioneer 9 space probe Pioneer 10 space probe

Pioneer 11 space probe . . Pioneer Venus 2 entry probes

Pioneer Venus 2 night probe Pioneer Venus 2 sounder probe

. Pioneer Venus spacecraft

... Pioneer Venus 1 spacecraft . . Pioneer Venus 2 spacecraft

. . . Pioneer Venus 2 entry probes . . . . Pioneer Venus 2 night probe

. Pioneer Venus 2 sounder probe

Pioneer Venus 2 transporter bus TOPS (spacecraft)

. Venus probes

Magellan spacecraft (NASA)

. . Mariner 1 space probe . . Mariner 2 space probe

. . Mariner 5 space probe . . Mariner 10 space probe

... Pioneer Venus 2 spacecraft

|          | Pioneer Venus 2 entry probes     |                  | interplanetary transfer orbits           |          | data storage                                  |
|----------|----------------------------------|------------------|--|----------|---|
|          | Pioneer Venus 2 night probe      |                  | aeroassist                               |          | information retrieval                         |
|          | Pioneer Venus 2 sounder probe    |                  | aerobraking                              |          | libraries                                     |
|          | Pioneer Venus 2 transporter bus  |                  | aerocapture                              |          | military technology                           |
|          | Venera satellites                |                  | aeromaneuvering                          |          | research                                      |
|          | Venera 2 satellite               |                  | low Earth orbits                         |          | Harrist Control                               |
|          | Venera 3 satellite               |                  | orbital mechanics                        |          | ellar chemistry                               |
|          | Venera 4 satellite               |                  | swingby technique                        | DEF      |   |
|          | Venera 5 satellite               |                  | 45                                       |          | r space due to radiation, collision, and      |
|          | Venera 6 satellite               | interpola        |  | other fo |   |
|          | Venera 7 satellite               |                  | analysis (mathematics)                   | RT       | association reactions                         |
|          | Venera 8 satellite               |                  | numerical analysis                       |          | chemical reactions                            |
|          | Venera 9 satellite               |                  | . interpolation                          | c        | chemistry                                     |
|          | Venera 10 satellite              |                  | commutation                              |          | cosmochemistry                                |
|          | Venera 11 satellite              |                  | computation                              |          | diffuse interstellar bands                    |
|          | Venera 12 satellite              |                  | extrapolation                            |          | formyl ions                                   |
|          | Zond 1 space probe               |                  | finite difference theory                 |          | interstellar matter                           |
|          | Zond 3 space probe               |                  | statistical analysis                     |          | isotope ratios                                |
|          | Zond 4 space probe               | internale        | toro                                     |          | laboratory astrophysics                       |
|          | Zond 5 space probe               | interpola        |  |          | molecular clouds                              |
|          | Zond 6 space probe               | USE              | repeaters                                |          | molecular interactions                        |
|          | Zond 7 space probe               | interpret        | ation                                    |          | reaction kinetics                             |
|          | Zond 8 space probe               | ∞ interpre<br>SN | (USE OF A MORE SPECIFIC TERM IS          |          | Submillimeter Wave Astronomy                  |
|          | . Voyager 1 spacecraft           |                  | RECOMMENDEDCONSULT THE TERMS             |          | Satellite                                     |
|          | . Voyager 2 spacecraft           |                  | LISTED BELOW)                            | interete | ller communication                            |
|          | . Zond space probes              |                  | decoding                                 |          | ellar communication                           |
|          | Zond 1 space probe               |                  | intelligibility                          | GS       | communicating                                 |
|          | Zond 2 space probe               |                  | perception                               | рт       | . interstellar communication                  |
|          | Zond 3 space probe               |                  | photointerpretation                      | RT       | extraterrestrial intelligence                 |
|          | Zond 4 space probe               |                  | reading                                  |          | radio communication                           |
|          | Zond 5 space probe               |                  | recognition                              |          | space communication                           |
|          | Zond 6 space probe               |                  | syntax                                   | interet  | ellar extinction                              |
|          | Zond 7 space probe               |                  | translating                              |          |   |
|          | Zond 8 space probe               |                  |  | UF<br>GS | interstellar reddening                        |
|          | . MESSENGER (spacecraft)         |                  | cessor communication                     | GS       | extinction                                    |
| RT       | artificial satellites            | DEF              | Communication between two or more        | DT       | . interstellar extinction                     |
|          | Deep Space 1 Mission             | processo         | rs in a computer system.                 | RT       | astrophysics                                  |
|          | interstellar spacecraft          | RT               | computer networks                        |          | diffuse interstellar bands                    |
|          | landing modules                  |                  | computer systems design                  |          | evolution (development)                       |
|          | maneuverable spacecraft          |                  | Connection Machine                       |          | interstellar gas                              |
|          | manned Mars missions             |                  | Dining Philosophers Problem              |          | radiation absorption                          |
|          | manned spacecraft                |                  | distributed memory                       |          | stellar evolution                             |
|          | matter-antimatter propulsion     |                  | free-space optical interconnects         |          | stellar radiation                             |
|          | rendezvous spacecraft            |                  | hypercube multiprocessors                | interet  | ller acc                                      |
|          | reusable spacecraft              |                  | local area networks                      | GS       | ellar gas<br>extraterrestrial matter          |
|          | space capsules                   |                  | MIMD (computers)                         | 63       |   |
|          | space exploration                |                  | multiprocessing (computers)              |          | . cosmic gases                                |
|          | space probes                     |                  | parallel processing (computers)          |          | interstellar gas<br>. interstellar matter     |
| ٥        | spacecraft .                     |                  | SIMD (computers)                         |          | . interstellar gas                            |
|          | unmanned spacecraft              |                  | transmission rate (communications)       |          | <u> </u>                                      |
|          | Voyager 1977 mission             |                  | transputers                              |          | gases   |
|          |                                  |                  | VSAT (network)                           |          | . rarefied gases cosmic gases                 |
| interpla | netary trajectories              |                  |  |          |   |
| GS       | trajectories                     | interrelat       |  | RT       | interstellar gas cooling flows (astrophysics) |
|          | spacecraft trajectories          | USE              | relationships                            | IXI      | galactic halos                                |
|          | interplanetary trajectories      |                  |  |          |   |
|          | Earth-Mars trajectories          | interroga        |  |          | H I regions<br>H II regions                   |
|          | Earth-Mercury trajectories       |                  | data processing                          |          | heliosphere                                   |
|          | Earth-Venus trajectories         |                  | IFF systems (identification)             |          | interplanetary gas                            |
| RT       | Earth-Moon trajectories          |                  | secondary radar                          |          | interplanetary gas                            |
|          | Goddard Trajectory Determination |                  | transmitter receivers                    |          | magnetic clouds                               |
|          | System                           |                  | transponders                             |          | methylidyne                                   |
|          | interorbital trajectories        | • . •            | •  |          | molecular clouds                              |
|          | orbital launching                | interrupt        |  |          | neutral gases                                 |
|          | orbital mechanics                |                  | electric relays                          |          | Ophiuchi clouds                               |
|          | parking orbits                   |                  | packet switching                         |          | Orion nebula                                  |
|          | planetary orbits                 |                  | sequencing                               |          | spin temperature                              |
|          | rendezvous trajectories          |                  | switches                                 |          | star formation                                |
|          | round trip trajectories          |                  | switching                                |          | stellar mass accretion                        |
|          | solar orbits                     | interces         | iana                                     |          | stellar winds                                 |
|          | space navigation                 | intersect<br>SN  |  |          | otoliai willao                                |
|          | spacecraft guidance              |                  | (EXCLUDES BOOLEAN LOGICAL<br>PRODUCTS)   | interste | ellar magnetic fields                         |
|          | transfer orbits                  |                  | In Boolean algebra, the operation in     | UF       | galactic magnetic fields                      |
|          | Viking 1 spacecraft              |                  | ncepts are described by stating that     | GS       | magnetic fields                               |
|          | Viking 2 spacecraft              |                  | e all the characteristics of the classes |          | . interstellar magnetic fields                |
|          | Viking lander 1                  |                  | Intersection is expressed as AND.        | RT       | magnetic clouds                               |
|          | Viking lander 2                  | RT               | crossings                                |          | stellar magnetic fields                       |
|          | Viking lander spacecraft         |                  | crossovers                               |          | -   |
|          | Viking orbiter 1                 |                  | highways                                 | interste | ellar masers                                  |
|          | Viking orbiter 2                 |                  | junctions                                | GS       | stimulated emission devices                   |
|          | Viking orbiter spacecraft        |                  | ramps (structures)                       |          | . masers                                      |
|          |                                  |                  | roads                                    |          | interstellar masers                           |
| interpla | netary transfer orbits           |                  | streets                                  | RT       | coherent electromagnetic radiation            |
| GS       | orbits                           |                  | transportation networks                  |          | gas masers                                    |
|          | . elliptical orbits              |                  |  |          | lasers  |
|          | . transfer orbits                |                  | rice data exchange program               |          | microwave amplifiers                          |
|          | interplanetary transfer orbits   |                  | IDEP (data exchange)                     |          | molecular clouds                              |
|          | . spacecraft orbits              | RT ∞             | data                                     |          | radiation sources                             |

data retrieval

. . transfer orbits

stimulated emission

water masers

negative matter propulsion

#### interstellar matter

GS extraterrestrial matter

. interstellar matter

. . cosmic dust

. . . interplanetary dust

. . . meteoroid dust clouds

. zodiacal dust

. . dark matter

. interstellar gas

Alpha Magnetic Spectrometer

celestial bodies

diffuse interstellar bands

formyl ions gravitational instability

H I regions H II regions

infrared cirrus (astronomy)

interstellar chemistry

laboratory astrophysics

mass distribution

metallicity

methylidyne molecular clouds

nebulae

Ophiuchi clouds

Orion nebula

polycyclic aromatic hydrocarbons

Population I stars reflection nebulae

spin temperature

star formation

Stardust Mission

stellar envelopes

stellar mass accretion

Submillimeter Wave Astronomy

Satellite

interstellar microwave spectra

interstellar radiation microwave spectra

interstellar radiation
UF interstellar microwave spectra

extraterrestrial radiation GS

interstellar radiation

corpuscular radiation

cosmic noise

cosmic rays

electromagnetic radiation

galactic radiation gamma ray bursts

∞ radiation

radiative transfer

stellar radiation

interstellar reddening

USE interstellar extinction

#### interstellar space

GS environments

. aerospace environments

. . deep space

. interstellar space

. extraterrestrial environments

. . deep space

interstellar space

RT interplanetary space

#### interstellar spacecraft

interplanetary flight interplanetary spacecraft interstellar travel space exploration

# interstellar travel

space flight GS

. interstellar travel

astronavigation

celestial reference systems extraterrestrial intelligence interstellar spacecraft long duration space flight

magnetic sails manned space flight

matter-antimatter propulsion

interstices

cavities RT

cracks grain boundaries

percolation

. permeability pinholes

porosity

porous materials

voids

interstitials

additives

antisite defects

crystal defects

crystal structure

grain boundaries

Laves phases

intersymbolic interference

cochannel interference

data transmission ∞ interference

signal distortion

transmission efficiency

intertropical convergent zones

GS regions

. tropical regions

. intertropical convergent zones

atmospheric circulation

fronts (meteorology)
GARP Atlantic Tropical Experiment

tropical meteorology

zonal flow (meteorology)

intervals

RT alternations

consecutive events

spacing

step functions time

topology

intervehicle spacecrew transfer

spacecrew transfer

intervertebral disks

GS disks (shapes)

intervertebral disks

musculoskeletal system

vertebrae

intestines

GS anatomy

. digestive system

. . gastrointestinal system

... intestines

. . rectum abdomen

appendix (anatomy)

intoxication

RT ∞ poisoning

toxicity and safety hazard

toxicology

intracloud discharges (added August 1999)

electric current

. electric discharges

. . lightning

... intracloud discharges

intracranial cavity

GS anatomy

. head (anatomy)

. . skull

. . . cranium

. . . . intracranial cavity . musculoskeletal system

. . bones

. . . skull . . . . cranium

intracranial pressure

GS pressure

intracranial pressure

. . . . intracranial cavity

brain

intramolecular structures

RT molecular structure ∞ structures

intraocular pressure

tonometry

GS pressure

intraocular pressure

glaucoma

intraorbit transfer vehicles

DEF Small scooter type tugs that would move men and materials within an orbit.

Columbus space station large space structures space platforms

space shuttles vehicles

intraseasonal oscillations

(added September 2000)

USE intraseasonal variations

intraseasonal variations

(added September 2000)

intraseasonal oscillations

GS variations

. periodic variations

. . intraseasonal variations . . Madden-Julian Oscillation

RT annual variations atmospheric circulation

atmospheric models

climatology tropical meteorology

intravascular system RT blood circulation

∞ systems

intravehicular activity RT ∞ activity

astronaut locomotion

astronaut maneuvering equipment

astronaut performance extravehicular activity

human performance

manned space flight pilot performance

spacecraft environments

weightlessness

intravenous procedures bioavailability

catheterization in vivo methods and tests

medical services

RT

introversion RT ∞ depression

detachment human behavior

∞ inhibition psychology

Intruder aircraft USE A-6 aircraft

intrusion

contamination RT extruding leakage

seepage intrusion detection (computers) (added January 2003)

DEF Manual or software-based detection of unauthorized entries or attempted break-ins into a computer system or network. The detection analysis is typically conducted using logs or other internal system information.

security GS

. computer security

.. intrusion detection (computers)

| RT         | access control                            | robotics                               |                                       |            | investments                               |
|------------|---|--|---------------------------------------|------------|---|
| 111        | computer networks                         | 10001103                               |                                       |            | IIIVCouncillo                             |
|            | computer viruses                          | inverse scattering                     |                                       | investm    | ent casting                               |
|            | firewalls (computers)                     |  | analyzing some classic                | UF         | lost wax process                          |
|            | ,   | wave scattering.                       | , g                                   | GS         | forming techniques                        |
| Invader    | aircraft                                  | GS scattering                          |                                       |            | . casting                                 |
| USE        | B-26 aircraft                             | . inverse so                           | cattering                             |            | investment casting                        |
|            |   | RT forward sca                         |                                       | RT         | centrifugal casting                       |
| invalidity | у   | resonance                              | •                                     | ~          | investment                                |
| USE        | errors                                    |  |                                       |            |   |
|            |   | inversions                             |                                       | investm    |   |
| invariar   |   | GS inversions                          |                                       | RT         | depreciation                              |
| GS         | invariance                                | . magnetic f                           | ield inversions                       |            | economic impact                           |
|            | . gauge invariance                        | . population                           |                                       |            | economics                                 |
| RT ∝       | o constant                                | • •                                    | re inversions                         |            | finance                                   |
|            | Lorentz transformations                   |  |                                       | ~          | investment                                |
|            |   | invertebrates                          |                                       |            | . Ala                                     |
|            | nt imbeddings                             | GS animals                             |                                       | inviscid   |   |
| GS         | geometry                                  | . invertebra                           | ites                                  | UF         | nonviscous flow                           |
|            | topology                                  | arthropod                              | ls .                                  | GS         | fluid flow                                |
|            | imbeddings (mathematics)                  | artemia                                |                                       |            | . inviscid flow                           |
| БТ         | invariant imbeddings                      | crabs                                  |                                       | RT         | stagnation flow                           |
| RT         | anisotropic fluids                        | insects                                |                                       | KI         | aerodynamics                              |
|            | calculus of variations                    | bees                                   |                                       |            | Crocco method                             |
|            | conformal mapping                         | bollwo                                 | rms                                   | _          | Crocco-Lee theory                         |
|            | coordinate transformations                | chiron                                 | omus flies                            | ~          | flow characteristics                      |
|            | differential geometry                     | cockro                                 | aches                                 |            | gas flow                                  |
| 00         | imbeddings                                | Coleop                                 | otera                                 |            | •   |
|            | isotropic turbulence                      | beetl                                  |                                       |            | laminar flow potential flow               |
| inventio   | one                                       | tribo                                  |                                       |            | Prandtl number                            |
| RT         |   | boll v                                 | veevils                               |            | Reynolds number                           |
| IXI        | intellectual property patent applications | cricket                                | S                                     |            | stagnation temperature                    |
|            | patent applications                       | Droso <sub>l</sub>                     | ohila                                 |            | turbulent flow                            |
|            | patents                                   | fireflies                              |                                       |            | viscous flow                              |
|            | product development                       | grassh                                 |                                       |            | VISCOUS HOW                               |
|            | product development                       | locusts                                | 3                                     | invisibili | tv  |
| invento    | ries                                      | moths                                  |                                       |            | visibility                                |
| GS         |   | silkw                                  | orms                                  |            | •   |
| 00         | . crop inventories                        | spiders                                |                                       | involunt   | ariness                                   |
|            | . timber inventory                        | mollusks                               |                                       | USE        | involuntary actions                       |
| RT         | Large Area Crop Inventory                 | cephalo                                |                                       |            |   |
|            | Experiment                                | octopu                                 | ises                                  |            | tary actions                              |
|            | reserves                                  | snails                                 |                                       | UF         | involuntariness                           |
| ~          | ∘ storage                                 | Rotifera                               |                                       | RT         | autonomic nervous system                  |
|            | •   | sea urchi                              | ns                                    |            | sneezing                                  |
| invento    | ry controls                               | worms                                  |                                       |            | spasms                                    |
|            | management                                | flatworn                               | 1S                                    |            | twitching                                 |
|            | . industrial management                   | RT bacteria                            |                                       | involunt   | ary munala                                |
|            | inventory management                      | hemocytes<br>larvae                    |                                       |            | ary muscle<br>ed December 2004)           |
|            | inventory controls                        |  | omo                                   |            | smooth muscle                             |
|            | . logistics management                    | microorgani<br>poikilotherm            |                                       | USL        | Sillouti illuscie                         |
|            | inventory management                      | poikilotriem                           | ia                                    | lo         |   |
|            | inventory controls                        | inverted convertors                    | (DC to AC)                            | DEF        | A satellite of Jupiter orbiting at a mear |
| RT ∝       | o control                                 | inverted converters  RT alternating of |                                       |            | of 421,800 kilometers. Also called Ju-    |
|            | distributing                              |  | Julient                               | piter I.   |   |
|            | mathematical models                       | ∞ converters                           | verters (AC to DC)                    | GS         | celestial bodies                          |
|            | optimal control                           | direct currer                          |                                       |            | . natural satellites                      |
|            | reserves                                  | electric curr                          |                                       |            | Jupiter satellites                        |
|            | risk                                      | Cicotrio curi                          | SIII                                  |            | Galilean satellites                       |
| ~          | storage                                   | inverters                              |                                       |            | lo  |
|            | time lag                                  |  | AC TO DC INVERTERS)                   | RT         | Callisto                                  |
|            |   | GS inverters                           | AO TO DO INVERTERS)                   |            | Charon                                    |
|            | ry management                             | . static inve                          | rters                                 |            | Ganymede                                  |
| GS         | management                                | RT attenuators                         |                                       |            | Jupiter (planet)                          |
|            | . industrial management                   | oscillators                            |                                       |            | ,   |
|            | . inventory management                    |  |                                       | iodates    |   |
|            | inventory controls                        | investigation                          |                                       | GS         | halogen compounds                         |
|            | logistics management                      | UF studies                             |                                       |            | . iodine compounds                        |
|            | inventory management                      | GS investigation                       | on                                    |            | iodates                                   |
| ОТ         | inventory controls                        | . accident ir                          |                                       |            | lithium iodates                           |
| RT         | downtime                                  |  | ccident investigation                 |            |   |
|            | logistics                                 |  | al Magnetospheric Study               | iodides    |   |
|            | procurement management                    | RT examination                         |                                       | GS         | halogen compounds                         |
|            | resources                                 | experimenta                            | ation                                 |            | . iodine compounds                        |
|            | retirement for cause services             | exploration                            |                                       |            | iodides                                   |
|            | spare parts                               | geophysical                            | fluid flow cells                      |            | cesium iodides                            |
|            | stockpiling                               | OSS-1 payl                             |                                       |            | gallamine triethiodide                    |
| _          | stockpilling<br>storage                   | programs                               |                                       |            | hafnium iodides                           |
| ~          | - storage                                 | research                               |                                       |            | niobium iodides                           |
| inverse    | kinematics                                |  | d development                         |            | potassium iodides silver iodides          |
|            | ed December 1990)                         | sampling                               |                                       |            | sodium iodides                            |
| GS         | kinematics                                | university p                           | ogram                                 |            | zirconium iodides                         |
| -00        | . inverse kinematics                      |  |                                       |            | ZIIGOIIIGIII IOGIGES                      |
| RT         | dynamic control                           |  |                                       | iodimet    | rv  |
|            | feedback control                          | SN (USE OF A M                         | IORE SPECIFIC TERM IS                 | GS         | chemical tests                            |
|            | manipulators                              | RECOMMENI<br>LISTED BELO               | DEDCONSULT THE TERMS                  | 00         | . chemical analysis                       |
|            | robot control                             | RT commerce                            | /vvj                                  |            | iodimetry                                 |
|            | robot dynamics                            | investment                             | casting                               | RT         | quantitative analysis                     |
|            |   | iiivootiiioiit                         | · · · · · · · · · · · · · · · · · · · | 131        | 1   |

 $\infty \ reduction$ ... chemical oxygen-iodine lasers RT solions titration iodoacetic acid ion cyclotron radiation GS acids iodine GS electromagnetic radiation . carboxylic acids GS chemical elements . nonthermal radiation . . fatty acids . halogens . . cyclotron radiation ... acetic acid . . iodine . . ion cyclotron radiation . iodoacetic acid . . . iodine isotopes cyclotron resonance halogen compounds . . . . iodine 125 ionic waves . iodine compounds . . . . iodine 131 magnetic pumping . iodoacetic acid . . . . iodine 132 plasma radiation organic compounds plasma waves . carboxylic acids iodine 125 ∞ radiation . . fatty acids GS chemical elements ... acetic acid . halogens ion density (concentration) .... iodoacetic acid . . iodine DEF In atmospheric electricity, the number . . . iodine isotopes ion accelerators of ions per unit volume of a given sample of air; . . . . iodine 125 more particularly, the number of ions of a given type (positive small ion, negative small ion, positive large ion, or negative large ion) per unit GS particle accelerators . nuclides ion accelerators . . isotopes RT ∞ accelerators ... iodine isotopes synchrotrons volume of air. . . . . iodine 125 GS density (number/volume) . . . radioactive isotopes ion acoustic waves . particle density (concentration)
. ion density (concentration) . . . . iodine 125 GS elastic waves . sound waves . . . ionospheric ion density iodine 131 . ion acoustic waves ... magnetospheric ion density GS chemical elements plasma oscillations .... magnetospheric proton density . halogens plasma waves ... proton density (concentration) . . iodine wave propagation ... magnetospheric proton density . . . iodine isotopes atmospheric density . iodine 131 ion atom interactions atom concentration . nuclides particle interactions cosmic rays . . isotopes ion atom interactions Earth ionosphere ... iodine isotopes atomic interactions electron density (concentration) . . . . iodine 131 charge exchange Gerdien condensers . . . radioactive isotopes elementary particle interactions . . . . iodine 131 ∞ interactions ionograms plasma density ion beams iodine 132 positive ions DEF Directed fluxes of charged atoms or GS chemical elements Saha equations molecules. . halogens space density beams (radiation) . . iodine . particle beams ... iodine isotopes ion distribution . ion beams .... iodine 132 ion currents GS distribution (property) . nuclides ion distribution . ion beams . . isotopes charge distribution RT atomic beams ... iodine isotopes current distribution beam injection ... iodine 132 electrohydrodynamics beam neutralization . . . radioactive isotopes inertial fusion (reactor) ionic mobility . . . . iodine 132 spatial distribution ion optics vertical distribution molecular beams iodine compounds GS halogen compounds ion chambers iodine compounds ion emission USE ionization chambers . . iodates GS emission . particle emission ... lithium iodates ion channels (biology) . . iodides . ion emission (added August 2002) ... cesium iodides ionization DEF Glycoprotein components of biomembranes that control the passage of hydrophilic . . . gallamine triethiodide thermionic emission ... hafnium iodides thermionics solutes such as inorganic ions. . . . niobium iodides potassium channels (biology) ... potassium iodides sodium channels (biology) ion engines ... silver iodides Reaction engines in which ions, accelbioelectric potential ... sodium iodides erated in an electrostatic field, are used as bioelectricity . zirconium iodides cell membranes (biology) propellants. Used for ionic propellants and ther-. . iodoacetic acid electrophysiology mionic reactors. Also called electrostatic en-RT ∞ chemical compounds neurophysiology gines. Used for ionic propellants and thermionic halocarbons reactors. ion charge UF ionic propellants iodine isotopes GS electric charge thermionic reactors GS chemical elements ion charge engines . halogens charge exchange . rocket engines . . iodine charged particles . . electric rocket engines ... iodine isotopes ionization . . . electrostatic engines . . . . iodine 125 valence .... ion engines . . . . iodine 131 . . . . . cesium engines .... iodine 132 . . . . . Hall thrusters ion concentration . nuclides . . . . . mercury ion engines RT acidity . . isotopes . . . . RIT engines ∞ bases ... iodine isotopes RT beam switching Earth ionosphere . . . . iodine 125 pH factor electrothermal engines . . . . iodine 131 titration ion optics . . . . iodine 132 ionizers nuclear rocket engines ion currents

ionic conductivity

. Pedersen currents

ion currents

ion beams

UF

GS

plasma engines restartable rocket engines

space station propulsion

sustainer rocket engines

iodine lasers

. lasers

.. iodine lasers

stimulated emission devices

 $\infty \, thrustors$ 

#### ion exchange membrane electrolytes

GS conductors

- . electrolytes
  - . . ion exchange membrane electrolytes

membranes

. ion exchange membrane electrolytes

fuel cells separators

#### ion exchange resins

resins

ion exchange resins

RT plastics zeolites

#### ion exchanging

exchanging GS

ion exchanging

beds (process engineering) charge transfer

demineralizing glass electrodes hydrometallurgy isotope separation kaolinite metathesis

 separation softening water treatment

#### ion extraction

GS extraction

. ion extraction isotope separation

∞ separation solvent extraction

ion gages

USE ionization gages

#### ion impact

GS impact

. ion impact electron impact

point impact recoil ions toroids

Townsend avalanche Townsend discharge

# ion implantation

GS implantation

ion implantation

RT avalanche diodes carrier mobility

diodes

doping (materials) field effect transistors

integrated circuits

ITO (semiconductors)

junction transistors

metal ions

metal oxide semiconductors microelectronics

**MODFETS** modulation doping

MOM (semiconductors)

photodiodes

semiconductor devices

transistors

### ion injection

GS injection

. ion injection

carrier injection ionic mobility plasma accelerators plasma generators plasma jets

#### ion irradiation

irradiation GS

- . ion irradiation
- . . deuteron irradiation
- . . proton irradiation

RT auroral irradiation electron irradiation ionic collisions neutron irradiation

# ion microscopes

microscopes GS

ion microscopes electron microscopes electron microscopy

scanning electron microscopy transmission electron microscopy

#### ion mobility spectroscopy

(added September 1995) plasma chromatography

spectroscopy GS

. ion mobility spectroscopy

RT airport security explosives detection mass spectrometers

#### ion motion

RT ionic waves  $\infty$  motion

Penning discharge plasma composition plasma diffusion

#### ion optics

(added June 1998) atom optics beam waveguides beamforming electron optics ion beams ion engines

ion propulsion mass spectrometers ∞ optics

ion oscillation

USE plasma oscillations

# ion plating

plating GS

ion plating

RT ions

metal coatings metal ions sputtering thin films

vacuum deposition

#### ion probes

measuring instruments GS

ion probes

ionosondes

radio frequency impedance probes

### ion production rates

ion production rates

rates (per time)

. ion production rates

avalanches charge exchange recoil ions

thermionic converters

# ion propulsion

GS propulsion

. electric propulsion

. . electrostatic propulsion

ion propulsion

. low thrust propulsion

. . electrostatic propulsion ... ion propulsion

. spacecraft propulsion

. . electrostatic propulsion

ion propulsion

Deep Space 1 Mission

duoplasmatrons electromagnetic propulsion high temperature propellants

ion optics magnetic sails

nuclear electric propulsion

plasma propulsion

#### ion pumps

GS pumps

vacuum pumps . . ion pumps

vacuum apparatus . vacuum pumps

.. ion pumps

RT getters

#### ion recombination

GS chemical reactions . ion recombination

recombination reactions . ion recombination

RT atomic recombination

deionization

electron recombination electron-ion recombination recombination coefficient

# ion scattering

GS scattering

. ion scattering

electron scattering ionic collisions ionic diffusion proton scattering recoil ions

#### ion selective electrodes

GS electrodes

. ion selective electrodes

RT chemical analysis

### ion sheaths

sheaths GS

. ion sheaths plasma clouds plasma probes plasma sheaths

# ion sources

GS ion sources

. plasmatrons

. duoplasmatrons

electron sources ionization ionizing radiation linear accelerators

particle accelerators plasma generators radiation sources

∞ sources sputtering

ion spectrometers USE mass spectrometers

ion storage lons within an electromagnetic trap and cooled to sub-Kelvin temperatures with lasers. Potential uses are for frequency stan-

dards. RT frequency standards storage

trapping

ion stripping DEF A procedure following the focusing of ion beams in the target chamber of a reactor to be used for particle beam pellet fusion.

RT heavy ions

particle beams particle density (concentration)

particles ∞ separation ∞ stripping

# ion temperature

GS temperature

. ion temperature auroral temperature ionospheric temperature plasma temperature space temperature specific heat

#### ion traps (instrumentation)

GS measuring instruments

. ion traps (instrumentation) traps ion traps (instrumentation) RT radiation counters vapor traps ion-gas interactions USE gas-ion interactions ionic collisions

heavy ion collisions

GS collisions

ionic collisions

atomic collisions ion irradiation ion scattering particle collisions

ionic conductivity

recoil ions

USE ion currents

#### ionic crystals

crystals GS

ionic crystals chemical bonds crystal lattices excitons lattice energy

polarons

#### ionic diffusion

GS diffusion

. particle diffusion

. ionic diffusion

ambipolar diffusion diffusion waves electron diffusion ion scattering plasma diffusion self diffusion (solid state)

In gaseous electric conduction, the average velocity with which a given ion drifts through a specified gas under the influence of an electric field of unit strength. Mobilities are commonly expressed in units of centimeters per second per volt per centimeter.

mobility GS

. ionic mobility

transport properties ionic mobility

RT ambipolar diffusion

anions

atomic mobilities

cations

electrohydrodynamics

electrolysis electrolytic cells

electromigration ion distribution

ion injection ions

motion

NDM semiconductor devices

negative ions positive ions

ionic propellants USÉ

ion engines

# ionic reactions

RT charge transfer molecular interactions

### ionic waves

GS elastic waves . ionic waves

collisionless plasmas electrostatic waves ion cyclotron radiation

ion motion

ionospheric conductivity ionospheric propagation

plasma waves

∞ waves

#### ionization DEF The process by which electrons are

lost from or transferred to neutral molecules or atoms to form positively or negatively charged particles. Used for electron ionization.

electron ionization

#### GS ionization

. autoionization

. gas ionization

. . atmospheric ionization

. . . auroral ionization

. . flame ionization

. ion production rates

. nonequilibrium ionization

. photoionization

surface ionization atomic collisions

atomic excitations

coronas

disintegration dissociation

electric arcs

electric corona

electric discharges

electric sparks

electron attachment

excitation

ion charge ion density (concentration)

ion emission

ion sources

ionospheric composition magnetohydrodynamics molecular excitation oxygen recombination Schwarzschild metric

single event upsets stellar coronas thermal dissociation

# ionization chambers

Apparatus used to study the production of small ions in the atmosphere by cosmic rays and radioactive bombardment of air molecules.

ion chambers

#### GS ionization chambers

. bubble chambers

cloud chambers

. Geiger counters

proportional counters spark chambers

RT ∞ chambers

counters

dosimeters

electron counters

ionizers

neutron counters

radiation counters

radiation measuring instruments threshold detectors (dosimeters)

#### ionization coefficients

GS coefficients

. ionization coefficients

ionization counters

USE radiation counters

# ionization cross sections

RT absorption cross sections

∞ cross sections nonadiabatic theory

scattering cross sections

# ionization frequencies

frequencies

ionization frequencies

# ionization gages

DEF Vacuum gages with a means of ionizing the gas molecules and a means of correlating the number and type of ions produced with the pressure of the gas. Various types of ionization gages are distinguished according to the method of producing the ionization. Used for ion gages.

ŬÆ ion gages

measuring instruments GS

. pressure gages . . vacuum gages

... ionization gages

... alphatrons

. . . . Bayard-Alpert ionization gages

Penning gages

. . . Philips ionization gages

vacuum apparatus

#### . vacuum gages .. ionization gages

alphatrons

. . . Bayard-Alpert ionization gages

... Penning gages

. . Philips ionization gages

hot cathodes

Knudsen gages Mcleod gages

orbitrons

Pirani gages

pressure measurement

#### ionization potentials

DEF The energy required to ionize an atom or molecule. The energy is usually given in terms of electron volts.

GS potential energy
. ionization potentials

activation

electric potential nuclear binding energy

potential

Saha equations work functions

(LIMITED TO PARTIALLY IONIZED GASES; SEE PLASMAS (PHYSICS) FOR COMPLETELY IONIZED MATTER)

gases

. ionized gases . . Lorentz gas

particles

. charged particles

. . ionized gases . . Lorentz gas

RT cosmic gases

electron gas Fokker-Planck equation

gas ionization

gas temperature

H II regions

high temperature gases neutral gases

plasmas (physics) recombination coefficient

ionized plasmas

USE plasmas (physics)

# ionizers

DEF Filaments, grids, or porous bodies in ion engines or other devices which strip electrons from the outer shells of neutral atoms to form positively charged ions.

RT ∞ filaments gas ionization

∞ grids

ion engines ionization chambers surface ionization

tube grids

ionizing radiation DEF Any electromagnetic or particulate radiation capable of producing ions, directly or indirectly, in its passage through matter.

GS ionizing radiation

. alpha particles

. beta particles . cosmic rays

. . cosmic ray showers

. . galactic cosmic rays

. . gamma ray bursts

. . primary cosmic rays ... solar cosmic rays

.. secondary cosmic rays

. gamma ray beams . gamma rays

. . gamma ray bursts . x rays

solar x-ravs

RT absorption spectra

| avalanches   | RECOMMENDED-CONSULT THE TERMS                             | . particle density (concentration)   |
|--|---|--|
| beams (radiation)  | LISTED BELOW) RT Earth ionosphere                         | electron density (concentration)   |
| coherent electromagnetic radiation   | magnetosphere-ionosphere coupling                         | ionospheric electron density   |
| corpuscular radiation electromagnetic radiation  | planetary ionospheres                                     | RT Ariel 4 satellite<br>magnetospheric electron density                                  |
| electron beams   |   | magnetospheric electron density  |
| elementary particles   | ionospheric absorption                                    | ionospheric F-scatter propagation  |
| emission   | USE electromagnetic absorption<br>ionospheric propagation | GS scattering  |
| extreme ultraviolet radiation  | ionospheric propagation                                   | . wave scattering  |
| fluence  | ionospheric blackout                                      | electromagnetic scattering   |
| gamma ray absorption   | USE blackout (propagation)                                | ionospheric F-scatter  |
| gamma ray spectra  |   | <b>propagation</b><br>transmission   |
| ion sources  | ionospheric composition                                   | . electromagnetic wave transmission  |
| irradiation  | GS composition (property)                                 | radio transmission   |
| linear energy transfer (LET) monochromatic radiation   | . atmospheric composition                                 | ionospheric propagation  |
| nuclear radiation  | ionospheric composition  RT atom concentration            | ionospheric F-scatter  |
| particle trajectories  | chemical composition                                      | propagation  |
| ∞ radiation  | gas composition   | scatter propagation  |
| radiation belts  | ionization  | ionospheric F-scatter  |
| radiation counters   | particle density (concentration)                          | propagation  |
| radiation damage   | plasma composition  | . signal transmission  |
| radiation hazards  | satellite atmospheres                                     | radio transmission   |
| radioactive materials  |   | ionospheric propagation  |
| radioactivity  | ionospheric conductivity                                  | ionospheric F-scatter  |
| radiochemistry   | GS electrical properties                                  | propagation  |
| relativistic electron beams  | . electrical resistivity                                  | . wave propagation ionospheric propagation   |
| solar radiation  | ionospheric conductivity                                  | ionospheric F-scatter  |
| sterilization  | transport properties                                      | propagation  |
| system generated electromagnetic   | . atmospheric conductivity ionospheric conductivity       | scatter propagation  |
| pulses   | . electrical resistivity                                  | ionospheric F-scatter  |
| ionograms  | ionospheric conductivity                                  | propagation  |
| RT ion density (concentration)   | RT ∞ conductivity   | b b B  |
| ionosondes   | electrojets   | ionospheric heating  |
| riometers  | ionic waves   | GS heating   |
| ionopause  | plasma conductivity                                       | . ionospheric heating  |
| SN (EXCLUDES PLASMAPAUSE)  | •   | RT atmospheric radiation   |
| DEF The upper boundary of the ionosphere   | ionospheric cross modulation                              | plasma heating   |
| of certain planets (excluding the Earth) and   | GS electromagnetic interference                           | tanaantanta tan danaka   |
| comets where electrons decline sharply. The  | . crosstalk   | ionospheric ion density  |
| Earth's ionopause is referred to as the plasma-  | ionospheric cross modulation                              | GS density (number/volume)   |
| pause. (Excludes plasmapause.)   | . radio frequency interference                            | <ul><li>particle density (concentration)</li><li>. ion density (concentration)</li></ul> |
| RT cometary atmospheres  | ionospheric cross modulation<br>modulation                | ion density (concentration)  |
| planetary atmospheres plasmapause  | ionospheric cross modulation                              | RT magnetospheric ion density  |
| space plasmas  | RT Luxembourg effect                                      | positive ions  |
| Venus atmosphere   | Text Educational Circuit                                  | positive ionic   |
| ·  | ionospheric currents                                      | ionospheric noise  |
| ionosondes   | GS electric current                                       | GS atmospheric radiation   |
| DEF An HF radar that sweeps or steps   | . ionospheric currents                                    | . ionospheric noise  |
| through all or part of the freequency range from 0. 3 to 30 MHz (medium and hing frequency   | Birkeland currents  | whistlers  |
| band). Transmitting pulse modulated or continu-  | electrojets   | electromagnetic interference   |
| ous frequency variation signals with a vertical  | auroral electrojets                                       | radio frequency interference   |
| looking antenna, it measures the delay time of   | equatorial electrojet                                     | . electromagnetic noise  |
| echos from the ionosphere as a function of   | Pedersen currents   | ionospheric noise  |
| frequency. Modern digital pulse ionosondes   | electricity   | whistlers  RT background noise   |
| measure not only the amplitude, but also phase   | . atmospheric electricity                                 | background radiation   |
| or Doppler frequency, polarization, and arrival  | ionospheric currents                                      | ionospheric disturbances   |
| angle of the echoes.   | Birkeland currents<br>electrojets                         | riometers  |
| GS measuring instruments   | auroral electrojets                                       | sky waves  |
| . meteorological instruments   | equatorial electrojet                                     | ony marco  |
| radiosondes  | Pedersen currents   | ionospheric propagation  |
| ionosondes   | RT field aligned currents                                 | UF ionospheric absorption  |
| . sondes   | plasma currents   | ionospheric reflection   |
| radiosondes  | traveling ionospheric disturbances                        | GS transmission  |
| ionosondes   |   | . electromagnetic wave transmission  |
| radio equipment<br>. radio transmitters  | ionospheric disturbances                                  | radio transmission   |
| radiosondes  | GS ionospheric disturbances                               | ionospheric propagation  |
| ionosondes   | . ionospheric storms                                      | ionospheric F-scatter  |
| transmitters   | sudden ionospheric disturbances                           | propagation . signal transmission  |
| . radio transmitters   | . traveling ionospheric disturbances                      | . radio transmission   |
| radiosondes  | RT Birkeland currents                                     | ionospheric propagation  |
| ionosondes   | blackout (propagation)<br>∞ disturbances                  | ionospheric F-scatter  |
| RT ion probes  | ionospheric noise   | propagation  |
| ionograms  | magnetic variations                                       | . wave propagation   |
| ionospheric sounding   | space weather   | . ionospheric propagation  |
| riometers  | -1  | ionospheric F-scatter propagatio   |
| satellite sounding   | ionospheric drift   | RT antipodes   |
| sounding rockets   | RT ∞ drift  | Earth ionosphere   |
| Ionosphere Explorer A  | drift rate  | Earth-ionosphere waveguide   |
| USE Explorer 20 satellite  | electrojets   | EISCAT radar system (Europe)   |
| ionosphere-magnetosphere coupling  | magnetic rigidity   | ionic waves  |
| USE magnetosphere-ionosphere   | polarization (charge separation)                          | lossy media  |
| coupling   | radiation belts   | Luxembourg effect  |
| ionospheres  | ionospheric electron density                              | magnetoionics<br>ORBIS   |
| NAME OF THE PROPERTY OF THE PR | ISTISSOCIOTO CICCULOTI UCITSILV                           | CINDIO   |

ionospheric electron density GS density (number/volume)

 $\infty$   $\,$  ionospheres  $\,$  SN  $\,$  (USE OF A MORE SPECIFIC TERM IS

ORBIS CAL satellite

### ionospheric sounding

polar radio blackout riometers scatter propagation signal measurement traveling ionospheric disturbances

ionospheric reflection

USE ionospheric propagation

#### ionospheric sounding

sounding

ionospheric sounding

RT Alouette 1 satellite Alouette 2 satellite Alouette project Ariel 4 satellite atmospheric sounding ionosondes

ORBIS CAL satellite rocket sounding satellite sounding

ionospheric storms

DEF Disturbances of the ionosphere, resulting in anomalous variations in its characteristics and effects on radio communication.

ionospheric disturbances . ionospheric storms

. sudden ionospheric disturbances storms

. ionospheric storms

. sudden ionospheric disturbances

RT ∞ disturbances Earth ionosphere ionospherics noise storms solar storms spread F

traveling ionospheric disturbances

#### ionospheric temperature

temperature

. atmospheric temperature

ionospheric temperature

auroral temperature electron energy ion temperature

# ionospheric tilts

Ionospheric conditions where the variability of the number of the electrons as a function of altitude is present. Ionospheric tilts are sometimes created by traveling ionospheric disturbances (TID's) and ionospheric tilts deflect radio waves in unexpected directions adversely affecting radio reception.

RT traveling ionospheric disturbances

ionospherics

GS electromagnetic interference radio frequency interference

. . electromagnetic noise

. . . atmospherics ionospherics

. . . . . dawn chorus . . . hiss ionospheric storms

radio auroras

Charged atoms or molecularly bound groups of atoms; sometimes also free electrons or other charged subatomic particles. In atmospheric electricity, any of several types of electrically charged submicroscopic particles normally found in the atmosphere. Atmospheric ions are of two principal types, small ions and large ions, although a class of intermediate ions has occasionally been reported. In chemistry, atoms or specific groupings of atoms which have gained or lost one or more electrons, as the chloride ion or ammonium ion. Such ions exist in aqueous solutions and in certain crystal structures.

multicharged ions

GS ions

. cesium ions

. deuterons

. heavy ions

. helium ions

hydrogen ions

light ions

. metal ions

. . ferric ions . manganese ions

. molecular ions

. . formyl ions

. . hydronium ions

. vanadyl radical

. negative ions . anions

. nitrogen ions

. oxygen ions

. positive ions

. . cations

. . . formyl ions

. . . vanádyl radical

. . hydronium ions

. recoil ions

. trivalent ions alpha particles atoms

chemical elements

corpuscular radiation

electrolytes

free radicals

hydroxyl radicals ion implantation

ion plating ionic mobility

molecules

monatomic molecules nuclei (nuclear physics)

particles

plasmas (physics) polyatomic molecules

protons

. valence

Iowa

RT

GS nations

United States

. Iowa

Cedar Rapids (IA) Missouri River (US)

IP (impact prediction)

USE computerized simulation

**IPAD** 

(INTEGRATED PROGRAM FOR AEROSPACE VEHICLE DESIGN) Integ Program for Aerospace Veh SN

UF

Design

computer techniques GS

. computer aided design

. IPAD

spacecraft design

İPAD

RT ∞ design

IPG (NASA Information Power Grid)

(added December 2003)

USE grid computing (computer networks)

IQSY (international year)

USE International Quiet Sun Year

IR lasers

USE infrared lasers

Iran

nations GS Iran

RT Asia

Iraq

nations GS

Iraq

RT Asia

IRAS

Infrared Astronomy Satellite USF

### IRAS-Araki-Alcock comet

DEF The closest known approaching comet to the Earth since 1770, it was the fourth comet discovered in 1983 and is named after its first three discoverers: The infrared astronomy satellite, Genichi Araki (a Japanese school teacher) and George Alcock (a veteran English amateur observer).

GS celestial bodies

. comets

. IRAS-Araki-Alcock comet

Infrared Astronomy Satellite solar system

USE infrared lasers

IRBM (missiles)

USE intermediate range ballistic missiles

Ireland

GS landforms

. islands

.. Ireland

nations . Ireland

iridescence

electromagnetic properties

. optical properties . . color

. . iridescence

opalescence

iridium

GS chemical elements

. iridium

. . iridium isotopes metals

. refractory metals . . iridium

. . iridium isotopes

. transition metals

. . iridium

. iridium isotopes

refractory materials

. refractory metals

. . iridium . . . iridium isotopes

iridium alloys

(added July 1991) ĠS allovs

iridium alloys

platinum alloys

iridium compounds

(added July 1991)

RT ∞ chemical compounds

∞ Group 8 compounds ∞ metal compounds

iridium isotopes GS chemical elements

. iridium

. . iridium isotopes

. nuclides . . isotopes

... iridium isotopes

metals . refractory metals

. . iridium

.. iridium isotopes . transition metals

. . iridium

. iridium isotopes refractory materials

. refractory metals . . iridium ... iridium isotopes

# Iridium network

(added December 1998)

A 66-satellite wireless personal telecommunications network designed to provide worldwide telephone, paging, facsimile and data services to handheld or mobile equipment.

Iridium satellites

GS networks

. communication networks

. . Iridium network

. satellite networks

. . satellite constellations

|               | Iridium network                 |           | . iron                                 |           | . pyrrhotite                        |
|---------------|---------------------------------|-----------|--|-----------|-------------------------------------|
| RT            | communication satellites        |           | iron isotopes                          |           | troilite                            |
|               | facsimile communication         |           | iron 59                                |           | . iron aluminides                   |
|               | mobile communication systems    |           | . nuclides                             |           | . schreibersite                     |
|               | satellite communication         |           | isotopes                               |           | . siderites                         |
|               | telephony                       |           | iron isotopes                          | RT ∘      |                                     |
|               | wireless communication          |           | iron 59 <sup>'</sup>                   |           | Group 8 compounds                   |
|               |                                 |           | radioactive isotopes                   | •         | ∘ metal compounds                   |
| Iridium s     | satellites                      |           | iron 59                                |           | ·                                   |
| (adde         | ed December 1998)               |           | metals                                 | iron cya  | anides                              |
| USE           | communication satellites        |           | . transition metals                    | GS        | cyanides                            |
|               | Iridium network                 |           | iron                                   |           | . iron cyanides                     |
|               |                                 |           | iron isotopes                          |           | iron compounds                      |
| IRIS sat      |                                 |           | iron 59                                |           | . iron cyanides                     |
| GS            | artificial satellites           |           |  |           |                                     |
| БТ            | IRIS satellites                 | iron allo |  | iron iso  | •                                   |
| RT            | European space programs         |           | ferroalloys                            | GS        | chemical elements                   |
|               | satellite observation           |           | alloys                                 |           | . iron                              |
|               | solar activity                  |           | . iron alloys                          |           | iron isotopes                       |
|               | solar cycles                    |           | steels                                 |           | iron 57                             |
|               | solar energy<br>solar flares    |           | bainitic steel carbon steels           |           | iron 58                             |
|               | solar radiation                 |           | low carbon steels                      |           | iron 59                             |
|               | solar sensors                   |           | chromium steels                        |           | . nuclides                          |
|               | 30idi 36ii30i3                  |           | Croloy                                 |           | isotopes                            |
| irises (r     | mechanical apertures)           |           | high strength steels                   |           | iron isotopes<br>iron 57            |
|               | openings                        |           | maraging steels                        |           | iron 58                             |
|               | . apertures                     |           | nickel steels                          |           | iron 59                             |
|               | . irises (mechanical apertures) |           | stainless steels                       |           | metals                              |
| RT            | camera shutters                 |           | austenitic stainless steels            |           | . transition metals                 |
|               | waveguide windows               |           | ferritic stainless steels              |           | iron                                |
|               | waveguides                      |           | martensitic stainless steels           |           | iron isotopes                       |
|               |                                 | RT        | austenite                              |           | iron 57                             |
| IRM           |                                 |           | bainite                                |           | iron 58                             |
| USE           | information resources           |           | bearing alloys                         |           | iron 59                             |
|               | management                      |           | cementite                              | RT        | ferrous metals                      |
|               |                                 |           | ferrites                               |           |                                     |
| iron          |                                 |           | Hastelloy (trademark)                  | iron me   | eteorites                           |
| GS            | chemical elements               |           | Inconel (trademark)                    | UF        | siderite meteorites                 |
|               | . iron                          |           | iron aluminides                        | GS        | celestial bodies                    |
|               | iron isotopes                   |           | kamacite                               |           | . meteorites                        |
|               | iron 57                         |           | martensite                             |           | iron meteorites                     |
|               | iron 58                         |           | nimonic alloys                         |           | Aroos meteorite                     |
|               | iron 59                         |           | pearlite                               |           | Lazarev meteorite                   |
|               | metals                          |           | Permalloys (trademark)                 |           | Odessa meteorite                    |
|               | . transition metals             |           | silicon alloys                         |           | Sikhote-Alin meteorite              |
|               | iron                            |           | Zircaloys (trademark)                  | RT        | achondrites                         |
|               | iron isotopes<br>iron 57        | iron aluı | ninidos                                |           | Harleton meteorite                  |
|               | iron 58                         |           |  |           | kamacite                            |
|               | iron 59                         |           | d December 2000)<br>aluminum compounds |           | meteoritic composition              |
| RT            | ferric ions                     |           | . aluminides                           |           | meteoritic microstructures          |
|               | ferrous metals                  |           | iron aluminides                        |           | Okhansk meteorite                   |
|               | hydrogen embrittlement          |           | iron compounds                         |           | schreibersite                       |
|               | low carbon steels               |           | . iron aluminides                      |           | stony meteorites                    |
|               | siderophile elements            |           | aluminum alloys                        |           | stony-iron meteorites<br>troilite   |
|               | •                               |           | intermetallics                         |           | Widmanstatten structure             |
| iron 57       |                                 |           | iron alloys                            |           | Widinaristation structure           |
| GS            | chemical elements               |           | •                                      | iron ore  | es                                  |
|               | . iron                          | iron chlo | orides                                 |           | minerals                            |
|               | iron isotopes                   | GS        | halogen compounds                      |           | . iron ores                         |
|               | iron 57                         |           | . chlorine compounds                   |           | hematite                            |
|               | nuclides                        |           | chlorides                              |           |                                     |
|               | isotopes                        |           | iron chlorides                         | iron ox   | ides                                |
|               | iron isotopes                   |           | . halides                              | GS        | chalcogenides                       |
|               | iron 57                         |           | iron chlorides                         |           | . oxides                            |
|               | metals . transition metals      |           |  |           | metal oxides                        |
|               | iron                            |           | metal halides                          |           | iron oxides                         |
|               | iron isotopes                   |           | iron chlorides<br>iron compounds       |           | hematite                            |
|               | iron 57                         |           | . iron chlorides                       |           | ilmenite                            |
|               |                                 |           | . II off childrides                    |           | magnetite                           |
| iron 58       |                                 | iron con  | npounds                                |           | iron compounds                      |
| DEF           | A radioactive isotope of iron.  |           | iron compounds                         |           | . iron oxides                       |
| GS            | chemical elements               |           | . cohenite                             |           | hematite ilmenite                   |
|               | . iron                          |           | . cordierite                           |           | magnetite                           |
|               | iron isotopes                   |           | . fayalite                             |           | magnetite                           |
|               | iron 58                         |           | . ferrates                             | Iroguois  | s helicopter                        |
|               | . nuclides                      |           | barium ferrates                        |           | UH-1 helicopter                     |
|               | isotopes                        |           | . ferrites                             | 302       |                                     |
|               | iron isotopes                   |           | . ferrocenes                           | irradian  | nce                                 |
|               | iron 58                         |           | alkylferrocene                         | SN        | (LIMITED TO DETECTION RATE PER      |
|               | metals                          |           | . iron chlorides                       |           | UNIT AREA OF RADIATION)             |
|               | . transition metals             |           | . iron cyanides                        | DEF       | The detection rate per unit area of |
|               | iron                            |           | . iron oxides                          | radiation |                                     |
|               | iron isotopes                   |           | . hematite                             | GS        | rates (per time)                    |
|               | iron 58                         |           | ilmenite                               |           | . flux density                      |
| iron FO       |                                 |           | magnetite                              |           | radiant flux density                |
| iron 59<br>GS | chemical elements               |           | . limonite                             |           | irradiance<br>illuminance           |
| GS            | CHEITHOAL CICHICINS             |           | . pyrites                              |           |                                     |
|               |                                 |           |  |           | 487                                 |

| solar constant   | nonuniformity   | thermodynamic equilibrium  |
|--|---|--|
| RT electron flux density   | regularity  | ·  |
| luminance  |   | Ising model  |
| luminous intensity   | irreversible processes  RT nonequilibrium thermodynamics  | RT antiferromagnetism cluster variation method   |
| neutron flux density photosynthetically active radiation   | Onsager relationship  | crystal lattices   |
| proton flux density  | reaction kinetics   | ferromagnetism   |
| radiance   | thermodynamics  | particle spin  |
| Solar Backscatter UV Spectrometer  | thermoviscoelasticity   | phase transformations  |
| solar flux density   | variational principles  | statistical mechanics  |
| irradiation  | irrigation  | ISIS satellites  |
| GS irradiation   | RT agriculture  | SN (INTERNATIONAL SATELLITES FOR   |
| . auroral irradiation  | alfalfa   | IONOSPHERIC STUDY) UF International Sats for Ionospheric   |
| . electron irradiation   | barley  | Study  |
| . ion irradiation<br>deuteron irradiation  | canals<br>citrus trees  | GS artificial satellites   |
| proton irradiation   | corn  | . ISIS satellites  |
| . neutron irradiation  | crop vigor  | Alouette 2 satellite<br>ISIS-A   |
| . x ray irradiation  | ditches   | ISIS-B   |
| RT activation  | drainage  | ISIS-X   |
| beams (radiation)<br>∞ bombardment   | drainage patterns<br>farm crops   | RT Alouette satellites   |
| dosimeters   | farmlands   | 1010 A   |
| electromagnetic absorption   | oats  | ISIS-A GS artificial satellites  |
| electron probes  | orchards  | . ISIS satellites  |
| emission   | ponds   | . ISIS-A   |
| excitation<br>exposure   | seepage<br>sugar beets  | RT Alouette project  |
| flux density   | sugar cane  | ISIS-B   |
| ionizing radiation   | troughs   | GS artificial satellites   |
| laser induced fluorescence   | vegetation growth   | . ISIS satellites  |
| nuclear capture  | vineyards   | ISIS-B   |
| nuclear fusion   | water consumption   | IDIO V   |
| nuclear radiation<br>preserving  | irritation  | ISIS-X GS artificial satellites  |
| ∞ radiation  | GS irritation   | . ISIS satellites  |
| radiation dosage   | . toxicity and safety hazard  | . ISIS-X   |
| radiation effects  | RT ∞ reaction   | RT Alouette B satellite  |
| radiation measurement  | irrotational flow   | lakra airaraft   |
| radiation tolerance<br>radiobiology  | USE potential flow  | lskra aircraft<br>USE <b>TS-11 aircraft</b>  |
| radiography  |   | ool 10 11 anoran   |
| targets  | IRS (Indian spacecraft)   | island arcs  |
| innetion alter   | USE Indian spacecraft   | GS landforms   |
| irrationality RT disorientation  | ISAGEX  | . <b>island arcs</b><br>RT Aleutian Islands (US)   |
| dithers  | USE International Satellite Geodesy   | ∞ arcs   |
| mental performance   | Experiment  | barriers (landforms)   |
| prejudices   | ICCOR Product   | islands  |
| psychoses  | ISCCP Project<br>(added August 1991)  | keys (islands)   |
| schizophrenia  | UF International Satellite Cloud  | lagoons<br>reefs   |
| irregular galaxies   | Climatology   | 100.0  |
| DEF Galaxies with amorphous structure  | GS programs   | islands  |
| and with relatively low mass (10 to the 8th to 10  | . projects<br>ISCCP Project   | DEF Tracts of land smaller than a continent,   |
| to the 10th solar masses). Fewer than 10 percent of all galaxies are classified as irregular.  | RT climatology  | surrounded by the water of oceans, seas, lakes, or streams. The term has been loosely applied  |
| GS celestial bodies  | cloud cover   | to land-tied and submerged areas, and to land  |
| . galaxies   | clouds (meteorology)  | cut off on two or more sides by water, such as   |
| . irregular galaxies   | GOES satellites   | peninsulas.  |
| RT BL Lacertae objects   | METEOSAT satellite  | GS landforms<br>. <b>islands</b>   |
| galactic radiation<br>galactic rotation  | remote sensing<br>satellite observation   | . Aleutian Islands (US)  |
| galactic rotation  | odomo obostvanom  | Assateague Island (MD-VA)  |
| Gum nebula   | ischemia  | atolls   |
| Hubble constant  | RT anemias  | Azores   |
| Hubble diagram   | blood circulation   | Bahrain  |
| nebulae<br>Orion nebula  | an anation  |  |
|  | congestion  | Bermuda<br>Canary Islands  |
|  | congestion<br>vasoconstriction  | Canary Islands   |
| Population I stars<br>quasars  |   |  |
| quasars<br>radio sources (astronomy)   | vasoconstriction  | Canary Islands<br>Cyprus<br>Greenland<br>Hawaii  |
| quasars<br>radio sources (astronomy)<br>red shift  | vasoconstriction  ISEE USE International Sun Earth Explorers  | Canary Islands<br>Cyprus<br>Greenland<br>Hawaii<br>Iceland   |
| quasars<br>radio sources (astronomy)<br>red shift<br>star clusters   | vasoconstriction  ISEE USE International Sun Earth Explorers isentrope  | Canary Islands<br>Cyprus<br>Greenland<br>Hawaii<br>Iceland<br>Indonesia  |
| quasars<br>radio sources (astronomy)<br>red shift  | vasoconstriction  ISEE USE International Sun Earth Explorers  | Canary Islands<br>Cyprus<br>Greenland<br>Hawaii<br>Iceland   |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars  | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions   | Canary Islands Cyprus Greenland Hawaii Iceland Indonesia Ireland keys (islands) Long Island (NY)   |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies  | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes  | Canary Islands Cyprus Greenland Hawaii Iceland Indonesia Ireland keys (islands) Long Island (NY) Madagascar  |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars  | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram  | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands  |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars variable stars   | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes  | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands . Malta  |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars  | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram  | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands  |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars . variable stars variable stars irregular variable stars R Coronae Borealis stars RT carbon stars                          | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram Poisson equation  isentropic processes GS isentropic processes   | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands . Mauritius . Merritt Island (FL) . Newfoundland   |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars . variable stars . variable stars irregular variable stars   | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram Poisson equation  isentropic processes GS isentropic processes . nonisentropicity                                | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands . Mauritius . Merritt Island (FL) . Newfoundland . nunataks                                  |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars variable stars irregular variable stars R Coronae Borealis stars RT carbon stars semiregular variable stars                | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram Poisson equation  isentropic processes GS isentropic processes . nonisentropicity RT Bernoulli theorem           | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands . Mauritius . Merritt Island (FL) . Newfoundland . nunataks . Pacific islands                |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars variable stars irregular variable stars R Coronae Borealis stars RT carbon stars semiregular variable stars irregularities | Vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram Poisson equation  isentropic processes GS isentropic processes . nonisentropicity RT Bernoulli theorem isentrope | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands . Malta . Mauritius . Merritt Island (FL) . Newfoundland . nunataks . Pacific islands . Guam |
| quasars radio sources (astronomy) red shift star clusters stars  irregular variable stars GS celestial bodies . stars variable stars irregular variable stars R Coronae Borealis stars RT carbon stars semiregular variable stars irregularities | vasoconstriction  ISEE USE International Sun Earth Explorers  isentrope DEF A line of equal or constant pressure, with respect to either space or time. RT adiabatic conditions isentropic processes Mollier diagram Poisson equation  isentropic processes GS isentropic processes . nonisentropicity RT Bernoulli theorem           | . Canary Islands . Cyprus . Greenland . Hawaii . Iceland . Indonesia . Ireland . keys (islands) . Long Island (NY) . Madagascar . Maldive Islands . Mauritius . Merritt Island (FL) . Newfoundland . nunataks . Pacific islands                |

|               | New Guinea (island)  |         | diisocyanates   |          | Lagrange multipliers   |
|---------------|--|---------|---|----------|--|
|               | New Zealand  |         | fulminates  |          | matrices (mathematics)   |
|               | Philippines<br>Samoa   | isoala  | ctronic sequence  | c        | ∞ problems   |
|               | Samoa<br>Prince Edward Island                                | RT      | •   |          | topology   |
|               | Seychelles   | IXI     | spectra   | iconho   | too  |
|               | Sicily   |         | spectroscopy  | isopho   | ∞ illumination   |
|               | Tasmania   |         | -p  | IXI S    | ~ Illumination   |
|               | Wallops Island   | isoene  | rgetic processes  | isopleth | ns.  |
|               | West Indies  | RT      | adiabatic conditions  |          | nomographs   |
|               | Antigua and Barbuda  |         | isentropic processes  |          | 3 4  |
|               | Bahamas  |         | thermodynamic equilibrium   | isopror  | yl alcohol   |
|               | Barbados   | isolati | on.   |          | hydroxyl compounds   |
|               | Cuba<br>Dominica   | GS      | isolation   |          | . alcohols   |
|               | Grenada  | 00      | . social isolation  |          | . isopropyl alcohol  |
|               | Guadeloupe   | RT      | confinement   |          | isopropyl compounds  |
|               | Haiti  |         | confining   | RT       | . isopropyl alcohol isomers  |
|               | Jamaica  |         | deprivation   | KI       | isomers  |
|               | Lesser Antilles  |         | disposal  | isonror  | oyl compounds  |
|               | Martinique   |         | exclusion   |          | isopropyl compounds  |
|               | Puerto Rico  |         | gnotobiotics<br>insulation  |          | . isopropyl alcohol  |
|               | Trinidad and Tobago  |         | isolators   | RT «     | ∞ chemical compounds   |
| RT            | Virgin Islands archipelagoes                                 |         | ∞ separation  |          |  |
| 111           | Cape Verde   |         | spacing   | isoprop  | oyl nitrate  |
|               | coral reefs  |         | , ,   | GS       | alkyl compounds  |
|               | island arcs  | isolato |   |          | . isopropyl nitrate  |
|               | lagoons  | GS      | isolators   |          | esters   |
|               | Outer Banks (NC)   | БТ      | . vibration isolators   |          | . nitrate esters isopropyl nitrate   |
|               | reefs  | RT      | attenuators insulation  |          | nitrogen compounds   |
|               | seamounts  |         | isolation   |          | . nitrate esters   |
| ISMIT (       | resource utilization)  |         | noise reduction   |          | isopropyl nitrate  |
| •             | ed August 2001)  |         | shock absorbers   |          | ,  |
|               | in situ resource utilization                                 |         | spacers   | isopyc   | nic processes  |
|               |  |         | suppressors   | UF       | isosteric processes  |
|               |  |         | vibration   | RT       | density (mass/volume)  |
| SN            | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |         | d   |          | isentropic processes   |
|               | LISTED BELOW)  | DEF     | rization  |          | isobars (pressure)   |
| RT            | baroclinity  |         | Process for converting hydrocarbon or rganic compound to an isomer. |          | isochoric processes  |
|               | barotropism  | GS      |   | isostas  | W  |
|               | isobars (pressure)<br>nuclear isobars                        |         | . ortho para conversion   |          | A supposed equality existing in vertical                                       |
|               | polytropic processes   | RT      | ∞ conversion  |          | s of the Earth, whereby the weight of an                                       |
|               | polytropic processes   |         | refining  | column   | from the surface of the Earth to   |
| isobars       | (pressure)   |         | _   |          | it depth is approximately the same a   |
|               | Lines of equal or constant pressure,                         | isome   | Nuclides having the same mass num-                                  |          | any other column of equal area, the  |
|               | ally, such lines on a weather map.                           |         | and atomic number Z, but existing for                               |          | ium being maintained by plastic flow   |
| RT            | atmospheric pressure   |         | rable times in different quantum states                             |          | e part of the Earth to another.<br>∞ equilibrium                               |
|               | geostrophic wind gradients                                   |         | fferent energies and radioactive proper-                            | KIS      | geomorphology  |
|               | sobars   |         | olecules having the same atomic compo-                              |          | geophysics   |
| ·             | isochoric processes  |         | and molecular weight, but differing in                              |          | glaciology   |
|               | isopycnic processes  | 0       | trical configuration.   |          | gravitation  |
|               | isothermal processes   | GS      | isomers   |          | hydrostatics   |
|               | meteorological charts  | RT      | . enantiomers   |          | orography  |
|               | pressure   | KI      | atoms<br>congeners  |          | seismology   |
|               | pressure distribution  |         | isopropyl alcohol   |          | subsidence   |
|               | pressure gradients   |         | nuclear chemistry   |          |  |
| isobutai      | ne   |         | phenanthrene  |          | ic pressure<br>pressure  |
|               | ed March 1996)   |         | stereochemistry   | 63       | . isostatic pressure   |
|               | butanes  |         | tautomers   | RT       | atmospheric pressure   |
|               |  |         |   |          | hot isostatic pressing   |
| isobutyl      |  | UF      | r <b>phism</b><br>morphotropism                                     |          | hydrostatic pressure   |
| USE           | butenes  | GS      |   |          | static pressure  |
| isachai       | ic processes   | 00      | . isomorphism   |          |  |
| RT            | •  | RT      | •   |          | c processes  |
|               | isopycnic processes  |         | crystal structure   | USE      | isopycnic processes  |
|               | thermodynamic equilibrium                                    |         | duality theorem   |          | All the state of   |
|               | volume   |         | enantiomers   |          | soid structures  |
|               |  |         | homomorphisms   |          | Filamentary structures in which the<br>ts are uniformly stressed throughout fo |
| isochro<br>RT | color  | isonar  | ametric finite elements   |          | ign loading conditions.  |
| IXI           | dichroism  |         | The basis for the calculation of physi-                             |          | composite wrapping   |
|               | diffraction  |         | operties of structural shapes including                             |          | filament winding   |
|               | interferometry   |         | analyses.   |          | pressure vessels   |
|               | refraction   | RT      | conformal mapping   |          | prestressing   |
|               | speckle interferometry                                       |         | coordinate transformations  |          | shells (structural forms)  |
|               |  |         | ∞ elements  |          | spiral wrapping  |
| isocyar       |  |         | finite element method   | c        | ∞ structures<br>tensegrity structures  |
| GS            | esters   |         | fracture mechanics  |          | tensegrity structures  |
|               | . isocyanates diisocyanates                                  |         | numerical analysis<br>stress analysis                               | jenther  | mal flow   |
|               | fulminates   |         | on ood analysis   |          | fluid flow   |
|               | nitrogen compounds   | isoper  | imetric problem   |          | . isothermal flow  |
|               | . cyano compounds  | RT      |   | RT       | flow distribution  |
|               | . isocyanates  |         | continuity (mathematics)  |          | isotherms  |
|               |  |         |   |          |  |

# isothermal layers

|               | temperature distribution                                     | argon isotopes                           | potassium 38                 |
|---------------|--|--|------------------------------|
|               | temperature distribution                                     | arsenic isotopes                         | potassium 39                 |
| isother       | mal layers   | barium isotopes                          | potassium 40                 |
| RT            | isotherms  | beryllium isotopes                       | potassium 40                 |
|               | laminar boundary layer                                       | beryllium 7                              | promethium isotopes          |
|               | stratosphere   | beryllium 9                              | protrietinum isotopes        |
|               | stratospheric warming  | beryllium 10                             | radioactive isotopes         |
|               | temperature distribution                                     | bismuth isotopes                         | astatine isotopes            |
|               | temperature gradients  | boron isotopes                           | beryllium 7                  |
|               | thermal mapping  | boron 10                                 | beryllium 9                  |
|               | tropopause   | bromine isotopes                         | beryllium 10                 |
|               |  | cadmium isotopes                         | carbon 14                    |
|               | mal processes  | calcium isotopes                         | cerium 137                   |
| DEF           | Thermodynamic changes of state of a                          | carbon isotopes                          | cerium 144                   |
|               | that take place at constant temperature.                     | carbon 12                                | cesium 134                   |
| RT            | adiabatic conditions isobars (pressure)                      | carbon 13                                | cesium 137                   |
|               | isotherms  | carbon 14                                | cesium 144                   |
|               | thermodynamic equilibrium                                    | cerium isotopes                          | cobalt 58                    |
|               | thermodynamic equilibrium                                    | cerium 137                               | cobalt 60                    |
| isother       | ms   | cerium 144                               | copper isotopes              |
| DEF           | Lines connecting points of equal tem-                        | cesium isotopes                          | gold 198                     |
| perature      |  | cesium 133                               | indium isotopes              |
| RT            | Atmospheric & Oceanographic Inform                           | cesium 134                               | iodine 125                   |
|               | Sys  | cesium 137                               | iodine 131                   |
|               | atmospheric temperature                                      | cesium 144                               | iodine 132                   |
|               | gradients  | cesium vapor                             | iron 59                      |
|               | isothermal flow  | chromium isotopes                        | krypton 85                   |
|               | isothermal layers  | cobalt isotopes                          | niobium 95                   |
|               | isothermal processes   | cobalt 58                                | nitrogen 16                  |
|               | meteorological parameters                                    | cobalt 60                                | phosphorus 32                |
|               | meteorology  | dysprosium isotopes                      | polonium 208                 |
|               | temperature  | erbium isotopes                          | polonium 209                 |
|               | temperature distribution                                     | europium isotopes                        | polonium 210                 |
|               | temperature gradients  | fluorine isotopes<br>gadolinium isotopes | potassium 38<br>potassium 40 |
|               | thermal mapping  | gallium isotopes                         | rubidium 86                  |
|               | thermodynamics   | germanium isotopes                       | sodium 22                    |
| icotoni       | nity.  | gold isotopes                            | sodium 24                    |
| isotoni<br>RT | body fluids  | gold 198                                 | strontium 85                 |
| 111           | osmosis  | hafnium isotopes                         | strontium 88                 |
|               | 03110313   | helium isotopes                          | strontium 89                 |
| isotope       | abundance ratios   | holmium isotopes                         | strontium 90                 |
| USE           | isotope ratios   | hydrogen isotopes                        | transuranium elements        |
|               | •  | deuterium                                | americium                    |
| isotope       |  | hydrogen 4                               | americium isotopes           |
|               | isotope shift  | metallic hydrogen                        | americium 241                |
| RT •          | ∘ effects  | tritium                                  | berkelium                    |
|               | isotopes   | iodine isotopes                          | californium                  |
|               | radioactive isotopes   | iodine 125                               | californium isotopes         |
| !             |  | iodine 131                               | curium                       |
| isotope       |  | iodine 132                               | curium isotopes              |
| UF            | ed March 1995)   | iridium isotopes                         | curium 242<br>curium 244     |
| Oi            | isotope abundance ratios<br>isotopic analysis (quantitative) | iron isotopes<br>iron 57                 | einsteinium                  |
| GS            | composition (property)                                       | iron 58                                  | fermium                      |
| 00            | . isotope ratios   | iron 59                                  | lawrencium                   |
|               | ratios   | krypton isotopes                         | mendelevium                  |
|               | . isotope ratios   | krypton 85                               | neptunium                    |
| RT            | atmospheric composition                                      | lanthanum isotopes                       | neptunium isotopes           |
|               | cosmochemistry   | lead isotopes                            | nobelium                     |
|               | geochemistry   | lithium isotopes                         | plutonium                    |
|               | geochronology  | lutetium                                 | plutonium isotopes           |
|               | interstellar chemistry                                       | lutetium isotopes                        | plutonium 238                |
|               | meteoritic composition                                       | magnesium isotopes                       | plutonium 239                |
|               | stellar composition  | manganese isotopes                       | plutonium 240                |
|               |  | mercury isotopes                         | plutonium 241                |
|               | separation   | molybdenum isotopes                      | plutonium 244                |
| RT            | atoms  | neodymium isotopes                       | sergenium                    |
|               | heavy ions   | neon isotopes                            | tritium                      |
|               | ion exchanging   | nickel isotopes                          | uranium 232                  |
|               | ion extraction isotopes                                      | niobium isotopes<br>niobium 95           | uranium 233<br>uranium 238   |
|               | jet membrane process   | nitrogen isotopes                        | xenon 133                    |
|               | jet membrane process   | nitrogen 15                              | xenon 135                    |
| isotope       | shift  | nitrogen 16                              | zirconium 95                 |
|               | isotope effect   | nobelium isotopes                        | radium isotopes              |
|               | - P  | osmium isotopes                          | radium 226                   |
| isotope       | es   | oxygen isotopes                          | radon isotopes               |
| DEF           |  | oxygen 17                                | rhenium isotopes             |
|               | t that differ only by the number of neu-                     | oxygen 18                                | rhodium isotopes             |
|               | their nucleus. Most elements have more                       | palladium isotopes                       | rubidium isotopes            |
|               | e naturally occurring isotope.                               | phosphorus isotopes                      | rubidium 86                  |
| GS            | chemical elements  | phosphorus 32                            | ruthenium isotopes           |
|               | . nuclides   | platinum isotopes                        | samarium isotopes            |
|               | isotopes   | polonium isotopes                        | scandium isotopes            |
|               |  |  |                              |
|               | aluminum isotopes  | polonium 208                             | selenium isotopes            |
|               | aluminum 26  | polonium 209                             | silicon isotopes             |
|               |  |  |                              |

| sodium 22  | dinate system moving with the mean motion  | on of water  |
|--|--|--|
| sodium 24 strontium isotopes   | the fluid. GS turbulence   | ISY  |
| strontium 85   | . isotropic turbulence   | USE International Space Year   |
| strontium 87   | RT atmospheric turbulence  |  |
| strontium 89   | coordinate transformations   | Italian space program  |
| strontium 90   | homogeneous turbulence   | GS programs  |
| sulfur isotopes  | instrument receivers   | . space programs<br>European space programs  |
| tantalum isotopes technetium isotopes  | invariant imbeddings<br>Kolmogorov theory  | Italian space program  |
| tellurium  | magnetohydrodynamic turbulence   |  |
| tellurium isotopes   | turbulent flow   | Orbiting Frog Otolith  |
| terbium isotopes   |  | SIRIO satellite  |
| thallium isotopes  | isotropism   | Italy  |
| thorium isotopes<br>thulium isotopes   | RT refractivity  | GS nations   |
| tin isotopes   | symmetry   | . Italy  |
| titanium isotopes  | in atrans.   | RT Adriatic Sea  |
| tungsten isotopes  | isotropy  DEF Having the same properties in all of   | Alps Mountains (Europe)  |
| uranium isotopes   | tions. Used for spatial isotropy.  | Europe Italian space program   |
| uranium 232<br>uranium 233   | UF spatial isotropy  | San Marino   |
| uranium 234  | GS isotropy  | Sicily   |
| uranium 235  | . isotropic media  | SIRIO satellite  |
| uranium 238  | RT anisotropic fluids anisotropy   | Vatican City   |
| vanadium isotopes  | Bragg angle  | itching  |
| xenon isotopes<br>xenon 129  | crystal structure  | RT contact dermatitis  |
| xenon 123  | crystallography  | dermatitis   |
| xenon 135  | crystals   | histamines   |
| ytterbium isotopes   | dendritic crystals<br>directivity  | sensitivity  |
| yttrium isotopes   | field strength   | sensory perception   |
| zinc isotopes  | mechanical properties  | iteration  |
| zirconium isotopes<br>zirconium 95   | metallography  | GS analysis (mathematics)  |
| RT atoms   | optical properties   | numerical analysis   |
| heavy ions   | ∞ orientation  | . iteration  |
| isotope effect   | ∞ physical properties  | conjugate gradient method iterative solution   |
| isotope separation   | Israel   | Newton methods   |
| isotopic enrichment<br>isotopic labeling   | GS nations   | Newton-Raphson method  |
| jet membrane process   | . Israel   | predictor-corrector methods  |
| metals   | RT Asia  | RT multigrid methods   |
| nuclear isobars  | Israeli space program  | probability theory<br>problem solving  |
|  | Israeli spacecraft   | DIODIETTI SOLVITO  |
| nuclei (nuclear physics)   | 1  | p. 55.5 559  |
| radioactive materials  |  | iterative networks   |
| radioactive materials  | Israeli space program  | iterative networks GS circuits   |
|  |  | iterative networks  GS circuits . iterative networks   |
| radioactive materials  isotopic analysis (quantitative)  USE isotope ratios  | Israeli space program<br>(added March 1989)<br>GS programs<br>space programs   | iterative networks GS circuits . iterative networks networks   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  | Israeli space program (added March 1989) GS programs . space programs Israeli space program  | iterative networks GS circuits . iterative networks networks . iterative networks  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abun-  | Israeli space program (added March 1989) GS programs space programs Israeli space program RT Israel  | iterative networks GS circuits . iterative networks networks . iterative networks  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  | Israeli space program (added March 1989) GS programs . space programs Israeli space program  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching iterative solution   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.   | Israeli space program (added March 1989) GS programs space programs Israeli space program RT Israel Israeli spacecraft   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics)  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics)  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope. GS enrichment isotopic enrichment jet membrane process  | Israeli space program (added March 1989) GS programs space programs Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope. GS enrichment isotopic enrichment jet membrane process  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program en added May 1993) RT Israel Israeli space program ∞ spacecraft  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving . iterative solution problem solving . iterative solution RT asymptotic methods   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment jet membrane process RT beneficiation chemical elements ∞ concentration isotopes   | Israeli space program (added March 1989) GS programs . space programs Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program en added May 1993) RT Israel Israeli space program ∞ spacecraft  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment jet membrane process RT beneficiation chemical elements ∞ concentration isotopes   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope. GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration isotopes nuclides   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving iterative solution problem solving conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods   |
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| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment jet membrane process  RT beneficiation chemical elements  ∞ concentration isotopes nuclides  isotopic labeling  GS marking . isotopic labeling  RT chemical analysis  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001)  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving iterative solution problem solving cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors)  |
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| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001)  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving iterative solution problem solving cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope. GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station)  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iterative solution problem solving . iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes  | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization (added June 2000)   | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving iterative solution problem solving cheating solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin GS spin   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization (added June 2000) USE International Space Station isthmuses   | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iterationiterative solution problem solving .iterative solution problem solving .iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors GS electronic equipment   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program . spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses DEF Narrow strips or necks of land, bo  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving iterative solution problem solving cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors. UF indium-tin-oxide semiconductors GS electronic equipment . solid state devices  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment   | Israeli space program (added March 1989) GS programsspace programsIsraeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizationsISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization (added June 2000) USE International Space Station  isthmuses DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two lates.  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration Problem solving . iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors. UF indium-tin-oxide semiconductors GS electronic equipment . solid state devices . semiconductor devices   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling  GS marking . isotopic labeling  RT chemical analysis isotopes radioactive isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin GS spin . particle spin . isotopic media GS isotropy  isotropic media GS isotropy   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program . spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses DEF Narrow strips or necks of land, bo  | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iteration .iterative solution problem solving .iterative solution problem solving .iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors.  UF indium-tin-oxide semiconductors GS electronic equipment .solid state devices .semiconductor devicesmetal oxide semiconductors  |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment   | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft  Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses  DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two la land areas, such as peninsulas and the necks of land areas, such as peninsulas and the necks of land areas, such as peninsulas and the necks of land areas, such as peninsulas and the necks of land areas, such as peninsulas and the necks of land areas, such as peninsulas and the necks of land areas, such as peninsulas and the necks of land areas. | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iteration .iterative solution problem solving .iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors. UF indium-tin-oxide semiconductors GS electronic equipment .solid state devices metal oxide semiconductors   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment   | Israeli space program (added March 1989) GS programsspace programsIsraeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space programspace programspacecraft  ISRO UF Indian Space Research Organiza GS organizationsISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization (added June 2000) USE International Space Station  isthmuses  DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two la land areas, such as peninsulas and the n land or two continents (Isthmus of Panama GS land . isthmuses  | iterative networks GS circuits . iterative networks networks . iterative networks RT impedance matching  iterative solution GS analysis (mathematics) . numerical analysis . iteration iteration problem solving . iterative solution problem solving . iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors. UF indium-tin-oxide semiconductors GS electronic equipment . solid state devices . semiconductor devices . metal oxide semiconductors) semiconductors (materials) . metal oxide semiconductors   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling  GS marking . isotopic labeling  RT chemical analysis isotopes radioactive isotopes radioactive isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin GS spin . particle spin . isotopic media GS isotropy . isotropic media RT anisotropic media isotropic turbulence   | Israeli space program (added March 1989) GS programsspace programsIsraeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizationsISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses  DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two latendareas, such as peninsulas and the mand or two continents (Isthmus of Panama GS landisthmuses landforms  | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iteration .iterative solution problem solving .iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors. UF indium-tin-oxide semiconductors GS electronic equipment .solid state devices .semiconductor devices .semiconductor (materials) .metal oxide semiconductors semiconductors .TTO (semiconductors) .TTO (semiconductors)   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin GS spin . particle spin . isotopic spin  isotropic media GS isotropy . isotropic media RT anisotropic media isotropic turbulence DEF Turbulence in which the products and | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses  DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two la land areas, such as peninsulas and the in land or two continents (Isthmus of Panama GS land . isthmuses landforms . isthmuses landforms . isthmuses . isthmuses   | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iterative solution problem solving .iterative solution problem solving .iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors.  UF indium-tin-oxide semiconductors GS electronic equipment .solid state devices semiconductor (materials) metal oxide semiconductors) semiconductors (materials) metal oxide semiconductors ITO (semiconductors) RT charge coupled devices       |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking isotopic labeling RT chemical analysis isotopes radioactive isotopes radioactive isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin GS spin particle spin isotopic media RT anisotropic media RT anisotropic media isotropic turbulence DEF Turbulence in which the products and squares of the velocity components and their                                | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses  DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two la land areas, such as peninsulas and the land or two continents (Isthmus of Panama GS land . isthmuses landforms . isthmuses RT geology   | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iteration .iterative solution problem solving .iterative solution RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors) DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors. UF indium-tin-oxide semiconductors GS electronic equipment .solid state devices .semiconductor devices .semiconductor (materials) .metal oxide semiconductors semiconductors .TTO (semiconductors) .TTO (semiconductors)   |
| radioactive materials  isotopic analysis (quantitative) USE isotope ratios  isotopic enrichment  DEF Process by which the relative abundance of the isotopes of a given element are altered in a batch to produce a form of the element enriched in a particular isotope.  GS enrichment . isotopic enrichment . jet membrane process  RT beneficiation chemical elements ∞ concentration isotopes nuclides  isotopic labeling GS marking . isotopic labeling RT chemical analysis isotopes radioactive isotopes radioactive isotopes radioactive isotopes radioactive isotopes radiochemistry trace elements ∞ tracers  isotopic spin GS spin . particle spin . isotopic spin  isotropic media GS isotropy . isotropic media RT anisotropic media isotropic turbulence DEF Turbulence in which the products and | Israeli space program (added March 1989) GS programs . space programs . Israeli space program RT Israel Israeli spacecraft (added May 1993) RT Israel Israeli space program ∞ spacecraft  ISRO UF Indian Space Research Organiza GS organizations . ISRO RT India space programs  ISRU (resource utilization) (added August 2001) USE in situ resource utilization  ISS (space station) (added June 2000) USE International Space Station  isthmuses  DEF Narrow strips or necks of land, bo ing on both sides by water, connecting two la land areas, such as peninsulas and the in land or two continents (Isthmus of Panama GS land . isthmuses landforms . isthmuses landforms . isthmuses . isthmuses   | iterative networks GS circuits .iterative networks networks .iterative networks RT impedance matching  iterative solution GS analysis (mathematics) .numerical analysis .iterationiterative solution problem solving .iterative solution problem solving .iterative solution  RT asymptotic methods Cholesky factorization conjugate gradient method finite element method ill-posed problems (mathematics) multigrid methods Newton methods predictor-corrector methods sorting algorithms strange attractors  ITO (semiconductors)  DEF Semiconductor devices consisting of a layer of tin sandwiched between an indium layer and an oxide layer. Used for indium-tin-oxide semiconductors.  UF indium-tin-oxide semiconductors GS electronic equipment .solid state devicesmetal oxide semiconductors) semiconductors (materials)metal oxide semiconductorsITO (semiconductors) RT charge coupled devices charge transfer devices |

TIROS N series satellites

rectifiers TIROS operational satellite system . scientific satellites SOS (semiconductors) . . astronomical satellites ITOS 4 . . IUE GS artificial satellites observatories ITOS 1 . meteorological satellites
. TIROS satellites . astronomical observatories GS artificial satellites . . astronomical satellites . meteorological satellites
. TIROS satellites ... ITOS satellites ..IUE RT TIROS M RT Explorer satellites . . . ITOS satellites Extreme Ultraviolet Explorer satellite .. ITOS 1 TIROS N series satellites radio astronomy RT TIROS M TIROS operational satellite system spaceborne astronomy TIROS N series satellites ultraviolet radiation **ITOS** satellites TIROS operational satellite system (added August 1990) IUS DEF Second generation, polar orbiting, en-USE Inertial Upper Stage ITOS 2 vironmental satellite used to augment NOAA's GS artificial satellites
. meteorological satellites
. TIROS satellites world-wide weather observation capabilities.
UF Improved TIROS Operational
Satellites Ivory Coast UŚE Cote d'Ivoire Ivuna meteorite
GS celestial bodies GS artificial satellites . . . ITOS satellites . meteorological satellites . . TIROS satellites .... ITOS 2 TIROS M . meteorites . . stony meteorites TIROS N series satellites ... ITOS satellites ....ITOS 1 . . . carbonaceous meteorites TIROS operational satellite system . . . . carbonaceous chondrites . . . . Ivuna meteorite . . . . ITOS 3 . . . chondrites ITOS 3 .. ITOS 4 . . . . carbonaceous chondrites GS artificial satellites TIROS M . meteorological satellites
. TIROS satellites . . . . . Ivuna meteorite TIROS N series satellites Izsak ellipsoid . . . ITOS satellites IUE USE ellipsoids RT TIROS M UF International Ultraviolet Explorer geodesy SAS-D

artificial satellites

GS

| J integ        | ral                                     | J-47 engine                                       | gas turbine engines                            |
|----------------|---|---|--|
| DEF            | A contour energy integral formulated    | . turbine engines                                 | jet engines                                    |
|                | and used for evaluating fracture tough- | gas turbine engines                               | turbojet engines                               |
|                | elastoplastic materials.                | jet engines                                       | J-69-T-25 engine                               |
| GS             | analysis (mathematics)                  | turbojet engines                                  | . internal combustion engines                  |
|                | . functional analysis                   | J-47 engine                                       | gas turbine engines                            |
|                | integral equations                      | J-52 engine                                       | jet engines                                    |
|                | <b>J integral</b><br>. real variables   | GS engines  | turbojet engines<br><b>J-69-T-25 engine</b>    |
|                | measure and integration                 | . air breathing engines                           | . turbine engines                              |
|                | J integral                              | gas turbine engines                               | gas turbine engines                            |
| RT             | crack initiation                        | jet engines                                       | jet engines                                    |
|                | crack propagation                       | turbojet engines                                  | turbojet engines                               |
|                | cracking (fracturing)                   | J-52 engine                                       | J-69-T-25 engine                               |
|                | creep rupture strength                  | . aircraft engines                                |  |
|                | elastoplasticity                        | . J-52 engine                                     | J-71 engine                                    |
|                | fracture mechanics                      | . internal combustion engines gas turbine engines | GS engines                                     |
|                | fracture strength integral calculus     | jet engines                                       | . air breathing engines                        |
|                | mechanical properties                   | turbojet engines                                  | . gas turbine engines<br>jet engines           |
|                | plastic deformation                     | J-52 engine                                       | turbojet engines                               |
|                | structural analysis                     | . turbine engines                                 | J-71 engine                                    |
|                | toughness                               | gas turbine engines                               | . internal combustion engines                  |
|                | yield strength                          | jet engines                                       | gas turbine engines                            |
|                |   | turbojet engines                                  | jet engines                                    |
| J-2 eng        | •                                       | J-52 engine                                       | turbojet engines                               |
| GS             | 0                                       | J-57 engine                                       | J-71 engine                                    |
|                | . rocket engines                        | GS engines  | . turbine engines                              |
|                | liquid propellant rocket engines        | . air breathing engines                           | gas turbine engines                            |
|                | hydrogen oxygen engines J-2 engine      | gas turbine engines                               | jet engines                                    |
| RT             | Ares 1 upper stage                      | jet engines                                       | turbojet engines<br><b>J-71 engine</b>         |
|                | Ares 5 cargo launch vehicle             | turbojet engines                                  | o r i ongmo                                    |
|                | Nova launch vehicles                    | J-57 engine                                       | J-73 engine                                    |
|                | Saturn 1B launch vehicles               | . internal combustion engines                     | UF YJ-73-GE-3 engine                           |
|                | Saturn 5 launch vehicles                | gas turbine engines                               | YJ73 turbojet engine                           |
|                |   | jet engines                                       | GS engines                                     |
| <b>J-33</b> en | gine                                    | turbojet engines<br><b>J-57 engine</b>            | . air breathing engines                        |
| GS             | engines                                 | . turbine engines                                 | gas turbine engines                            |
|                | . air breathing engines                 | gas turbine engines                               | jet engines                                    |
|                | gas turbine engines                     | jet engines                                       | turbojet engines                               |
|                | jet engines turbojet engines            | turbojet engines                                  | J-73 engine<br>. internal combustion engines   |
|                | J-33 engine                             | J-57 engine                                       | gas turbine engines                            |
|                | . internal combustion engines           | RT afterburning                                   | jet engines                                    |
|                | gas turbine engines                     | I 50 angina                                       | turbojet engines                               |
|                | jet engines                             | J-58 engine<br>GS engines                         | J-73 engine                                    |
|                | turbojet engines                        | GS engines . air breathing engines                | . turbine engines                              |
|                | J-33 engine                             | gas turbine engines                               | gas turbine engines                            |
|                | . turbine engines                       | jet engines                                       | jet engines                                    |
|                | gas turbine engines                     | turbojet engines                                  | turbojet engines                               |
|                | jet engines                             | J-58 engine                                       | J-73 engine                                    |
|                | turbojet engines<br><b>J-33 engine</b>  | . aircraft engines                                | L75 angina                                     |
|                | turbomachinery                          | J-58 engine                                       | <b>J-75 engine</b><br>GS engines               |
|                | . J-33 engine                           | . internal combustion engines                     | . air breathing engines                        |
| RT             | Mace missiles                           | gas turbine engines                               | gas turbine engines                            |
|                |   | jet engines<br>turbojet engines                   | jet engines                                    |
| J-34 en        | gine                                    | J-58 engine                                       | turbojet engines                               |
| UF             | XJ-34-WE-32 engine                      | . turbine engines                                 | J-75 engine                                    |
| GS             | engines                                 | gas turbine engines                               | . internal combustion engines                  |
|                | . air breathing engines                 | jet engines                                       | gas turbine engines                            |
|                | gas turbine engines                     | turbojet engines                                  | jet engines                                    |
|                | jet engines turbojet engines            | J-58 engine                                       | turbojet engines<br><b>J-75 engine</b>         |
|                | J-34 engine                             | L SE angino                                       | . turbine engines                              |
|                | . internal combustion engines           | J-65 engine<br>GS engines                         | gas turbine engines                            |
|                | gas turbine engines                     | . air breathing engines                           | jet engines                                    |
|                | jet engines                             | gas turbine engines                               | turbojet engines                               |
|                | turbojet engines                        | jet engines                                       | J-75 engine                                    |
|                | J-34 engine                             | turbojet engines                                  |  |
|                | . turbine engines                       | J-65 engine                                       | J-79 engine                                    |
|                | gas turbine engines                     | . internal combustion engines                     | UF XJ-79-GE-1 engine                           |
|                | jet engines                             | gas turbine engines                               | YJ-79 engine                                   |
|                | turbojet engines<br><b>J-34 engine</b>  | jet engines                                       | GS engines                                     |
|                | 0-54 engine                             | turbojet engines                                  | . air breathing engines<br>gas turbine engines |
| J-47 en        | naine                                   | <b>J-65 engine</b><br>. turbine engines           | jet engines                                    |
| GS             | engines                                 | gas turbine engines                               | turbojet engines                               |
|                | . air breathing engines                 | jet engines                                       | J-79 engine                                    |
|                | gas turbine engines                     | turbojet engines                                  | . internal combustion engines                  |
|                | jet engines                             | J-65 engine                                       | gas turbine engines                            |
|                | turbojet engines                        | RT A-4 aircraft                                   | jet engines                                    |
|                | J-47 engine                             |   | turbojet engines                               |
|                | . internal combustion engines           | J-69-T-25 engine                                  | J-79 engine                                    |
|                | gas turbine engines                     | UF Marbore 2 engine GS engines                    | . turbine engines                              |
|                | jet engines turbojet engines            | GS engines . air breathing engines                | . gas turbine engines<br>jet engines           |
|                | tarbojot originios                      | . an broading origines                            | jot ongines                                    |

|               | turbojet engines   |                     | cooling  | RT                  | Caribbean region   |
|---------------|--|---------------------|--|---------------------|--|
| RT            | J-79 engine<br>F-4 aircraft  |                     | coverings<br>heating   | James               | Webb Space Telescope   |
|               | 1 Tallorate  |                     | insulation   |                     | led October 2003)  |
| J-85 er       | _  |                     | linings  |                     | Orbiting infrared observatory com-   |
| UF<br>GS      | YJ-85 engine<br>engines  |                     | sheaths  |                     | of an optical telescope element, inte-<br>science instrument module, and a space |
| GG            | air breathing engines  | iacking             | equipment  |                     | t module. Successor telescope to the   |
|               | gas turbine engines  |                     | jacks (lifts)  |                     | Space Telescope.   |
|               | jet engines  |                     |  | UF                  | JWST (observatory)   |
|               | turbojet engines<br>J-85 engine  | ∞ jacks             |  | GS                  | artificial satellites . scientific satellites                                    |
|               | . internal combustion engines  | SN                  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS       |                     | astronomical satellites  |
|               | gas turbine engines  | RT                  | LISTED BELOW)  |                     | James Webb Space Telescope   |
|               | jet engines  | KI                  | electric connectors<br>elevators (lifts)                           |                     | observatories  |
|               | turbojet engines<br><b>J-85 engine</b>   |                     | jacks (lifts)  |                     | . astronomical observatories astronomical satellites                             |
|               | . turbine engines  |                     |  |                     | James Webb Space Telescope   |
|               | gas turbine engines  |                     | electrical) electric connectors                                    |                     | telescopes   |
|               | jet engines  | USL                 | electric confilectors  |                     | . spaceborne telescopes  |
|               | turbojet engines<br>J-85 engine  | jacks (I            | ifts)  | RT                  | James Webb Space Telescope Hubble Space Telescope                                |
| RT            | Blue Goose missile   |                     | jacking equipment  |                     | infrared astronomy   |
|               | Osprey missile   |                     | ∘ jacks  |                     | infrared telescopes  |
| J-93 er       | ngine  | c                   | <ul> <li>lifts</li> <li>positioning devices (machinery)</li> </ul> |                     | Next Generation Space Telescope  |
| UF            | J93-MJ252H engine  |                     | tunneling (excavation)   |                     | project spaceborne astronomy   |
|               | J93-MJ280G engine  |                     | ,  |                     | opacozomo acaremem,  |
|               | YJ-93 engine   |                     | integral   | jamme               |  |
| GS            | YJ-93-GE-3 engine engines  | GS                  | analysis (mathematics) . real variables                            | RT                  | air defense<br>jamming   |
| GG            | air breathing engines  |                     | Jacobi integral  |                     | radar equipment  |
|               | gas turbine engines  | RT                  | conformal mapping  |                     | radio equipment  |
|               | jet engines  |                     | diffusion theory   |                     |  |
|               | turbojet engines<br>J-93 engine  |                     | elliptic functions<br>Green's functions                            | jammir<br>DEF       | Intentional transmission or reradiation  |
|               | . internal combustion engines  |                     | potential theory   |                     | signals in such a way as to interfere with                                       |
|               | gas turbine engines  |                     | Weierstrass functions  | reception           | on of desired signals by the intended  |
|               | jet engines  |                     |  | receive             |  |
|               | turbojet engines<br>J-93 engine  | <b>Jacobi</b><br>GS | matrix method  | GS                  | countermeasures . jamming  |
|               | . turbine engines  | GS                  | analysis (mathematics) . real variables                            |                     | electromagnetic interference   |
|               | gas turbine engines  |                     | Jacobi matrix method   |                     | . jamming  |
|               | jet engines  | RT                  | calculus of variations   | RT                  |  |
|               | turbojet engines<br>J-93 engine  |                     | eigenvalues  |                     | electronic countermeasures electronic warfare                                    |
|               | o oo engme   |                     | eigenvectors<br>Hermitian polynomial                               |                     | frequency hopping  |
|               | l252H engine   | c                   | o methodology  |                     | ∞ interference   |
| USE           | J-93 engine  |                     |  |                     | jammers  |
| J93-MJ        | 1280G engine   |                     | polynomials  |                     | radio frequency interference space-time adaptive processing                      |
|               | J-93 engine  | USE                 | hypergeometric functions   |                     | white noise  |
|               |  | Jaguar              | aircraft   |                     |  |
| J-97 er<br>GS | ngine<br>engines   | ĞS                  | attack aircraft  | <b>Janus</b><br>DEF | One of the natural satellites of Saturn.   |
| 00            | . air breathing engines  |                     | . fighter aircraft   | GS                  | celestial bodies   |
|               | gas turbine engines  |                     | Jaguar aircraft single engine aircraft                             |                     | . natural satellites   |
|               | jet engines  |                     | . Jaguar aircraft  |                     | Saturn satellites  |
|               | turbojet engines turbofan engines  |                     | supersonic aircraft  | RT                  | <b>Janus</b><br>Saturn (planet)  |
|               | J-97 engine  | DT.                 | . Jaguar aircraft  |                     | Catam (planet)   |
|               | . aircraft engines   | KI °                | ∘ aircraft<br>Brequet aircraft                                     |                     | Reactor  |
|               | J-97 engine  | 0                   | military aircraft  | GS                  | nuclear reactors . nuclear research and test reactors                            |
|               | . internal combustion engines gas turbine engines                              |                     |  |                     | Janus Reactor  |
|               | jet engines  |                     | rocket vehicle   |                     |  |
|               | turbojet engines   | UF<br>GS            | Jabiru rocket vehicle rocket vehicles                              |                     | spacecraft   |
|               | turbofan engines   | 00                  | . multistage rocket vehicles                                       | GS                  | gliders . Janus spacecraft   |
|               | J-97 engine . turbine engines  |                     | Jaguar rocket vehicle  |                     | lifting bodies   |
|               | gas turbine engines  |                     | . sounding rockets   |                     | . lifting reentry vehicles   |
|               | jet engines  | RT                  | Jaguar rocket vehicle solid propellant rocket engines              |                     | Janus spacecraft   |
|               | turbojet engines   | 111                 | cond proponant rooket origines                                     |                     | maneuverable spacecraft . Janus spacecraft                                       |
|               | turbofan engines<br><b>J-97 engine</b>   | Jahn-Te             | eller effect   |                     | manned spacecraft  |
|               | _  |                     | The effect whereby, except for linear                              |                     | Janus spacecraft   |
|               | rocket vehicle   |                     | es, degenerate orbital states in molare unstable.                  |                     | reentry vehicles   |
| USE           | Jaguar rocket vehicle  |                     | ∞ effects  |                     | . maneuverable reentry bodies lifting reentry vehicles                           |
| jackets       | •  |                     | electron paramagnetic resonance                                    |                     | Janus spacecraft   |
| SN            | (EXCLUDES CLOTHING)  |                     | electron transitions   |                     | soft landing spacecraft  |
| DEF           | Coverings or casings of some kind.   |                     | orbitals   |                     | . Janus spacecraft   |
|               | cally, a shell around the combustion er of a liquid fuel rocket, through which | Jamaic              | а  | Japan               |  |
|               | pellant is circulated in regenerative cool-                                    | GS                  | landforms  | GS                  | landforms  |
|               | patings of one material over another to  |                     | . islands  |                     | . islands  |
|               | t damage such as oxidation or microme-   |                     | West Indies  |                     | Pacific islands  |
| teroia p      | penetration.<br>absorbers (materials)  |                     | <b>Jamaica</b><br>nations  |                     | <b>Japan</b><br>nations  |
|               | ,  |                     |  |                     |  |

Jamaica

. Japan

∞ casing

RT Asia sounding rockets . F-106 aircraft Japanese space program . F-117A aircraft Japanese spacecraft Jayhawk helicopter . FD 2 aircraft USE H-60 Helicopter G-91 aircraft . G-95/4 aircraft Japanese space program JC-130 aircraft . GA-5 aircraft GS programs USE C-130 aircraft . H-17 helicopter . space programs . Japanese space program . H-126 aircraft Jeans theory Ginga satellite . HFB-320 aircraft gravitational instability HOPE aerospace plane . HP-115 aircraft ∞ theories Japan . HS-801 aircraft Japanese spacecraft . IL-76 aircraft ieeps meteorological satellites . IL-86 aircraft automobiles USF ∞ research projects . IL-96 aircraft satellite design . jet provost aircraft ierboas space missions GS animals . Jetstream aircraft space transportation . Jindivik target aircraft vertebrates ∞ spacecraft . . mammals . L-29 jet trainer spacecraft design . . . rodents . L-1011 aircraft Tenma satellite . L-2000 aircraft . . . . mice . Lear jet aircraft . MD 11 aircraft . . . . . jerboas Japanese spacecraft . MD 80 aircraft Spacecraft operated by the Japanese iet aircraft Mirage aircraft
 Mirage 3 aircraft
 Mystere 50 aircraft jet flight turbojet aircraft jet aircraft government. Used for MOS (Japanese spacecraft). ÚF MOS (Japanese spacecraft) Nord 1500 aircraft A-2 aircraft GS Japanese spacecraft . P-308 aircraft . PD-808 aircraft . EXOS satellites A-3 aircraft . A-4 aircraft . . EXOS-A satellite S-3 aircraft SC-1 aircraft A-5 aircraft . . EXOS-B satellite . . EXOS-C satellite A-6 aircraft . . EXOS-D satellite Scimitar aircraft Alpha jet aircraft AVRO 707 aircraft . Engineering Test Satellites T-2 aircraft B-1 aircraft T-33 aircraft Ginga satellite . T-37 aircraft Nozomi Mars Orbiter B-2 aircraft B-47 aircraft . T-38 aircraft Tenma satellite B-52 aircraft . T-39 aircraft RT Japan B-57 aircraft . TS-11 aircraft Japanese space program B-58 aircraft . TSR-2 aircraft ∞ spacecraft B-66 aircraft . TU-104 aircraft B-70 aircraft TU-124 aircraft jarring Boeing 747 aircraft . TU-154 aircraft mechanical shock Boeing 777 aircraft . TU-204 aircraft Boeing 2707 aircraft . turbofan aircraft Buccaneer aircraft . . A-7 aircraft JAS-39 aircraft C-5 aircraft . . BAC 111 aircraft (added June 1995) C-8A augmentor wing aircraft . . Boeing 707 aircraft Gripen aircraft . . Boeing 717 aircraft attack aircraft C-9 aircraft GS Boeing 720 aircraft . C-135 aircraft . fighter aircraft . . Boeing 727 aircraft C-140 aircraft . JAS-39 aircraft Boeing 733 aircraft Canberra aircraft RT ∞ aircraft . . Boeing 737 aircraft canard configurations . CL-41 aircraft CL-823 aircraft Boeing 757 aircraft Sweden Boeing 767 aircraft Comet 4 aircraft CV-880 aircraft C-141 aircraft JATO engines CL-600 challenger aircraft D-558 aircraft jet assisted takeoff DC 9 aircraft DC 10 aircraft Concorde aircraft GS engines CV-990 aircraft JATO engines DH 112 aircraft DC 8 aircraft launchers DH 115 aircraft . . DH 121 aircraft . aircraft launching devices DH 125 aircraft . . DO-31 aircraft . JATO engines DHC 2 aircraft F-5 aircraft short takeoff aircraft . European Airbus . . A-300 aircraft F-28 transport aircraft solid propellant rocket engines . . F-111 aircraft takeoff IL-62 aircraft . . A-310 aircraft . . A-320 aircraft Mystere 20 aircraft Java (programming language) A-330 aircraft P-1127 aircraft (added December 1998) . . A-340 aircraft . . P-1154 aircraft languages A-380 aircraft Saab 37 aircraft Saab 105 aircraft . programming languages F-2 aircraft . . high level languages F-4 aircraft SE-210 aircraft . Java (programming language) . F-8 aircraft . . TU-134 aircraft C++ (programming language) F-9 aircraft . . TU-144 aircraft client server systems F-14 aircraft . turboprop aircraft internets F-15 aircraft . . AN-22 aircraft object-oriented programming F-16 aircraft . . AN-24 aircraft World Wide Web . F-17 aircraft . . Argosy MK-1 aircraft F-18 aircraft . . ATR-72 aircraft F-20 aircraft . . Breguet 941 aircraft Javelin aircraft . F-22 aircraft . . Breguet 1150 aircraft USE GA-5 aircraft . F-84 aircraft . . C-2 aircraft . F-86 aircraft C-130 aircraft . . C-133 aircraft Javelin rocket vehicle . F-89 aircraft rocket vehicles F-94 aircraft C-160 aircraft . multistage rocket vehicles . F-100 aircraft . . CL-44 aircraft . Javelin rocket vehicle . F-101 aircraft . . CL-84 aircraft Argo rocket vehicles F-102 aircraft . . DHC 5 aircraft . . DO-328 aircraft rocket propelled sleds . F-104 aircraft

. F-105 aircraft

solid propellant rocket engines

. . E-2 aircraft

| Electra aircraft                                 | nozzle walls   | combustion of their fuel (or outside air for heat-  |
|--|--|---|
| F-27 aircraft                                    | int assisted takeoff   | ing, as in the case of the nuclear jet engine),   |
| G-222 aircraft                                   | jet assisted takeoff USE JATO engines  | distinguished in this sense from a rocket engine.   |
| HS-748 aircraft<br>MH-262 aircraft               | OOL SAIO engines   | Jet engines of this kind may have compressors,  |
| OV-1 aircraft                                    | jet augmented wing flaps   | commonly turbine driven, to take in and com-  |
| OV-10 aircraft                                   | USE jet flaps  | press air (turbojets), or they may be compres-<br>sorless, taking in and compressing air by other |
| P-3 aircraft                                     | wing flaps   | means (pulsejets, ramjets).   |
| SC-5 aircraft                                    | jet blast effects  | GS engines  |
| . Viscount aircraft                              | RT ∞ blasts  | . air breathing engines   |
| YS-11 aircraft<br>. U-2 aircraft                 | ∞ effects  | gas turbine engines   |
| . Valiant aircraft                               | exhaust gases  | jet engines   |
| . Vampire MK 35 aircraft                         | ground effect (aerodynamics)   | ramjet engines  |
| . VC-10 aircraft                                 | noise (sound)  | integral rocket ramjets   |
| . Victor MK-1 aircraft                           | pressure effects<br>temperature effects  | low volume ramjet engines pulsejet engines  |
| . VJ-101 aircraft                                | tomporatare enecto   | supersonic combustion ramjet  |
| . Vulcan aircraft<br>. X-3 aircraft              | jet boundaries   | engines   |
| . X-5 aircraft                                   | GS boundaries  | turboramjet engines   |
| . X-13 aircraft                                  | . fluid boundaries   | turbojet engines  |
| . X-14 aircraft                                  | <b>jet boundaries</b><br>interfaces  | Bristol-Siddeley Olympus 593  |
| . X-21 aircraft                                  | . fluid boundaries   | engine<br>Bristol-Siddeley Viper engine   |
| . X-21A aircraft                                 | jet boundaries   | ducted fan engines  |
| . X-31 aircraft<br>. X-32 aircraft               | RT free jets   | J-33 engine   |
| . X-35 aircraft                                  | liquid surfaces  | J-34 engine   |
| . XC-142 aircraft                                | wall jets  | J-47 engine   |
| . XV-4 aircraft                                  | jet condensers   | J-52 engine   |
| . XV-5 aircraft                                  | GS condensers (liquefiers)   | J-57 engine   |
| . XV-9A aircraft                                 | . jet condensers   | J-58 engine<br>J-65 engine  |
| . Yak 40 aircraft                                | RT ∞ condensers  | J-69-T-25 engine  |
| RT ∞ aircraft<br>aircraft noise                  | liquefaction   | J-71 engine   |
| attack aircraft                                  | nucleation   | J-73 engine   |
| bomber aircraft                                  | spray condensers   | J-75 engine   |
| cargo aircraft                                   | working fluids   | J-79 engine   |
| commercial aircraft                              | jet control  | J-85 engine   |
| fighter aircraft                                 | RT automatic control   | J-93 engine<br>RA-28 engine   |
| flying platforms                                 | boundary layer control   | turbofan engines  |
| general aviation aircraft<br>hypersonic aircraft | ∞ control  | Bristol-Siddeley BS 53 engine   |
| ∞ jets   | directional control  | CF-700 engine   |
| ∞ low wing aircraft                              | satellite attitude control<br>satellite control  | convertible fan-shaft engines   |
| ∞ military aircraft                              | thrust control   | J-97 engine   |
| passenger aircraft                               | variable thrust  | TF-30 engine<br>TF-34 engine  |
| reconnaissance aircraft                          |  | TF-34 engine  |
| research aircraft                                | jet damping  | turboprop engines   |
| short takeoff aircraft<br>∞ subsonic aircraft    | USE damping  | T-34 engine   |
| supersonic aircraft                              | spin reduction   | T-38 engine   |
| tailless aircraft                                | Jet Dragon aircraft  | T-53 engine   |
| tandem wing aircraft                             | USE DH 125 aircraft  | T-55 engine   |
| training aircraft                                |  | T-56 engine   |
| transport aircraft                               | jet drive  | T-63 engine<br>T-64 engine  |
| turbojet engines                                 | USE jet propulsion   | T-74 engine   |
| V/STOL aircraft<br>∞ winged vehicles             | jet engine fuels   | T-76 engine   |
| YF-12 aircraft                                   | UF jet fuels   | T-78 engine   |
| The survivals                                    | GS fuels   | turboramjet engines   |
| jet aircraft noise                               | . chemical fuels   | internal combustion engines   |
| UF jet noise                                     | hydrocarbon fuels  | gas turbine engines   |
| GS elastic waves                                 | jet engine fuels   | <b>jet engines</b><br>ramjet engines  |
| . sound waves<br>noise (sound)                   | JP-4 jet fuel<br>JP-5 jet fuel   | integral rocket ramjets   |
| aircraft noise                                   | JP-6 jet fuel  | low volume ramjet engines   |
| jet aircraft noise                               | JP-7 jet fuel  | pulsejet engines  |
| RT acoustic retrofitting                         | JP-8 jet fuel  | supersonic combustion ramjet  |
| aerodynamic noise                                | liquid fuels   | engines   |
| ∞ aircraft                                       | jet engine fuels   | turboramjet engines<br>turbojet engines   |
| aircraft runup                                   | JP-4 jet fuel<br>JP-5 jet fuel   | Bristol-Siddeley Olympus 593  |
| engine noise<br>mufflers                         | JP-6 jet fuel  | engine  |
| noise measurement                                | JP-7 jet fuel  | Bristol-Siddeley Viper engine   |
| noise reduction                                  | JP-8 jet fuel  | ducted fan engines  |
| quiet engine program                             | RT aircraft fuels  | J-33 engine   |
| screech tones                                    | antimisting fuels  | J-34 engine   |
| sonic booms                                      | gasoline   | J-47 engine<br>J-52 engine  |
| jet airstreams                                   | kerosene   | J-52 engine<br>J-57 engine  |
| USE jet streams (meteorology)                    | turbines   | J-58 engine   |
|  | jet engines  | J-65 engine   |
| jet amplifiers                                   | SN (EXCLUDES HYDROJET ENGINES)   | J-69-T-25 engine  |
| UF fluid jet amplifiers                          | DEF Broadly, engines that eject jets or  | J-71 engine   |
| GS amplifiers                                    | streams of gas or fluids, obtaining all or most of   | J-73 engine   |
| . fluid amplifiers<br><b>jet amplifiers</b>      | their thrust by reaction to the ejection. Specifi-<br>cally, aircraft engines that derive all or most of | J-75 engine<br>J-79 engine  |
| RT Coanda effect                                 | their thrust by reaction to their ejection of com-   | J-85 engine   |
| fluid jets                                       | bustion products (or heated air) in a jet and that   | J-93 engine   |
| ∞ jet nozzles                                    | obtains oxygen from the atmosphere for the   | RA-28 engine  |

|   | turbofan engines                 |              | thrust                           |                   | jet lift   |
|---|----------------------------------|--------------|----------------------------------|-------------------|--|
|   | Bristol-Siddeley BS 53 engine    |              |                                  |                   | dynamic characteristics                                      |
|   | CF-700 engine                    | jet exha     | ust                              |                   | . lift   |
|   | convertible fan-shaft engines    | UF           | hot jet exhaust                  |                   | jet lift   |
|   | <u> </u>                         | RT           | base heating                     | RT                | distribution (property)                                      |
|   | J-97 engine                      |              | exhaust emission                 | 101               | diotribution (proporty)                                      |
|   | TF-30 engine                     |              | exhaust gases                    | iot mon           | hrano process  |
|   | TF-34 engine                     |              |                                  |                   | hbrane process   |
|   | TF-41 engine                     |              | infrared suppression             | DEF               | Method for separating or enriching iso                       |
|   | turboprop engines                |              | rocket exhaust                   |                   | the same element by using a condens                          |
|   | T-34 engine                      |              |                                  |                   | por as the carrier fluid. A process gas                      |
|   | 9                                | jet flame    |                                  | containi          | ng the isotopes enters a chamber into                        |
|   | T-38 engine                      | USE          | flames                           | which a           | heavy condensable gas (the jet) flows                        |
|   | T-53 engine                      |              | jet flow                         | The ligh          | hter of the two isotopes is enriched                         |
|   | T-55 engine                      |              |                                  | relative          | to the heavier species, and is collected                     |
|   | T-56 engine                      | jet flaps    | <b>;</b>                         |                   | be downstream for further enrichment o                       |
|   | T-63 engine                      | UF           | jet augmented wing flaps         | analysis          |  |
|   | T-64 engine                      | GS           | airfoils                         | GS                | enrichment   |
|   | T-74 engine                      |              | . flaps (control surfaces)       | 00                |  |
|   | 9                                |              | . jet flaps                      |                   | . isotopic enrichment  |
|   | T-76 engine                      |              |                                  |                   | . jet membrane process                                       |
|   | T-78 engine                      |              | control surfaces                 | RT                | 0 ,  |
|   | turboramjet engines              |              | . flaps (control surfaces)       |                   | isotope separation   |
|   | . turbine engines                |              | jet flaps                        |                   | isotopes   |
|   | gas turbine engines              | RT           | externally blown flaps           |                   | jet flow   |
|   | jet engines                      |              | H-126 aircraft                   |                   | membranes  |
|   |                                  |              | short takeoff aircraft           | •                 | o processes  |
|   | ramjet engines                   |              | split flaps                      |                   | uranium  |
|   | integral rocket ramjets          |              | tangential blowing               |                   |  |
|   | low volume ramjet engines        |              | trailing edge flaps              | jet mixi          | ng flow  |
|   | pulsejet engines                 |              | vortex flaps                     |                   |  |
|   | supersonic combustion ramjet     |              | wing flaps                       | GS                |  |
|   | engines                          |              | wing haps                        |                   | . jet flow   |
|   | •                                | :- ( 41:1- ( |                                  |                   | jet mixing flow  |
|   | turboramjet engines              | jet flight   |                                  | RT                | fluid jets   |
|   | turbojet engines                 | USE          | jet aircraft                     |                   | free boundaries  |
|   | Bristol-Siddeley Olympus 593     |              |                                  |                   | fuel injection   |
|   | engine                           | jet flow     |                                  |                   | injectors  |
|   | Bristol-Siddeley Viper engine    | UF           | hot jets                         |                   | ∍ jets   |
|   | ducted fan engines               |              | jet flames                       |                   | mixing   |
|   | J-33 engine                      |              | laminar jets                     |                   |  |
|   | J-34 engine                      |              | reaction jets                    |                   | mixing layers (fluids)                                       |
|   | J-47 engine                      | GS           | fluid flow                       |                   | premixing  |
|   | J-52 engine                      | 00           |                                  |                   | screech tones  |
|   |                                  |              | . jet flow                       |                   | two dimensional jets   |
|   | J-57 engine                      |              | air jets                         |                   |  |
|   | J-58 engine                      |              | jet mixing flow                  | jet noise         | 9  |
|   | J-65 engine                      |              | peripheral jet flow              | USE               | jet aircraft noise   |
|   | J-69-T-25 engine                 |              | supersonic jet flow              |                   | •  |
|   | J-71 engine                      | RT           | fluid jets                       | ∞ jet noz         | 2912   |
|   | J-73 engine                      |              | free boundaries                  | ∞ jet 1102.<br>SN |  |
|   | J-75 engine                      |              | free jets                        | SIN               | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|   | J-79 engine                      |              | gas streams                      |                   | LISTED BELOW)  |
|   | J-85 engine                      |              | hydraulic jets                   | RT                |  |
|   | J-93 engine                      |              | injectors                        |                   | conical nozzles  |
|   | RA-28 engine                     |              |                                  |                   | exhaust diffusers  |
|   |                                  |              | jet membrane process             |                   | exhaust nozzles  |
|   | turbofan engines                 | 00           | jets                             |                   | fuel injection   |
|   | Bristol-Siddeley BS 53 engine    |              | nozzle flow                      |                   |  |
|   | CF-700 engine                    |              | particle laden jets              |                   | injectors  |
|   | convertible fan-shaft engines    |              | spanwise blowing                 |                   | jet amplifiers   |
|   | J-97 engine                      |              | two dimensional jets             |                   | jet engines  |
|   | TF-30 engine                     |              | vapor jets                       |                   | skirts   |
|   | TF-34 engine                     |              | wall jets                        |                   |  |
|   | TF-41 engine                     |              | 12.12                            | jet pilots        | 3  |
|   | turboprop engines                | jet fuels    |                                  | ÚSE               | aircraft pilots  |
|   | T-34 engine                      | USE          | jet engine fuels                 |                   | •  |
|   | T-38 engine                      | OOL          | jet engine racis                 | jet prop          | nulsion  |
|   | T-53 engine                      | int immi     | ngement                          | UF                | jet drive  |
|   |                                  |              | •                                |                   |  |
|   | T-55 engine                      | GS           | impingement                      | GS                | propulsion   |
|   | T-56 engine                      |              | . jet impingement                | БТ                | jet propulsion   |
|   | T-63 engine                      | RT           | ablation                         | RT                | aircraft engines   |
|   | T-64 engine                      |              | base heating                     |                   | chemical propulsion  |
|   | T-74 engine                      |              |                                  |                   | helicopter propeller drive                                   |
|   | T-76 engine                      | jet lag      |                                  |                   | marine propulsion  |
|   | T-78 engine                      | DEF          | Desynchronization of biological  |                   | rocket engines   |
|   | turboramjet engines              |              | because of transmeridian flight. |                   | SQUID project  |
|   | afterburning                     | GS           | biological effects               |                   | turbines   |
|   |                                  | 00           |                                  |                   | tarbines   |
|   | aircraft engines                 |              | . jet lag                        | !=4               |  |
|   | combustion chambers              |              | disorientation                   |                   | ost aircraft   |
|   | ejectors                         |              | . jet lag                        | UF                | Hunting P-84 aircraft  |
|   | engine starters                  |              | psychological effects            |                   | P-84 aircraft  |
|   | exhaust nozzles                  |              | . jet lag                        | GS                | attack aircraft  |
|   | flameout                         | RT           | desynchronization (biology)      |                   | . fighter aircraft   |
|   | flying ejection seats            |              | disorders                        |                   | jet provost aircraft   |
|   | fuel injection                   |              | flight stress (biology)          |                   | BAC aircraft   |
|   | fuel pumps                       |              | rhythm (biology)                 |                   | . jet provost aircraft                                       |
|   | helicopter engines               |              | supersonic flight                |                   | jet aircraft   |
|   |                                  |              | oupordorno nigra                 |                   | •  |
|   | hybrid propellant rocket engines | _4  !f4      |                                  |                   | . jet provost aircraft                                       |
|   | hybrid propulsion                | jet lift     | a a ra di va a rai a ak =ti-ti:  |                   | monoplanes   |
|   | infrared suppression             | GS           | aerodynamic characteristics      |                   | jet provost aircraft   |
| × | jet nozzles                      |              | . lift                           |                   | single engine aircraft                                       |
|   | quiet engine program             |              | jet lift                         |                   | . jet provost aircraft                                       |
|   | reaction products                |              | aerodynamic forces               |                   | training aircraft  |
|   | reaction products                |              | acroaynamic forces               |                   |  |
|   | rocket engines                   |              | . lift                           |                   | . jet provost aircraft                                       |

RT

| RT ·                 | ∞ aircraft   |          | jet flow  | RT        | wind (meteorology)   |
|----------------------|--|----------|---|-----------|--|
| iot nun              | 300  |          | jet mixing flow   | lindivik  | target aircraft  |
| <b>jet pun</b><br>SN | (EXCLUDES DEVICES USING A LIQUID   |          | jet pumps   |           | drone vehicles   |
| OIN                  | OR GAS TO INDUCE MOVEMENT OF A   |          | plasma jets<br>sprayers   | 00        | . drone aircraft   |
| 00                   | GAS SUCH AS AIR EJECTORS)  |          | turbulent jets  |           | target drone aircraft  |
| GS                   | pumps<br>. jet pumps   |          | two dimensional jets  |           | Jindivik target aircraft                                     |
| RT                   | ejectors   |          | wall jets   |           | jet aircraft   |
| 13.1                 | fuel pumps   |          | •   |           | Jindivik target aircraft                                     |
|                      | ∞ jets   | Jetstre  | am aircraft   |           | monoplanes   |
|                      | ∞ pumping  | GS       | commercial aircraft   |           | . Jindivik target aircraft                                   |
|                      | turbine pumps  |          | . Jetstream aircraft  |           | pilotless aircraft . drone aircraft                          |
|                      | vacuum pumps   |          | Grumman aircraft  |           | target drone aircraft  |
| 1-4 04-              | i fi   |          | . Jetstream aircraft jet aircraft   |           | Jindivik target aircraft                                     |
|                      | r aircraft<br>C-140 aircraft   |          | . Jetstream aircraft  |           | targets  |
| USL                  | C-140 all Clait  |          | passenger aircraft  |           | . Jindivik target aircraft                                   |
| iet stre             | ams (meteorology)  |          | . Jetstream aircraft  | RT ∝      | ∘ aircraft   |
|                      | Strong bands of wind or winds in the   | RT o     | ∘ aircraft  |           | remotely piloted vehicles                                    |
| upper t              | roposphere or in the stratosphere, mov-                                      |          |   | iitter    |  |
|                      | general direction from west to east and                                      | jetties  |   | ,         | vibration  |
|                      | aching velocities of hundreds of miles an                                    | USE      | breakwaters   | OOL       | VIDIGIOII  |
|                      | sed for jet airstreams.  |          |   | jobs      |  |
| UF<br>GS             | jet airstreams<br>fluid flow   |          | systems   | USE       | tasks  |
| GS                   | . gas flow   | RT       | bailout   |           | Double Character   |
|                      | . air flow   |          | ejection  |           | Bank Observatory   |
|                      | air currents   |          | ejection seats  |           | A large radio telescope, located nea<br>ster, England.       |
|                      | jet streams (meteorology)  |          | escape (abandonment) escape systems   |           | observatories  |
|                      | mesoscale phenomena  |          | jettisoning   | 00        | . Jodrell Bank Observatory                                   |
|                      | . jet streams (meteorology)  | c        | systems   | RT        | astronomical observatories                                   |
|                      | wind (meteorology)   |          | wing tanks  |           | ground stations  |
|                      | . winds aloft  |          |   |           | radio telescopes   |
| DT                   | . jet streams (meteorology)  | jettison | ing   |           | tracking stations  |
| RT                   | air jets atmospheric circulation   | RT       | bailout   | 1.1       | and the second   |
|                      | circumpolar westerlies   |          | disposal  |           | on Island  |
|                      | clear air turbulence   |          | dumping   | GS        | landforms<br>. islands                                       |
|                      | Coanda effect  |          | ejection  |           | Pacific islands  |
|                      | fluid jets   |          | emptying escape (abandonment)   |           | Johnston Island  |
|                      | free boundaries  |          | expulsion   |           |  |
|                      | turbulent jets   |          | jettison systems  | joined v  |  |
|                      | zonal flow (meteorology)   |          | spilling  | GS        | airfoils   |
| iot thru             | ant.   |          |   |           | . wings  |
| jet thru             | The thrust of a fluid, especially as   | JF 101   | aircraft  | DT        | joined wings   |
|                      | ised from the thrust of a propeller. Used                                    | USE      | F-101 aircraft  | RT        | aircraft configurations dual wing configurations             |
|                      | tion jets.   |          |   |           | research aircraft  |
| UF                   | reaction jets  | JFET     |   |           | tandem wing aircraft   |
| GS                   | thrust   | DEF      | Junction field effect transistors in  |           | wing tips  |
|                      | jet thrust   |          | emiconductor channels of low conductiv-<br>he source and drain and in which these |           |  |
| RT                   | cold gas   | , ,      | s are reduced and cut off by the junction   | ∞ joining | (105 OF A 110 DE OBEOUEIO TERMIO                             |
|                      | convertible fan-shaft engines<br>high thrust                                 |          | n regions, which reduce the conductivity  | SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|                      | low thrust   |          | ise a voltage to be applied between the   |           | LISTED BELOW)  |
|                      | microthrust  |          | ectrodes. Used for junction field effect  | UF        | interconnection  |
|                      | rocket thrust  | transist | ors.  | DT        | linking  |
|                      | static thrust  | UF       | junction field effect transistors   | RT        | adhesion adhesive bonding                                    |
|                      | thrust loads   | GS       | electronic equipment  |           | assembling   |
|                      | variable thrust  |          | . solid state devices   |           | beam leads   |
|                      |  |          | semiconductor devices transistors   |           | binding  |
| jet van              |  |          | field effect transistors  |           | bonding  |
|                      | Vanes either fixed or movable, used in eam, especially in the jetstream of a |          | JFET  |           | brazing  |
|                      | for purposes of stability or control under                                   |          | junction transistors  |           | cold working   |
|                      | ons where external aerodynamic controls                                      |          | JFET  |           | couplings<br>crosslinking                                    |
| are ine              | fective. Also called blast vane.   |          | barrier layers  |           | fitting  |
| GS                   | control surfaces   | c        | ∍ junctions   |           | fusion (melting)   |
|                      | . guide vanes  |          |   |           | inertia bonding  |
|                      | jet vanes  | jigs     |   |           | joints (junctions)   |
|                      | vanes  | GS       | positioning devices (machinery)   |           | locking  |
|                      | . guide vanes<br><b>jet vanes</b>  | RT       | . <b>jigs</b><br>clamps   |           | mooring  |
| RT                   | airfoils   | 101      | fixtures  |           | mounting   |
|                      | thrust vector control  |          | holders   |           | positioning  |
|                      | wall jets  |          | mechanical devices  |           | retaining riveting   |
|                      |  |          | tools   |           | sealing  |
| jetavat              |  |          |   |           | sewing   |
| USE                  | guide vanes  | Jikiken  |   |           | soldering  |
| into                 |  | USE      | EXOS-B satellite  |           | splicing   |
| ∞ <b>jets</b><br>SN  | (USE OF A MORE SPECIFIC TERM IS  |          |   |           | ultrasonic soldering   |
| 311                  | RECOMMENDEDCONSULT THE TERMS   |          | ere balloons  |           | welding  |
| рΤ                   | LISTED BELOW)  | GS       | expandable structures . inflatable structures                                     |           | yokes  |
| RT                   | air jets<br>fluid jets   |          | balloons  | Joint F   | uropean Torus  |
|                      | 1010   |          | 241100110   |           |  |
|                      | •  |          | high altitude balloons  | GS        | nuclear reactors   |
|                      | free jets<br>gas jets  |          | high altitude balloons jimsphere balloons   | GS        | nuclear reactors<br>. tokamak devices                        |
|                      | free jets  |          |   | GS        |  |

|           | . tokamak devices                |            | tunnel junctions                      |                | . chemical fuels                          |
|-----------|----------------------------------|------------|---------------------------------------|----------------|---|
| DT        | Joint European Torus             | laaanha    | an tunnaling                          |                | hydrocarbon fuels                         |
| RT        | controlled fusion                |            | on tunneling                          |                | jet engine fuels                          |
|           | reactor technology               |            | d April 1999)                         |                | JP-7 jet fuel                             |
|           |                                  | USE        | Josephson effect                      |                | liquid fuels                              |
| ioints (a | anatomy)                         | loukow     | ski transformation                    |                | jet engine fuels                          |
| GS`       | anatomy                          | RT         | airfoil profiles                      | DT             | JP-7 jet fuel                             |
|           | . musculoskeletal system         | IXI        | complex variables                     | RT             | JP-8 jet fuel                             |
|           | joints (anatomy)                 |            | coordinate transformations            |                | kerosene                                  |
|           | elbow (anatomy)                  |            | Kutta-Joukowski condition             | ID 0 :e4       | fuel                                      |
|           | knee (anatomy)                   |            | Theodorsen transformation             | JP-8 jet<br>GS |   |
|           | wrist                            |            | Theodorsell transformation            | GS             |   |
| RT        | arthritis                        | Joule he   | pating                                |                | . chemical fuels                          |
|           | bones                            |            | ohmic dissipation                     |                | hydrocarbon fuels                         |
|           | connective tissue                | 002        | resistance heating                    |                | jet engine fuels<br><b>JP-8 jet fuel</b>  |
|           | flexors                          |            | resistance nearing                    |                |   |
|           | ligaments                        | Joule-T    | nomson effect                         |                | liquid fuels                              |
|           | shoulders                        |            | A change of temperature in a gas      |                | jet engine fuels<br><b>JP-8 jet fuel</b>  |
|           |                                  |            | ing Joule-Thomson expansion.          | RT             | JP-4 jet fuel                             |
|           |                                  | RT         | cryogenics                            | IXI            | JP-6 jet fuel                             |
|           | unctions)                        |            | effects                               |                | JP-7 jet fuel                             |
| UF        | connections                      |            | enthalpy                              |                | kerosene                                  |
|           | shanks                           |            | gas expansion                         |                | keroserie                                 |
| GS        | joints (junctions)               |            | gas flow                              | judgme         | nte                                       |
|           | bolted joints                    |            | kinetic theory                        | RT             | decision making                           |
|           | . bonded joints                  |            | ohmic dissipation                     | IXI            | decisions                                 |
|           | . butt joints                    |            | thermodynamic properties              |                | legal liability                           |
|           | . interference fit               |            | thermodynamics                        |                | penalties                                 |
|           | . lap joints                     |            | throttling                            |                | perialites                                |
|           | . metal joints                   |            | unounig                               | Judi-Da        | rt rocket                                 |
|           | soldered joints                  | iournal    | bearings                              | GS             | measuring instruments                     |
|           | welded joints                    | DEF        | Bearings that support the cylindrical | 00             | . sondes                                  |
|           | spot welds                       |            | of a shaft in rotating machinery.     |                | Judi-Dart rocket                          |
|           | . riveted joints                 |            | bearings                              |                | rocket vehicles                           |
|           | . scarf joints                   |            | . journal bearings                    |                | . sounding rockets                        |
| ь.        | seams (joints)                   | RT         | antifriction bearings                 |                | Judi-Dart rocket                          |
| RT        | adapters                         |            | foil bearings                         | RT             | rocket sounding                           |
|           | adhesives                        |            | Ton Dodinigo                          | 17.1           | Tooker sounding                           |
|           | balls                            | ∞ journals | 1                                     | juices         |   |
|           | barrier layers                   | SN         | (USE OF A MORE SPECIFIC TERM IS       | GS             | liquids                                   |
|           | bellows                          |            | RECOMMENDEDCONSULT THE TERMS          | 00             | . juices                                  |
|           | bonding                          | DT         | LISTED BELOW)                         | RT             | creatine                                  |
|           | clamped structures               | RT         | news media                            |                | ordanio                                   |
|           | closures                         |            | periodicals                           | jumpers        | 1   |
|           | connectors                       |            | shafts (machine elements)             |                | Short lengths of conductors used to       |
|           | corners                          |            | (-1                                   |                | e electrical circuits, usually temporary, |
|           | couplings                        |            | (documents)                           |                | terminals, or bypassing an existing       |
|           | fasteners                        | USE        | periodicals                           | circuit.       | tominate, or bypaconing an extension      |
|           | fillets                          | iournale   | (chafts)                              |                | conductors                                |
|           | fittings                         | journals   |                                       | 00             | . electrolytes                            |
|           | joining                          | USE        | shafts (machine elements)             |                | jumpers                                   |
| ~         | junctions                        | JP-4 jet   | fuel                                  | RT             | connectors                                |
|           | linkages                         | GS         |                                       | 111            | short circuits                            |
|           | metal bonding                    | 00         | . chemical fuels                      | 000            | terminals                                 |
|           | sleeves                          |            | hydrocarbon fuels                     |                | wire                                      |
|           | structural members               |            | jet engine fuels                      |                |   |
|           | swivels                          |            | JP-4 jet fuel                         | iunction       | n diodes                                  |
|           | unions (connectors)              |            | liquid fuels                          |                | electronic equipment                      |
|           |                                  |            | jet engine fuels                      |                | . diodes                                  |
| Jordan    |                                  |            | JP-4 jet fuel                         |                | semiconductor diodes                      |
| GS        | nations                          | рT         | JP-6 jet fuel                         |                | junction diodes                           |
| -         | . Jordan                         | 131        | JP-8 jet fuel                         |                | MIM diodes                                |
|           |                                  |            | RP-1 rocket propellants               |                | step recovery diodes                      |
|           |                                  |            | Tit Trooker propolitante              |                | . solid state devices                     |
| Jordan    | form                             | JP-5 jet   | fuel                                  |                | semiconductor devices                     |
| GS        | algebra                          | GS         |                                       |                | junction diodes                           |
|           | . vector spaces                  |            | . chemical fuels                      |                | MIM diodes                                |
|           | matrices (mathematics)           |            | hydrocarbon fuels                     |                | step recovery diodes                      |
|           | Jordan form                      |            | jet engine fuels                      | RT             | barrier layers                            |
| RT        | eigenvalues                      |            | JP-5 jet fuel                         |                | Barritt diodes                            |
|           | linear transformations           |            | . liquid fuels                        |                | germanium diodes                          |
|           | tensors                          |            | jet engine fuels                      |                | heterojunction devices                    |
|           |                                  |            | JP-5 jet fuel                         |                | heterojunctions                           |
| locoph    | son effect                       |            |                                       |                | tunnel diodes                             |
|           |                                  | JP-6 jet   | fuel                                  |                | varactor diodes                           |
| •         | ed April 1999)                   | GS         |                                       |                |   |
| UF        | Josephson tunneling              |            | . chemical fuels                      | junction       | field effect transistors                  |
| RT        | electron tunneling               |            | hydrocarbon fuels                     |                | JFET                                      |
|           | Josephson junctions              |            | jet engine fuels                      |                |   |
|           | SIS (superconductors)            |            | JP-6 jet fuel                         | junction       | transistors                               |
|           | superconductors (materials)      |            | . liquid fuels                        | •              | electronic equipment                      |
|           | superconductors (materials)      |            | jet engine fuels                      |                | . solid state devices                     |
|           |                                  |            | JP-6 jet fuel                         |                | semiconductor devices                     |
| Joseph    | son junctions                    | RT         | JP-4 jet fuel                         |                | transistors                               |
|           | high temperature superconductors |            | JP-8 jet fuel                         |                | junction transistors                      |
|           | Josephson effect                 |            | •                                     |                | JFET                                      |
|           | SIS (superconductors)            | JP-7 jet   | fuel                                  | RT             | barrier layers                            |
|           | squid (detectors)                |            | ed September 1995)                    |                | epitaxy                                   |
|           | superconductivity                |            | fuels                                 |                | ion implantation                          |
|           |                                  |            |                                       |                |   |

### junctions

∞ junctions . Jupiter (planet) . . . Galileo probe MBM junctions Adrastea . Galileo spacecraft phototransistors Amalthea Galileo project thyristors Amor asteroid Jupiter (planet) Apollo asteroids Voyager 1 spacecraft junctions Callisto Voyager 2 spacecraft (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Voyager 1977 mission Carme Elara Europa Jupiter project In semiconductor devices, regions of Galilean satellites GS programs transition between semiconducting regions of Galileo probe . NASA programs different electrical properties. Galileo spacecraft . . NASA space programs RT connectors Ganymede ... Jupiter project intersections . projects Himalia **JFET** ... Jupiter project joints (junctions) . space programs Jupiter atmosphere junction transistors Jupiter probes . . NASA space programs p-i-n junctions Jupiter red spot ... Jupiter project p-n junctions launch vehicles Jupiter rings p-n-p junctions Jupiter satellites p-n-p-n junctions Jupiter red spot Leda semiconductor devices gas giant planets Lysithea semiconductor junctions Jupiter (planet) Metis planetary surfaces Pasiphae jungles planets Shoemaker-Levy 9 comet UŠE tropical regions surface properties Sinope topography Juno 1 launch vehicle Thebe GS launch vehicles Trojan asteroids Jupiter rings Voyager 1 spacecraft . Juno launch vehicles DEF Ring structures around the planet Ju-Voyager 2 spacecraft . Juno 1 launch vehicle piter discovered on March 4, 1979 by Voyager 1. rocket vehicles Voyager 1977 mission GS celestial bodies . multistage rocket vehicles . planetary rings
. . Jupiter rings
Jupiter (planet) Jupiter atmosphere . . Juno launch vehicles GS environments . . Juno 1 launch vehicle . extraterrestrial environments Explorer satellites Jupiter atmosphere . . planetary environments Jupiter C rocket vehicle Jupiter satellites ... planetary atmospheres liquid propellant rocket engines moonlets planetary composition planetary structure Jupiter atmosphere sergeant missiles solid propellant rocket engines aerospace environments Galileo project geophysical fluid flow cells planetology Juno 2 launch vehicle · rings launch vehicles Jupiter (planet) Saturn rings . Juno launch vehicles Jupiter rings space exploration . Juno 2 launch vehicle planetary ionospheres Uranus rings rocket vehicles planetary meteorology Voyager 1 spacecraft . multistage rocket vehicles Jupiter C rocket vehicle . . Juno launch vehicles Jupiter satellites . . Juno 2 launch vehicle GS rocket vehicles DEF Any or all of the natural satellites sur-Explorer 11 satellite . multistage rocket vehicles rounding the planet Jupiter. Jupiter missile . Jupiter C rocket vehicle GS celestial bodies liquid propellant rocket engines Explorer satellites . natural satellites Pioneer 3 space probe Juno 1 launch vehicle . . Jupiter satellites Pioneer 4 space probe Jupiter missile . . . Adrastea Pioneer 6 space probe launch vehicles Amalthea liquid propellant rocket engines Pioneer 7 space probe ... Carme Pioneer 8 space probe sergeant missiles Flara Pioneer space probes solid propellant rocket engines ... Galilean satellites sergeant missiles Callisto Jupiter missile solid propellant rocket engines . . . . Europa GS missiles Ganymede Juno launch vehicles . ballistic missiles lo GS launch vehicles . . intermediate range ballistic missiles . . . Himalia . Juno launch vehicles ... Jupiter missile Leda .. Juno 1 launch vehicle . surface to surface missiles Lysithea . Juno 2 launch vehicle . . intermediate range ballistic missiles Metis rocket vehicles . . Jupiter missile ... Pasiphae . multistage rocket vehicles Juno 2 launch vehicle Sinope Jupiter C rocket vehicle . . Juno launch vehicles . . Thebe . . . Juno 1 launch vehicle liquid propellant rocket engines RT icy satellites . . Juno 2 launch vehicle Jupiter (planet) liquid propellant rocket engines Jupiter probes Jupiter rings solid propellant rocket engines interplanetary spacecraft solar system Jupiter probes ∞ vehicles . . Galileo probe JWST (observatory) Jupiter (planet) . Galileo spacecraft (added October 2003) GS celestial bodies unmanned spacecraft USE James Webb Space Telescope . planets . space probes

... Jupiter probes

. gas giant planets

| K band  |  | RT ∘     | ⇒ aircraft                                   | RT       | solid propellant rocket engines   |
|---------|--|----------|--|----------|---|
| USE     | extremely high frequencies   | Kaman    | UH-2A helicopter                             | Kappa    | rocket vehicles   |
|         |  |          | UH-2 helicopter                              |          | rocket vehicles   |
| K lines |  | 002      | on a noncopior                               |          | . multistage rocket vehicles  |
| GS      | spectra  | Kampud   | chea   |          | . Kappa rocket vehicles   |
|         | . radiation spectra electromagnetic spectra  |          | Cambodia                                     |          | Kappa 8 rocket vehicle Kappa 9 rocket vehicle   |
|         | line spectra   |          |  |          | . sounding rockets  |
|         | K lines  | Kansas   |  |          | Kappa rocket vehicles   |
| RT      | absorption spectra   | GS       | nations                                      |          | Kappa 8 rocket vehicle  |
|         | emission spectra   |          | . United States                              |          | Kappa 9 rocket vehicle  |
|         | H lines  | RT       | Kansas<br>Missouri River (US)                | RT       | solid propellant rocket engines   |
|         |  | 131      | Wild Colin (Co)                              | c        | ∞ vehicles  |
| K stars |  | kaolinit | e  | kappa-e  | epsilon turbulence model  |
| GS      | celestial bodies   | DEF      | A hydrous silicate of aluminum. It con-      | USE      | k-epsilon turbulence model  |
|         | . stars  |          | the principle mineral in kaolin.             |          |   |
|         | cool stars   | GS       | aluminum compounds . aluminum silicates      |          | omega turbulence model<br>led June 1997)  |
|         | K stars  |          | kaolinite                                    |          | k-omega turbulence model  |
| RT      | dwarf stars  |          | clays  |          | · ·   |
|         | giant stars  |          | . kaolinite                                  |          | (trademark)   |
|         | main sequence stars stellar spectra  |          | minerals                                     | GS       | nitrogen compounds<br>. amides  |
|         | supergiant stars   |          | . kaolinite<br>silicon compounds             |          | polyimides  |
|         |  |          | . silicates                                  |          | Kapton (trademark)  |
| KA band | 1  |          | aluminum silicates                           |          | polymeric films   |
|         | extremely high frequencies   |          | kaolinite                                    | DT       | . Kapton (trademark)  |
| 002     | on control of the con | RT       | aluminum oxides                              | KI 4     | ∞ films<br>plastics   |
|         |  |          | ion exchanging soils                         | c        | ∞ polymers  |
|         | ni theorem<br>theorems   |          | 30113  |          | . ,   |
| 00      | . Kakutani theorem   | kaon pi  | oduction                                     |          | en-Loeve expansion  |
| RT      | lattices (mathematics)   | GS       | particle production                          | GS       | data processing . Karhunen-Loeve expansion  |
|         | stochastic processes   | DT       | kaon production                              |          | expansion   |
|         | vector spaces  | RT       | kaons<br>particle accelerators               |          | Karhunen-Loeve expansion  |
|         |  |          | particle accelerators                        | RT       | principal components analysis   |
|         | i Basin (Africa)   | kaons    |  | Karl Fig | scher reagent   |
| GS      | landforms  | UF       | k-mesons                                     |          | chemical tests  |
|         | . structural basins Kalahari Basin (Africa)  | GS       | particles                                    |          | . chemical analysis   |
| RT      | Africa   |          | . elementary particles                       |          | Karl Fischer reagent  |
|         | deserts  |          | bosons<br>mesons                             | RI       | dioxides<br>methyl alcohol  |
|         | Republic of South Africa   |          | kaons  |          | pyridines   |
|         |  |          | hadrons                                      |          | quantitative analysis   |
| Kalman  | filters  |          | mesons                                       |          |   |
| GS      | linear filters   |          | kaons<br>. nuclear particles                 |          | 1 vortex street   |
| DT      | . Kalman filters   |          | bosons                                       |          | A double trail of vortices formed alter-<br>on both sides of a cylinder of similar body |
|         | electric filters   |          | mesons                                       |          | at right angles to its axis through a fluid,  |
|         | linear quadratic Gaussian control  |          | kaons  | the vor  | tices in one row rotating in a direction  |
|         | linear quadratic regulator   | RT       | baryons                                      |          | e to that of the other row. (After Theodore   |
|         | navigation aids  |          | charged particles<br>kaon production         |          | man, 1881-1963, Hungarian born Ameri-   |
|         | optimization   |          | pions  | can scie | vortex streets  |
|         | reduced order filters<br>state estimation  |          | Pomeranchuk theorem                          |          | . Karman vortex street  |
|         | State estimation   |          |  | RT       | aeolian tones   |
|         |  |          | resistance                                   |          | subsonic flow   |
|         | -Schmidt filtering<br>applications of mathematics  | RT∘      | · resistance                                 |          | Von Karman equation vorticity equations   |
| IX1 ~   | feedback control   | Kanoot   | a achondrite                                 |          | vortionly oquations   |
|         | inertial platforms   | GS       | celestial bodies                             |          | n-Bodewadt flow   |
|         | navigation instruments   |          | . meteorites                                 | GS       | fluid flow  |
|         | optimal control  |          | stony meteorites                             |          | . axisymmetric flow Karman-Bodewadt flow  |
|         | optimization remote control  |          | achondrites                                  |          | . parallel flow   |
|         | stochastic processes   |          | Kapoeta achondrite                           |          | three dimensional flow  |
|         | time series analysis   | Kanna    | 8 rocket vehicle                             |          | Karman-Bodewadt flow  |
|         |  |          | rocket vehicles                              |          | . viscous flow Karman-Bodewadt flow   |
| kamacit | e  |          | . multistage rocket vehicles                 |          | translational motion  |
|         | alloys   |          | Kappa rocket vehicles                        |          | . three dimensional motion  |
|         | . nickel alloys  |          | Kappa 8 rocket vehicle . sounding rockets    |          | three dimensional flow  |
|         | kamacite minerals  |          | Kappa rocket vehicles                        | RT       | Karman-Bodewadt flow rotating disks   |
|         | . kamacite   |          | Kappa 8 rocket vehicle                       | KI       | rotating disks  |
| RT      | iron alloys  | RT       | solid propellant rocket engines              |          |   |
|         | iron meteorites  |          |  | karst    |   |
|         | meteoritic composition   |          | 9 rocket vehicle                             | GS       | landforms   |
|         |  | GS       | rocket vehicles . multistage rocket vehicles |          | . structural basins karst   |
| Kaman   | aircraft   |          | Kappa rocket vehicles                        |          | sinkholes   |
|         | Kaman aircraft   |          | Kappa 9 rocket vehicle                       | RT       | caves   |
|         | . H-43 helicopter  |          | . sounding rockets                           |          | cavities  |
|         | . HH-43 helicopter   |          | Kappa rocket vehicles                        |          | kettles (geology)   |
|         | . UH-2 helicopter  |          | Kappa 9 rocket vehicle                       | c        | ∞ ridges  |

| rocks  | laws  | polarizers   |
|--|---|--|
|  | . Kepler laws   |  |
| Kawasaki aircraft  |   | ∞ Kerr effects   |
| RT ∞ aircraft  | k-epsilon turbulence model  | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  |
| Verelheten   | (added September 1988)  | LISTED BELOW)  |
| Kazakhstan   | UF kappa-epsilon turbulence model   | RT ∞ effects   |
| (added August 1993)<br>GS nations  | GS models   | electro-optical effect   |
| . Kazakhstan   | . mathematical models   | Kerr electrooptical effect   |
| RT Asia  | turbulence models   | Kerr magnetooptical effect   |
| IXI Asia   | k-epsilon turbulence model  | magnetic fields  |
| KC-130 aircraft  | RT closure law  |  |
| USE C-130 aircraft   | computational fluid dynamics  | Kerr electrooptical effect   |
|  | flow equations  | GS electromagnetic properties  |
| KC-135 aircraft  | k-omega turbulence model  | . optical properties   |
| USE C-135 aircraft   | turbulent boundary layer  | birefringence  |
|  | turbulent flow  | Kerr electrooptical effect   |
| keels  | I   | refraction   |
| GS hydrofoils  | keratins  | . birefringence  |
| _ keels  | GS biopolymers  | Kerr electrooptical effect   |
| RT boats   | . proteins<br><b>keratins</b>   | RT ∞ effects   |
| hulls (structures)   | organic compounds   | electromagnetic radiation electro-optics   |
| longerons  | ·   | ∞ Kerr effects   |
| ships  | . proteins<br><b>keratins</b>   | Kerr magnetooptical effect   |
| stabilizers (fluid dynamics)   | RT hair   | lasers   |
| KEL-F  | wool  | light modulation   |
|  | WOOI  | polarization (waves)   |
| GS halogen compounds   | keratitis   | polarization (waves)   |
| . fluorine compounds   | GS diseases   | Kerr magnetooptical effect   |
| fluoro compounds   | . eye diseases  | GS electromagnetic properties  |
| fluorine organic compounds fluoropolymers  | keratitis   | . Kerr magnetooptical effect   |
| KEL-F  | . infectious diseases   | RT ∞ effects   |
| organic compounds  | bacterial diseases  | Faraday effect   |
| . fluorine organic compounds   | keratitis   | ∞ Kerr effects   |
| fluorine organic compounds   | RT conjunctiva  | Kerr electrooptical effect   |
| KEL-F  | cornea  | magneto-optics   |
| RT copolymers  | comea   | optical properties   |
| ∞ polymers   | kernel functions  | polarization (waves)   |
| ∞ polymers   | GS analysis (mathematics)   | polarized light  |
| kelp   | . real variables  | 1  |
| USE seaweeds   | kernel functions  | Kestrel aircraft   |
|  | functions (mathematics)   | USE P-1127 aircraft  |
| Kelvin waves   | . kernel functions  |  |
| (added July 1994)  | RT Mellin transforms  | ketenes  |
| RT atmospheric circulation   | TTT Momit danserme  | RT ketones   |
| Coriolis effect  | kerogen   |  |
| gravity waves  | DEF Fossilized insoluble organic materi   | ketones  |
| ocean currents   | found in sedimentary rocks, usually shale   | DEI A class of organic compounds pos-  |
| planetary waves  | which can be converted to petroleum produc  | sessing a carbonyl group attached to two nydro-  |
| ∞ waves  | by distillation.  | carbon groups.   |
|  | GS organic compounds  | GS ketones   |
| Kelvin-Helmholtz instability   | . kerogen   | . acetone  |
| RT collisionless plasmas   | resources   | . acetylacetone  |
| flow stability   | . Earth resources   | . anthraquinones   |
|  | kerogen   | . camphor  |
| magnetohydrodynamic flow   | RT fuel oils  | . Nembutal (trademark)   |
| magnetohydrodynamic stability  | fuels   | . pentanone  |
| mass flow  | gasoline  | . trimethadione  |
| nonuniform plasmas   | greases   | RT ketenes   |
| plasmas (physics)  | hydrocarbon fuels   | PEEK   |
| superfluidity  | kerosene  | quinones   |
| Ventuelar  | lubricants  | kettles (geelegy)  |
| Kentucky   | oils  | kettles (geology)  DEF Steepsided, usually basin or  |
| GS nations   | petroleum products  | bowlshaped holes or depressions, commonly  |
| . United States  | shale oil   | without surface drainage, in glacial drift deposits  |
| <b>Kentucky</b><br>RT Ohio River (US)  |   | (especially outwash and kame fields). Kettles  |
|  | kerosene  | often contain lakes or swamps; formed by the   |
| Tennessee Valley (AL-KY-TN)  | GS fuels  | melting of large detached blocks of stagnant ice   |
| Kenya  | . chemical fuels  | (left behind by retreating glaciers) that had been   |
| GS nations   | liquid fuels  | wholly or partly buried by glacial drift. Kettles  |
| . Kenya  | kerosene  | range in depth from about a meter to as much as  |
| . Kenya  |   |  |
| RT Africa  |   | 13 km Thoreau's Walden Pond is an example  |
| RT Africa  |   | 13 km. Thoreau's Walden Pond is an example.  |
| RT Africa  Kepler laws   | RT antimisting fuels  | GS geology   |
| Kepler laws  | RT antimisting fuels diesel fuels   | GS geology<br>kettles (geology)  |
| Kepler laws DEF The three empirical laws governing the   | RT antimisting fuels<br>diesel fuels<br>fuel oils   | GS geology  kettles (geology) landforms  |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered   | RT antimisting fuels<br>diesel fuels<br>fuel oils<br>gasoline   | GS geology  kettles (geology) landforms structural basins  |
| Kepler laws DEF The three empirical laws governing the   | RT antimisting fuels<br>diesel fuels<br>fuel oils<br>gasoline<br>hydrocarbon fuels  | GS geology . kettles (geology) landforms . structural basins . kettles (geology)   |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered by Johannes Kepler (1571-1630). These are: (a) the orbits of the planets are ellipses, with the sun   | RT antimisting fuels diesel fuels fuel oils gasoline hydrocarbon fuels jet engine fuels   | GS geology . kettles (geology) landforms . structural basins . kettles (geology) RT caves  |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered by Johannes Kepler (1571-1630). These are: (a) the orbits of the planets are ellipses, with the sun at a common focus; (b) as a planet moves in its   | RT antimisting fuels diesel fuels fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel   | GS geology . kettles (geology) landforms . structural basins . kettles (geology) RT caves cavities                                     |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered by Johannes Kepler (1571-1630). These are: (a) the orbits of the planets are ellipses, with the sun at a common focus; (b) as a planet moves in its orbit, the line joining the planet and the sun  | RT antimisting fuels diesel fuels fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel   | GS geology . kettles (geology) landforms . structural basins . kettles (geology) RT caves cavities Earth resources                     |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered by Johannes Kepler (1571-1630). These are: (a) the orbits of the planets are ellipses, with the sun at a common focus; (b) as a planet moves in its orbit, the line joining the planet and the sun sweeps over equal areas in equal intervals of  | RT antimisting fuels diesel fuels fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen                                   | GS geology . kettles (geology) landforms . structural basins . kettles (geology) RT caves cavities Earth resources glacial drift       |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered by Johannes Kepler (1571-1630). These are: (a) the orbits of the planets are ellipses, with the sun at a common focus; (b) as a planet moves in its orbit, the line joining the planet and the sun sweeps over equal areas in equal intervals of time (also called law of equal areas); (c) the | RT antimisting fuels diesel fuels fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins                         | GS geology . kettles (geology) landforms . structural basins . kettles (geology) RT caves cavities Earth resources glacial drift karst |
| Kepler laws  DEF The three empirical laws governing the motions of the planets in their orbits, discovered by Johannes Kepler (1571-1630). These are: (a) the orbits of the planets are ellipses, with the sun at a common focus; (b) as a planet moves in its orbit, the line joining the planet and the sun sweeps over equal areas in equal intervals of  | RT antimisting fuels diesel fuels fuel oils gasoline hydrocarbon fuels jet engine fuels JP-7 jet fuel JP-8 jet fuel kerogen paraffins RP-1 rocket propellants | GS geology . kettles (geology) landforms . structural basins kettles (geology) RT caves cavities Earth resources glacial drift         |

RT camera shutters

∞ cells

∞ electric cells

polarized electromagnetic radiation

**Kevlar (trademark)**DEF A Dupont synthetic textile material, lightweight and nonflammable, and with high impact resistance.

GS classical mechanics space mechanics orbital mechanics Kepler laws

GS fibers telescopes virial theorem . reinforcing fibers . radio telescopes . . aramid fibers kinetic friction ... kilometer wave orbiting ... Kevlar (trademark) telescope GS friction kinetic friction . synthetic fibers . . aramid fibers . sliding friction coefficient of friction . . Kevlar (trademark) DEF Electromagnetic waves with wavelengths between 1,000 and 10,000 meters. dry friction . synthetic resins electromagnetic radiation friction measurement . . thermosetting resins kilometric waves static friction RT ∞ waves . . . furan resins .... polyamide resins kinetic heating kimberlite GS heating ..... Kevlar (trademark) biotite . kinetic heating resins USE . synthetic resins peridotite . . aerodynamic heating . . shock heating . . thermosetting resins . . . furan resins kinematic equations gas heating . . . . polyamide resins equations of motion magnetic pumping . kinetic equations plasma heating . . . . Kevlar (trademark) kinematic equations RT aramid fiber composites kinetic theory nonflammable materials RT ∞ equations The derivation of the bulk properties of synthetic fibers kinematics fluids from the properties of their constituent DEF The branch of mechanics dealing with molecules, their motions and interactions. keying keying the description of the motion of bodies or fluids GS kinetic theory GS without reference to the forces producing the . transport theory . frequency shift keying . phase shift keying
. binary phase shift keying ... Chapman-Enskog theory GS kinematics . . Eyring theory . body kinematics . mixing length flow theory . quadrature phase shift keying inverse kinematics BGK model Morse code RT acceleration (physics) binary fluids radio telegraphy ∞ dynamics Boltzmann distribution teleprinters Boltzmann transport equation equations of motion teletypewriters hodographs diffusion diffusion theory kinetics keys (islands) ∞ mechanics (physics) diffusion waves cays landforms UF microwave reflectometers dynamic pressure GS equations of state ∞ motion . islands free molecular flow nutation . keys (islands) gas transport velocity coral reefs gaseous self-diffusion Earth resources ideal gas
Joule-Thomson effect kinescopes island arcs USE picture tubes oceans Knudsen flow kinesthesia Krook equation kidney calculi GS perception Lorentz gas (added August 2004) . sensory perception mass flow USE kidney stones . kinesthesia Maxwell-Boltzmann density function proprioception mobility kidney diseases GS diseases momentum transfer kinesthesis . kidney diseases Morse potential USE proprioception . . kidney stones real gases . nephritis ∞ theories kinetic energy
DEF The energy which a body possesses RT cholera transport properties kinetics as a consequence of its motion. Used for mokidney stones mentum energy.

UF momentum energy (added August 2004) GS kinetics Calculi occurring in the kidney. Calculi electrokinetics kinetics too large to pass spontaneously range in size GS kinetic energy . kinetic energy chemical energy from 1 cm to the staghorn stones that occupy Newton second law the renal pelvis and calyces. RT . Newton Theory UF kidney calculi electron energy . reaction kinetics renal calculi ∞ energy variable mass systems equipartition theorem GS diseases acceleration (physics) Froude number . kidney diseases angular momentum kidney stones hydrodynamic ram effect body kinematics signs and symptoms internal energy ∞ dynamics Lagrange similarity hypothesis kidney stones fluid dynamics calcium phosphates Lagrangian function fluid mechanics genitourinary system particle energy  $\infty$  force potential energy gas dynamics kidneys renal function proton energy hydromechanics thermal energy ideal gas kidneys virial theorem kinematics anatomy ∞ mechanics (physics) . genitourinary system zero point energy momentum transfer . . kidneys motion aftereffects . . glomerulus kinetic equations newton kidney stones equations of motion particle collisions renal function kinetic equations ∞ physics hydrodynamic equations renin velocity . . . Burnett equations urine . . . Helmholtz vorticity equation urolithiasis kink bands (added March 1998) urology . kinematic equations **BBGKY** hierarchy buckling kilometer wave orbiting telescope Bethe-Salpeter equation compression loads edge dislocations BGK model radio equipment radio telescopes failure modes Einstein equations

∞ equations

partial differential equations

. . kilometer wave orbiting

telescope

fiber composites

microstructure

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|--|--|--|--|
|  | plastic deformation  | . gas cooled reactors  | . chemical analysis  |
|  | reinforcing fibers   | KIWI reactors  | quantitative analysis  |
|  | single crystals  | KIWI B reactors  | Kjeldahl method  |
| lei mlei mar   |  | KIWI B-1 Reactor   | RT ammonia   |
| kinking  | ! A:! 4000)  | KIWI B-4 Reactor   | ∞ methodology  |
| •  | ed April 1998)   | . nuclear power reactors   | nitrogen   |
| RT   | bending  | KIWI reactors  | titration  |
|  | buckling   | KIWI B reactors  |  |
|  | compression loads  | KIWI B-1 Reactor   | Klebsiella   |
|  | cracking (fracturing)  | KIWI B-4 Reactor   | GS microorganisms  |
|  | deformation  | <ul> <li>nuclear research and test reactors</li> </ul>   | . bacteria   |
|  | displacement   | KIWI reactors  | Klebsiella   |
|  | failure modes  | KIWI B reactors  |  |
|  | fiber composites   | KIWI B-1 Reactor   | Klein-Dunham potential   |
|  | folding  | KIWI B-4 Reactor   | RT ∞ potential   |
|  | heaving  |  | quantum theory   |
|  | twisting   | KIWI B-1 Reactor   |  |
|  | wrinkling  | GS nuclear electric power generation   | Klein-Gordon equation  |
|  | 3  | . nuclear power reactors   | GS wave equations  |
| kinoforr   | m  | KIWI reactors  | . Klein-Gordon equation  |
| GS   | display devices  | KIWI B reactors  | RT Dirac equation  |
|  | . kinoform   | KIWI B-1 Reactor   | ∞ equations  |
|  | imagery  | nuclear reactors   | •  |
|  | . kinoform   |  | klippen  |
| DT   | computer programming   | . gas cooled reactors KIWI reactors  | USE outliers (landforms)   |
| IXI  |  |  | ,  |
|  | holography   | KIWI B reactors  | klystrons  |
|  | wave front reconstruction  | KIWI B-1 Reactor   | DEF Electron tubes for converting direct   |
| Winelski.  | -# I   | . nuclear power reactors   | current energy into radio frequency energy by  |
| ∞ Kirchho  |  | KIWI reactors  | alternately speeding up and slowing down the   |
| SN   | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | KIWI B reactors  | electrons.   |
|  | LISTED BELOW)  | KIWI B-1 Reactor   | GS electron tubes  |
| RT   | Kirchhoff law of networks  | <ul> <li>nuclear research and test reactors</li> </ul>   |  |
|  | Kirchhoff law of radiation   | KIWI reactors  | . vacuum tubes   |
|  | Tallottion law of radiation  | KIWI B reactors  | microwave tubes  |
| Kirchhe  | off law of networks  | KIWI B-1 Reactor   | klystrons  |
|  | circuits   |  | microwave equipment  |
| KI   |  | KIWI B-4 Reactor   | . microwave tubes  |
|  | electric current   | GS nuclear electric power generation   | klystrons  |
|  | electric potential   | . nuclear power reactors   | RT amplifiers  |
|  | Kirchhoff law  | KIWI reactors  | catchers   |
| ~  | nets   | KIWI B reactors  | cavity resonators  |
|  | network analysis   |  | cyclotron resonance devices  |
|  | network synthesis  | KIWI B-4 Reactor   | electron bunching  |
|  |  | nuclear reactors   | electron cyclotron heating   |
|  | off law of radiation   | gas cooled reactors  | electrostatic generators   |
| DEF  | The radiation law which states that at a   | KIWI reactors  | magnetrons   |
| given te   | mperature the ratio of the emissivity to   | KIWI B reactors  | microwave oscillators  |
|  | orptivity for a given wavelength is the  | KIWI B-4 Reactor   | microwave oscillators  |
|  | r all bodies and is equal to the emissivity  | . nuclear power reactors   | k-mesons   |
|  |  | KIWI reactors  |  |
| or an ide  | ear black boov at that temberature and   | KIVI Teactors  |  |
|  | eal black body at that temperature and   | KIWI B reactors  | USE kaons  |
| wavelen  | igth.  |  | USE <b>kaons</b>   |
| wavelen  | gth.<br>laws   | KIWI B reactors<br>KIWI B-4 Reactor  | USE kaons knee (anatomy)   |
| wavelen  | gth.<br>laws<br>. radiation laws   | KIWI B reactors  | USE <b>kaons knee (anatomy)</b> GS anatomy   |
| wavelen<br>GS  | gth.<br>laws<br>. radiation laws<br>Kirchhoff law of radiation   | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors  | USE kaons knee (anatomy) GS anatomy . limbs (anatomy)  |
| wavelen<br>GS  | gth. laws radiation laws . <b>Kirchhoff law of radiation</b> absorptivity  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors . KIWI reactors KIWI B reactors  | USE kaons  knee (anatomy) GS anatomy . limbs (anatomy) leg (anatomy)   |
| wavelen<br>GS<br>RT  | gth. laws radiation laws . Kirchhoff law of radiation absorptivity black body radiation  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors  | USE kaons  knee (anatomy) GS anatomy . limbs (anatomy) leg (anatomy) knee (anatomy)  |
| wavelen<br>GS<br>RT  | gth. laws radiation laws . Kirchhoff law of radiation absorptivity black body radiation Kirchhoff law  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B reactor   | USE kaons  knee (anatomy) GS anatomy . limbs (anatomy) leg (anatomy) knee (anatomy) . musculoskeletal system   |
| wavelen<br>GS<br>RT  | gth. laws radiation laws . Kirchhoff law of radiation absorptivity black body radiation kirchhoff law radiation  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B reactor  KIWI reactors  | USE kaons  knee (anatomy) GS anatomy . limbs (anatomy) leg (anatomy) knee (anatomy) . musculoskeletal system joints (anatomy)  |
| wavelen<br>GS<br>RT  | gth. laws radiation laws . Kirchhoff law of radiation absorptivity black body radiation kirchhoff law radiation Stefan-Boltzmann law   | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI rocket reactors  | USE kaons  knee (anatomy) GS anatomy . limbs (anatomy) leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy)   |
| wavelen<br>GS<br>RT  | gth. laws radiation laws . Kirchhoff law of radiation absorptivity black body radiation kirchhoff law radiation  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI rocket reactors GS nuclear electric power generation   | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) . knee (anatomy) appendages  |
| wavelen<br>GS<br>RT  | gth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation Kirchhoff law radiation Stefan-Boltzmann law thermodynamics  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI reactors GS nuclear electric power generation . nuclear power reactors   | USE kaons  knee (anatomy) GS anatomy . limbs (anatomy) leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy)   |
| wavelen<br>GS<br>RT<br>«<br>«  | gth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation kirchhoff law radiation Stefan-Boltzmann law thermodynamics  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI rocket reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors  | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) . knee (anatomy) appendages  |
| wavelen<br>GS<br>RT<br>«<br>«  | gth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation Kirchhoff law radiation Stefan-Boltzmann law thermodynamics  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI reactors GS nuclear electric power generation nuclear power reactors KIWI reactors KIWI reactors KIWI B reactors   | Wee (anatomy) GS anatomy Ilimbs (anatomy) Ilimbs (anatomy |
| wavelen<br>GS<br>RT<br>«<br>«<br><i>Kirchhol</i><br>USE                            | igth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation blichhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI reactors KIWI B reactors KIWI B reactors   | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) . knee (anatomy) appendages . leg (anatomy) . knee (anatomy)   |
| wavelen<br>GS<br>RT<br>«<br>Kirchhol<br>USE<br>Kirchhol                            | igth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation kirchhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  ff-Huygens principle  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI reactors KIWI B-4 Reactor KIWI B-4 Reactor   | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) . knee (anatomy) appendages . leg (anatomy) . knee (anatomy)   |
| wavelen<br>GS<br>RT<br>«<br>Kirchhol<br>USE<br>Kirchhol                            | igth. Iaws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation Exirchhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  ff-Huygens principle diffraction   | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors  UF KIWI rocket reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B reactors KIWI B reactors KIWI B-1 Reactor nuclear reactors   | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy) appendages . leg (anatomy) knee (anatomy) RT femur  |
| wavelen<br>GS<br>RT<br>«<br>Kirchhol<br>USE<br>Kirchhol                            | igth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation kirchhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  ff-Huygens principle  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B Reactor  KIWI reactors  UF KIWI rocket reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B-1 Reactor KIWI B-1 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors gas cooled reactors  | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy) appendages . leg (anatomy) . knee (anatomy) RT femur  |
| wavelen<br>GS<br>RT<br>«<br>Kirchhol<br>USE<br>Kirchhol                            | igth. Iaws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation Exirchhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  ff-Huygens principle diffraction   | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B-4 Reactor  KIWI B-4 Reactor  KIWI reactors UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B-4 Reactor KIWI B-4 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors KIWI reactors KIWI B-4 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors gas cooled reactors KIWI reactors KIWI reactors  | Wee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy) appendages . leg (anatomy) . knee (anatomy) RT femur  |
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| wavelen<br>GS<br>RT<br>«  Kirchhol<br>USE  Kirchhol<br>USE                         | igth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation Exirchhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  ff-Huygens principle diffraction wave propagation  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B-4 Reactor  KIWI B-4 Reactor  KIWI reactors UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B-4 Reactor KIWI B-4 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors KIWI reactors KIWI B-4 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors gas cooled reactors KIWI reactors KIWI reactors  | knee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy) appendages . leg (anatomy) . knee (anatomy) RT femur  knight shift USE nuclear magnetic resonance  |
| wavelen<br>GS<br>RT<br>«  Kirchhol<br>USE  Kirchhol<br>USE                         | igth. Iaws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation be Kirchhoff law radiation Stefan-Boltzmann law thermodynamics  Ff-Helmholtz flow pipe flow  Ff-Huygens principle diffraction wave propagation  Iall effect diffusion theory  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors  UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI reactors KIWI B-1 Reactor KIWI B-4 Reactor nuclear reactors gas cooled reactors KIWI reactors KIWI reactors KIWI reactors KIWI Reactors KIWI Reactors KIWI Reactors KIWI Reactors   | knee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy) appendages . leg (anatomy) . knee (anatomy) femur  knight shift USE nuclear magnetic resonance  knobs RT handles levers  |
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| wavelen<br>GS<br>RT<br>Kirchhol<br>USE<br>Kirchhol<br>USE                          | igth. Iaws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation be Kirchhoff law radiation Stefan-Boltzmann law thermodynamics  Ff-Helmholtz flow pipe flow  Ff-Huygens principle diffraction wave propagation  Iall effect diffusion theory  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors  UF KIWI rocket reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B reactors KIWI B reactors KIWI B-1 Reactor nuclear reactors KIWI reactors KIWI reactors KIWI B-4 Reactor KIWI reactors KIWI reactors KIWI B-4 Reactor KIWI B-1 Reactor  | knee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) knee (anatomy) appendages . leg (anatomy) . knee (anatomy) femur  knight shift USE nuclear magnetic resonance  knobs RT handles levers  |
| wavelen<br>GS<br>RT<br>Kirchhol<br>USE<br>Kirchhol<br>USE                          | igth. Iaws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation be kirchhoff law radiation Stefan-Boltzmann law thermodynamics  Iff-Helmholtz flow pipe flow  Iff-Huygens principle diffraction wave propagation  Itall effect diffusion theory diffusion welding diffusivity effects   | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B-4 Reactor  KIWI reactors KIWI B-4 Reactor  KIWI reactors  UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI B-1 Reactor KIWI B-4 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors KIWI B-1 Reactor KIWI B-1 Reactor nuclear reactors KIWI B-4 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor  | knee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) appendages . leg (anatomy) . knee (anatomy) RT femur  knight shift USE nuclear magnetic resonance  knobs RT handles levers manual control  knockout mice  |
| wavelen<br>GS<br>RT<br>Kirchhol<br>USE<br>Kirchhol<br>USE                          | igth. laws . radiation laws . Kirchhoff law of radiation absorptivity black body radiation be kirchhoff law radiation Stefan-Boltzmann law thermodynamics  ff-Helmholtz flow pipe flow  ff-Huygens principle diffraction wave propagation  lall effect diffusion theory diffusion welding diffusivity  | KIWI B reactors KIWI B-4 Reactor . nuclear research and test reactors KIWI reactors KIWI B reactors KIWI B-4 Reactor  KIWI reactors  UF KIWI reactors GS nuclear electric power generation . nuclear power reactors KIWI reactors KIWI reactors KIWI B reactors KIWI B-1 Reactor nuclear reactors KIWI B-4 Reactor nuclear reactors KIWI reactors KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor KIWI B-1 Reactor  | knee (anatomy) GS anatomy . limbs (anatomy) . leg (anatomy) knee (anatomy) . musculoskeletal system . joints (anatomy) . knee (anatomy) appendages . leg (anatomy) . knee (anatomy) RT femur  knight shift USE nuclear magnetic resonance  knobs RT handles levers manual control  knockout mice (added April 2004)  |
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GS mechanical properties transition points transition temperature . hardness vacuum . . microhardness viscous flow ∞ Korea . Knoop hardness (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE T ERMS LISTED BELOW) SN hardness tests Knudsen gages nanoindentation Gages which measure pressure in RT North Korea terms of the net rate of transfer of momentum by knowledge South Korea molecules between two surfaces maintained at GS knowledge different temperatures and separated by a dis-. philosophy tance smaller than the mean free path of the gas Korteweg-Devries equation . paradoxes molecules. Used for Knudsen cells. The mathematical representation deaxioms Knudsen cells scribing the propagation of long waves of small documentation GS measuring instruments but finite amplitude. education . pressure gages wave equations learning . . vacuum gages Korteweg-Devries equation literature . . Knudsen gages  $RT \, \infty \, equations$ perception vacuum apparatus textbooks . vacuum gages training evaluation Kossel pattern . Knudsen gages GS distribution (property) ionization gages . radiation distribution knowledge based systems Mcleod gages (added April 1993) . . diffraction patterns Pirani gages information systems Kossel pattern pressure measurement knowledge based systems RT crystal lattices radiometers . expert systems artificial intelligence Knudsen number Kovar (trademark) computer techniques GS USE Knudsen flow alloys data structures Kovar (trademark) decision support systems knowledge bases (artificial knurling cobalt alloys RT aroovina intelligence) machining knowledge representation **KP** index metal cutting natural language processing GS ratios pilot support systems indexes (ratios) Kohoutek comet . KP index GS celestial bodies knowledge bases (artificial intelligence) Earth magnetosphere (added November 1988) . comets geomagnetic pulsations Facts, assumptions, beliefs, and heu-. Kohoutek comet geomagnetism Bessel-Bredichin theory ristics, used in dealing with a database to ∞ indexes achieve desired results such as a diagnosis, an ∞ coma magnetic disturbances interpretation, or a solution to a problem. radiation pressure magnetic properties data bases solar system GS magnetic variations . knowledge bases (artificial intelligence) Kolmogorov theory Kraft process (woodpulp) artificial intelligence (added July 1993) Woodpulping process in which sodium expert systems isotropic turbulence sulfate is used in the caustic soda pulp-digestion knowledge based systems Lagrange similarity hypothesis liquor. Also known as sulfate pulping or Kraft knowledge representation shear flow pulping. theories RT manufacturing knowledge discovery turbulent flow paper (material) (added April 2000) USE data mining vortices ∞ processes Kolmogorov-Smirnov test knowledge extraction Kramers-Kronig formula (added July 1993) (added April 2000) DEF The relationship between the attenuastatistical analysis USE data mining tion coefficient and the dispersion (frequency statistical tests dependent phase velocity) for viscoelastic . Kolmogorov-Smirnov test knowledge representation probability theory waves. DEF The use of symbolic data structures to represent knowledge so that a computer can RT ∞ dispersion statistical distributions ∞ formulas manipulate them. opacity k-omega turbulence model artificial intelligence RT spectrum analysis (added June 1997) belief networks kappa-omega turbulence model cognition GS models Krebs cycle expert systems . mathematical models cells (biology) RT hypertext . . turbulence models metabolism knowledge based systems . . k-omega turbulence model knowledge bases (artificial computational fluid dynamics intelligence) k-epsilon turbulence model natural language (computers) A yellow-brown glassy lunar mineral turbulent boundary layer enriched in potassium, rare earth elements, and turbulent flow Knudsen cells phosphate. USE Knudsen gages GS minerals Kondo effect . kreep Knudsen flow DEF Change in superconductivity characrocks Knudsen number teristics resulting from magnetic impurities in the . lunar rocks GS fluid flow compounds involved. . kreep . gas flow GS electrical properties geology . Knudsen flow . electrical resistivity lunar soil . internal flow . . superconductivity phosphates Kondo effect . . ducted flow potassium . . Knudsen flow transport properties rare earth elements BGK model . electrical resistivity boundary layer transition . . superconductivity free molecular flow . Kondo effect

RT alloys

∞ effects

nuclear spin

low temperature physics magnetic materials

kinetic theory

mean free path

molecular flow

pressure gradients rarefied gas dynamics

DEF A method of providing unbiased estimates of variables in regions where the avail-

able data exhibit spatial autocorrelation, and

these estimates are obtained in such a way that

they have minimum variance.

### **Krook equation**

RT variance (statistics) masers RT U.S.S.R. optical pumping Kronecker product kurtosis DEF In statistics, the extent to which a fre-USE orthogonality krypton isotopes GS chemical elements quency distribution is peaked or concentrated Krook equation . nuclides about the mean; it is sometimes defined as the RT ∞ equations . . isotopes ratio of the fourth moment of the distribution to hydrodynamics ... krypton isotopes the square of the second moment. kinetic theory . . . . krypton 85 GS distribution (property) shear flow . rare gases . frequency distribution shock wave profiles . . kurtosis . . krypton RT ∞ distribution ... krypton isotopes Krueger flaps . . . krypton 85 Fourier analysis USE leading edge flaps ∞ patterns gases . rare gases statistical distributions krypton . . krypton GS chemical elements ... krypton isotopes Kutta-Joukowski condition . rare gases . . . . krypton 85 GS conditions . . krypton . Kutta-Joukowski condition . . . krypton isotopes KS-3 aircraft
USE **S-3 aircraft** airfoil profiles . . . . krypton 85 boundary layer separation gases Joukowski transformation . rare gases K-T boundary . . krypton Kuwait USE Cretaceous-Tertiary boundary ... krypton isotopes nations . . . . krypton 85 . Kuwait KU band Asia USE superhigh frequencies krypton 85 GS chemical elements Kvant modules Kuiper Airborne Observatory . nuclides (added April 1995) (added June 1990) . . isotopes GS modules observatories . . . krypton isotopes . space station modules Kuiper Airborne Observatory .... krypton 85 . Kvant modules airborne equipment . . . radioactive isotopes Mir space station astronomical spectroscopy . . . . krypton 85 Russian Space Program C-141 aircraft . rare gases Soyuz spacecraft infrared astronomy . . krypton space station structures SOFIA (airborne observatory) ... krypton isotopes x ray telescopes .... krypton 85 Kuiper belt gases **KWIC** indexes (added June 1997) . rare gases GS classifications . . krypton asteroids . indexes (documentation) ... krypton isotopes comets . KWIC indexes dwarf planets .... krypton 85 RT ∞ indexes New Horizons mission thesauri krypton fluoride lasers Oort cloud DEF Rare gas halide ultraviolet stimulated Quaoar Kyokko satellite emission devices in which krypton fluoride is the solar system USE **EXOS-A satellite** solar system evolution active lasing medium. GS stimulated emission devices trans-Neptunian objects Kyrgyzstan . lasers (added August 1993) . . gas lasers Kurile Islands nations ... rare gas-halide lasers GS landforms . Kyrgyzstan . . . krypton fluoride lasers . islands RT Asia coherent electromagnetic radiation . . Pacific islands lasing

... Kurile Islands

| L band    |  |               | nuclear research  | RT        | metal coatings   |
|-----------|--|---------------|---|-----------|--|
| USE       | ultrahigh frequencies                      |               | research facilities   |           | primers (coatings)   |
|           |  |               | SAIL project  |           | protective coatings  |
| L-28 aire |  |               | test facilities   |           | sprayed coatings   |
| USE       | U-10 aircraft                              | 0             | ∘ tests   |           |  |
| 1 00 -:-  |  |               |   | lactates  |  |
| L-29 air  |  |               | ory astrophysics  | GS        | esters   |
| USE       | L-29 jet trainer                           | •             | ed June 2004)   |           | . lactates   |
| L-29 jet  | trainer                                    | DEF           | Investigation of the formation, proper-   | lactic a  | cid  |
| UF        | Delfin aircraft                            |               | d interactions of interstellar matter con-<br>through laboratory experimentation. | GS        | acids  |
| ٥.        | L-29 aircraft                              |               | astrophysics  | 00        | . carboxylic acids   |
|           | Omnipol L-29 aircraft                      | 93            | . laboratory astrophysics   |           | lactic acid  |
| GS        | jet aircraft                               | RT            | astronomical spectroscopy   |           | organic compounds  |
|           | . L-29 jet trainer                         | 111           | computational astrophysics  |           | . carboxylic acids   |
|           | monoplanes                                 |               | cosmochemistry  |           | lactic acid  |
|           | L-29 jet trainer                           |               | interstellar chemistry  |           |  |
|           | single engine aircraft                     |               | interstellar matter   | lactose   |  |
|           | . L-29 jet trainer                         |               | molecular clouds  | GS        | organic compounds  |
|           | tilt wing aircraft                         |               |   |           | . carbohydrates  |
|           | L-29 jet trainer                           |               | ory equipment   |           | sugars   |
|           | training aircraft                          | GS            | laboratory equipment  |           | lactose  |
|           | L-29 jet trainer                           |               | . image furnaces  |           |  |
|           | V/STOL aircraft                            |               | . syringes  | lacunas   |  |
|           | . L-29 jet trainer                         | RT            | ampoules  | RT        | lichens  |
|           |  | c             | ∘ equipment   |           | plants (botany)  |
| L-1011 a  |  |               | glassware   |           |  |
| GS        | commercial aircraft                        |               | measuring instruments   | ladders   |  |
|           | . L-1011 aircraft                          |               | pipettes  | RT        | escalators   |
|           | jet aircraft                               |               |   |           | stairways  |
|           | . L-1011 aircraft                          | Labrad        |   | log (dol  | out)   |
|           | Lockheed aircraft . L-1011 aircraft        | RT            | Canada  | lag (dela | time lag   |
|           |  | مراب دها ما   | LL.   | USL       | time lag   |
|           | passenger aircraft . L-1011 aircraft       | labyrin<br>GS | anatomy   | LAGEO     | S (satellite)  |
|           | transport aircraft                         | 93            | . sense organs  | UF        | •  |
|           | . L-1011 aircraft                          |               | ear   | GS        | artificial satellites  |
| RT ∝      | aircraft                                   |               | labyrinth   |           | . passive satellites   |
| 101       | turbofan engines                           |               | cochlea   |           | . LAGEOS (satellite)   |
|           | talbolan oliginos                          |               | Corti organ   | RT        | laser range finders  |
| L-2000 a  | aircraft                                   |               | otolith organs  |           | retroreflection  |
| UF        | Lockheed L-2000 aircraft                   |               | semicircular canals   |           | satellite laser ranging  |
| GS        | jet aircraft                               |               | vestibules  |           |  |
|           | . L-2000 aircraft                          |               |   | lagoons   |  |
|           | Lockheed aircraft                          | labyrin       | th seals  | DEF       | Shallow stretches of seawater, such as   |
|           | . L-2000 aircraft                          | DEF           | Minimum leakage seals that offer re-  |           | channels, bays (topographic features),   |
|           | passenger aircraft                         | sistance      | e to fluid flow while providing radial or   |           | rater lakes, near or communicating with  |
|           | . L-2000 aircraft                          | axial cle     | earance.  |           | nd partly or completely separated from   |
|           | supersonic aircraft                        | GS            | seals (stoppers)  |           | / low, narrow, elongated strips of land,   |
|           | . supersonic transports                    |               | . labyrinth seals   |           | reefs, barrier islands, sandbanks, or  |
|           | L-2000 aircraft                            | RT            | fluid flow  |           | agoons are often used to describe sheets   |
|           | transport aircraft                         |               | gaskets   |           | r between offshore coral reefs and the   |
| БТ        | . L-2000 aircraft                          |               | glands (seals)  |           | d. They often extend roughly parallel to   |
| KI∝       | aircraft                                   |               | hermetic seals  |           | st and are little affected by tides. La-<br>are also considered shallow freshwater |
| loboling  | (marking)                                  |               | leakage   |           | or lakes near or communicating with  |
|           | marking                                    |               | O ring seals  |           | akes or rivers.  |
| UUL       | marking                                    |               | packings (seals)  |           | landforms  |
| labor     |  |               | plugs<br>pump seals   | 00        | . lagoons  |
| RT        | manpower                                   |               | rotor speed   | RT        | atolls   |
|           | mediation                                  |               | Totol speed   |           | bars (landforms)   |
|           | personnel selection                        | labyrin       | thectomy  |           | beaches  |
|           | ,  | GS            | medical science   |           | coasts   |
| laborato  | ories                                      |               | . surgery   |           | dunes  |
| GS        | laboratories                               |               | labyrinthectomy   |           | inlets (topography)  |
|           | . engine testing laboratories              | RT            | ear   |           | island arcs  |
|           | . environmental laboratories               |               |   |           | islands  |
|           | . human factors laboratories               |               | E (experiment)  |           | lakes  |
|           | . lunar laboratories                       | DEF           | A NASA balloonborne experiment con-   |           | ponds  |
|           | lunar receiving laboratory                 | ducted        | from a balloon platform carried by a  |           | reservoirs   |
|           | . lunar mobile laboratories                |               | over 400 feet in diameter. The acronym  |           | topography   |
|           | . space laboratories                       |               | for the Lower Atmospheric Composition   |           |  |
|           | Advanced Technology Laboratory             |               | mperature Experiment. The experiment  |           | ge coordinates   |
|           | Atmospheric Cloud Physics Lab              |               | nducted in 1974. Used for Lower Atmo-   |           | Systems of coordinates by which fluid  |
|           | (Spacelab)                                 |               | Composition Experiment.   |           | are identified for all times by assigning  |
|           | Earth Viewing Applications                 | UF            | Lower Atmospheric Composition   |           | pordinates which do not vary with time.  |
|           | Laboratory Long Duration Exposure Facility | D.T.          | Experiment  |           | es of such coordinates are: (a) the val-   |
|           | manned orbital laboratories                | RT            | atmospheric composition   |           | any properties of the fluid conserved in ion; or (b) more generally, the positions |
|           | Columbus module                            |               | atmospheric temperature   |           | e of the parcels at some arbitrarily se-   |
|           | Destiny Laboratory Module                  |               | lower atmosphere  |           | noment. Subsequent positions in space  |
|           | Skylab 1                                   | LACE (        | engine)   |           | arcels are then the dependent variables,   |
|           | Skylab 1<br>Skylab 2                       | USE (         | engine)<br>liquid air cycle engines   |           | s of time and of the Lagrange coordi-  |
|           | Skylab 2                                   | OOL           | ngala ali oyolo oligilies   |           | Also called material coordinates.  |
|           | Skylab 4                                   | lacque        | 'S  |           | coordinates  |
|           | Spacelab                                   | GS            | coatings  |           | . Lagrange coordinates   |
|           | . underwater research laboratories         |               | . lacquers  | RT        | classical mechanics  |
| RT        | experiment design                          |               | finishes  |           | hydrodynamics  |
| -         | experimentation                            |               | . lacquers  |           | Lagrangian function  |
|           |  |               | - · · · · · · · · · · · · · · · · · · ·   |           |  |

librational motion water bayous beaches water management Lagrange equations of motion coasts USE Euler-Lagrange equation Earth hydrosphere Ice formed on lakes, regardless of ob-DFF eutrophication Lagrange multipliers served location; it is usually freshwater ice. inland waters chiral dynamics GS kettles (geology) differential equations . lake ice lagoons isoperimetric problem . ice floes Lake Champlain Basin (NY-VT) Lagrangian function bay ice lake ice multipliers ice formation limnology operations research lakes playas optimization land ice ponds sea ice regional planning Lagrange similarity hypothesis water reservoirs GS hypotheses river basins Lagrange similarity hypothesis Lake Michigan shoals theorems lakes shorelines . similarity theorem Great Lakes (North America) springs (water) . Lagrange similarity hypothesis Lake Michigan straits energy dissipation energy transfer hydrology surface water rivers thermal pollution kinetic energy streams water circulation Kolmogorov theory water water color turbulent flow water management water depth water resources Lagrangian Lake Ontario waterways USE Lagrangian function GS . Great Lakes (North America) Lallemand cameras Lagrangian equilibrium points . Lake Ontario GS optical equipment gravitational effects hydrology . cameras Lagrangian equilibrium points rivers Lallemand cameras celestial mechanics streams photographic equipment gravitational fields water . cameras orbital mechanics water management . Lallemand cameras Trojan asteroids astronomical photography Lake Pontchartrain (LA) electro-optical photography Lagrangian function GS lakes image converters (added April 1993) Lake Pontchartrain (LA) image intensifiers Lagrangian RT Louisiana image transducers GS functions (mathematics) light amplifiers Lagrangian function Lake Superior spectroscopy Euler-Lagrange equation lakes GS television cameras kinetic energy Great Lakes (North America) Lagrange coordinates Lake Superior Lamb waves Lagrange multipliers RT hydrology Waves that propagate within the thickpotential energy rivers ness of a thin plate, and that can only be streams generated at particular values of angle of inci-Laguerre functions water dence, frequency, and plate thickness. The ve-GS analysis (mathematics) water management locity of the wave is dependent on the mode and . complex variables the product of plate thickness and frequency. . Laguerre functions Lake Tahoe (CA-NV) GS elastic waves functions (mathematics) lakes GS . sound waves Laguerre functions Lake Tahoe (CA-NV) . . Lamb waves RT orthogonal functions California acoustic properties Nevada acoustics LA-ICP-MS (spectrometry) Sturm-Liouville theory (added March 2001) Lake Texoma (OK-TX) ultrasonic tests USE inductively coupled plasma mass GS lakes spectrometry Lake Texoma (OK-TX) Lambda rocket vehicles limnology lake beds GS rocket vehicles USE beds (geology) Oklahoma . multistage rocket vehicles reservoirs . . Lambda rocket vehicles Lake Champlain Basin (NY-VT) texas . sounding rockets vadose water . Lambda rocket vehicles . structural basins RT solid propellant rocket engines . Lake Champlain Basin (NY-VT) lakes ∞ vehicles Inland bodies of standing water occu-Canada pying depressions in the Earth's surface, gener-Lambda Tauri stars New York ally of appreciable size (larger than a pond) and GS celestial bodies too deep to permit vegetation (excluding sub-Vermont . stars aqueous vegetation) to take root completely . . double stars across the expanse of water; the water may be . . . binary stars Lake Erie fresh or saline. The term includes expanded . . . . eclipsing binary stars GS parts of rivers, reservoirs behind dams, or lake . Great Lakes (North America) ..... Lambda Tauri stars . Lake Erie basins intermittently or formerly covered by wa-. . variable stars RT hydrology ... Lambda Tauri stars GS rivers . Great Lakes (North America) streams Lambert law . . Lake Erie USE Bouguer law water water management . . Lake Huron . . Lake Michigan Lambert surface . . Lake Ontario Lake Huron RT reflection GS lakes . Lake Superior ∞ surface geometry Great Lakes (North America) Great Salt Lake (UT) ∞ surfaces . Lake Huron . Lake Pontchartrain (LA) hydrology Lake Tahoe (CA-NV) RT Lame functions Lake Texoma (OK-TX) functions (mathematics) rivers GS Saginaw Bay (MI) Pyramid Lake (NV) Lame functions

aquifers

RT boundary value problems

streams

differential equations forced convection fabrics free convection fiber composites Lame wave equations gas flow filament winding GS analysis (mathematics) gas streams ∞ films . real variables inviscid flow formica . . differential equations liquid flow glass fiber reinforced plastics ... Lame wave equations low Reynolds number honeycomb structures wave equations mass flow hybrid composites Lame wave equations multiphase flow interlaminar stress RT acoustics interlayers Newton pressure law elastic waves open channel flow ∞ layers ∞ equations orifice flow lay-up Sturm-Liouville theory parallel flow magnetic cores ∞ materials wave propagation pipe flow Prandtl-Meyer expansion matrix materials lamella Rayleigh-Benard convection metal bonding metallizing RT bones Reynolds number Roshko prediction multilayer insulation lamella (metallurgy) single-phase flow netting (materials/structures) Crystalline materials whose grains are steady flow steam flow papers plating in the form of thin sheets. aluminum alloys Tollmien-Schlichting waves ply orientation copper alloys transition layers polymer matrix composites crystallography turbulent flow prepregs reinforced plastics eutectic alloys two phase flow microstructure reinforced plates uniform flow unsteady flow sandwich structures lamina viscous drag ∞ sheets USE layers viscous flow stacking sequence (composite wedge flow materials) laminar boundary layer X-21A aircraft substrates DEF In fluid flow, layer next to the fixed thermosetting resins boundary. The fluid velocity is zero at the boundlaminar flow airfoils veneers ary layer but the molecular viscous stress is GS airfoils large because the velocity gradient normal to the wall is large. Used for laminar boundary laminar flow airfoils laminations laminates USF layer separation and laminar flow control. laminar flow control laminar boundary layer separation USE boundary layer control lamps laminar flow control laminar boundary layer USE **luminaires** boundary layers LAMPS program . laminar boundary layer laminar heat transfer boundary layer combustion Light Airborne Multipurpose USE GS transmission boundary layer transition . heat transmission System compressible boundary layer . . heat transfer Goertler instability . . laminar heat transfer LAN (computer networks) hypersonic boundary layer USE local area networks RT conductive heat transfer incompressible boundary layer convective heat transfer interactional aerodynamics Lance missile thermohydraulics isothermal layers GS missiles turbulent heat transfer Pohlhausen method . surface to surface missiles supersonic boundary lavers . Lance missile laminar jets thermal boundary layer liquid propellant rocket engines Trailblazer 1 reentry vehicle USE jet flow three dimensional boundary layer laminar flow turbulent boundary layer TX-77 engine two dimensional boundary layer laminar mixing land X-21 aircraft GS mixing DEF In a general sense, that part of the Earth's surface that stands above mean sea laminar mixing laminar boundary layer separation RT fluid injection boundary layer separation level. The inclusion of Antarctica's permanent gas mixtures laminar boundary layer mixing layers (fluids) ice in calculating the land surface of the Earth is controversial. turbulent mixing laminar flames GS land . Allegheny Plateau (US) USE flames laminar wakes laminar flow GS wakes arid lands laminar wakes badlands laminar flow RT aircraft wakes barren land Cascade Range (CA-OR-WA) Colorado Plateau (US) DEF In fluid flow, a smooth flow in which no turbulent wakes crossflow of fluid particles occurs between adjacent stream lines; hence, a flow conceived as laminated materials . deserts made up of layers -- commonly distinguished USE laminates . . Gobi desert from turbulent flow. Used for laminar flames, Libyan desert laminar jets, Poiseuille flow, and streamline flow. laminates Mojave Desert (CA) laminar flames DEF Products made by bonding together Sahara Desert (Africa) laminar jets two or more layers of material or materials. Used Poiseuille flow for laminated materials, laminations, and multi-. grasslands streamline flow layer structures. . . Llanos Orientales (Colombia) fluid flow laminated materials . isthmuses . laminar flow laminations . parks . . Blasius flow multilayer structures . . national parks . . . Yellowstone National Park . . Hartmann flow composite structures

. laminates

. plywood

bonding boron-epoxy composites

clamped structures

debonding (materials)

. . Boral

cladding

coatings composite materials

. stratified flow

atmospheric turbulence

Falkner-Skan equation

flow characteristics

boundary layer transition

RT aerodynamics

capillary flow critical flow

flow geometry flow stability

(ID-MT-WY)

. . Llanos Orientales (Colombia)

. plains

. . coastal plains

. . flood plains

. . pampas . . playas

. . tundra

. wetlands

. rangelands

|   | marshlands   | suburban areas   | A 70100   |
|---|--|--|---|
| DT  |  |  | Azores  |
| RT  | capes (landforms)  | urban development  | Bahrain   |
|   | desertification  | urban planning   | Bermuda   |
|   | desertline   | urban research   | Canary Islands  |
|   | peninsulas   |  | Cyprus  |
|   | residential areas  | Landau damping   | Greenland   |
|   | rural areas  | DEF The damping of a space charge wave   | Hawaii  |
|   | rural land use   | by electrons which move at the phase velocity of   |   |
|   | sites  | the wave and gain energy transferred from the  | Iceland   |
|   | sod  | wave.  | Indonesia   |
|   | soils  | GS damping   | Ireland   |
|   | topography   | . Landau damping   | keys (islands)  |
|   | topograpity  | RT electron plasma   | Long Island (NY)  |
| land ice                                      |  | Landau factor  | Madagascar  |
| DEF   |  |  | Maldive Islands   |
|   | Any ice masses formed from snow,   | magnetic damping   | Malta   |
|   | other freshwater on land, as ice shelves   | phase velocity   | Mauritius   |
|   | ers, even though they may be floating in   | plasma waves   |   |
|   | icebergs.  | space charge   | Merritt Island (FL)   |
| UF  | ice shelves  |  | Newfoundland  |
| GS  | ice  | Landau factor  | nunataks  |
|   | . land ice   | RT atomic energy levels  | Pacific islands   |
|   | resources  | atomic theory  | Guam  |
|   | . Earth resources  | Landau damping   | Japan   |
|   | land ice   | plasmas (physics)  | Johnston Island   |
| RT  | Antarctic regions  | superconductivity  | Kurile Islands  |
| 111   | glacial drift  | daporoonduotivity  | New Guinea (island)   |
|   |  | Landau-Ginzburg equations  | New Zealand   |
|   | glaciers   | RT ∞ equations   | Philippines   |
|   | icebergs   | quantum electrodynamics  | Samoa   |
|   | lake ice   | , ,  | Prince Edward Island  |
|   | sea ice  | superconductivity  |   |
|   |  |  | Seychelles  |
|   | anagement  | landfills  | Sicily  |
| GS  | management   | DEF Disposal sites for solid wastes which  | Tasmania  |
|   | . resources management   | are buried in layers of earth.   | Wallops Island  |
|   | land management  | RT industrial wastes   | West Indies   |
| RT  | environment management   | land use   | Antigua and Barbuda   |
|   | regional planning  | methane  | Bahamas   |
|   | rural land use   | solid wastes   | Barbados  |
|   |  | waste disposal   | Cuba  |
|   | urban planning   | waste management   | Dominica  |
|   | wilderness   | •  | Grenada   |
|   | 1.21 4 - 1124 2  | waste utilization  |   |
|   | obile satellite service  | water pollution  | Guadeloupe  |
|   | A proposed radio relay satellite system  | L W  | Haiti   |
|   | ng thinly populated or large geographi-  | landforms  | Jamaica   |
| cal area                                      | S.   | DEF Any physical recognizable forms or   | Lesser Antilles   |
|   | makila aammuniaatian ayatama   | features of the Earth's surface, having charac-  | Martinique  |
| GS  | mobile communication systems   |  |   |
| GS  | . land mobile satellite service  | teristic shapes, and produced by natural causes.   | Puerto Rico   |
| GS<br>RT                                      |  |  |   |
|   | . land mobile satellite service communication satellites   | teristic shapes, and produced by natural causes.   | Puerto Rico<br>Trinidad and Tobago  |
|   | . land mobile satellite service communication satellites ground stations   | teristic shapes, and produced by natural causes.<br>Landforms include major forms such a plains,<br>plateaus, and mountains and minor forms such   | Puerto Rico<br>Trinidad and Tobago<br>Virgin Islands  |
|   | . land mobile satellite service<br>communication satellites<br>ground stations<br>MSAT   | teristic shapes, and produced by natural causes.  Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes.   | Puerto Rico<br>Trinidad and Tobago<br>Virgin Islands<br>. isthmuses   |
|   | . land mobile satellite service communication satellites ground stations   | teristic shapes, and produced by natural causes.<br>Landforms include major forms such a plains,<br>plateaus, and mountains and minor forms such<br>as hills, valleys, slopes, glacial drift, and dunes.<br>Taken together, landforms make up the surface  | Puerto Rico<br>Trinidad and Tobago<br>Virgin Islands<br>. isthmuses<br>. lagoons  |
| RT  | . land mobile satellite service<br>communication satellites<br>ground stations<br>MSAT<br>radio communication  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth.  | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia)  |
| RT  | . land mobile satellite service communication satellites ground stations MSAT radio communication  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms   | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs  |
| RT<br>land su<br>(add                         | . land mobile satellite service communication satellites ground stations MSAT radio communication  rface temperature ad February 1993)   | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos   | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs . mountains  |
| RT<br>land su<br>(add                         | . land mobile satellite service communication satellites ground stations MSAT radio communication  rface temperature ad February 1993) surface properties  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos . barriers (landforms)  | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs . mountains Adirondack Mountains (NY)  |
| RT<br>land su<br>(add                         | I land mobile satellite service communication satellites ground stations MSAT radio communication  rface temperature ad February 1993) surface properties . surface temperature  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos . barriers (landforms) . Outer Banks (NC)   | Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses .lagoons . Magdalena-Cauca Valley (Colombia) .massifs .mountains . Adirondack Mountains (NY) . Alps Mountains (Europe)  |
| RT<br>land su<br>(add                         | . land mobile satellite service communication satellites ground stations MSAT radio communication rface temperature ed February 1993) surface properties . surface temperature land surface temperature  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos . barriers (landforms) . Outer Banks (NC) . reefs   | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs . mountains Adirondack Mountains (NY) Alps Mountains (Europe) Andes Mountains (South America)  |
| RT<br>land su<br>(add                         | I land mobile satellite service communication satellites ground stations MSAT radio communication  rface temperature ad February 1993) surface properties . surface temperature  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos . barriers (landforms) . Outer Banks (NC) . reefs . bars (landforms)  | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs . mountains Adirondack Mountains (NY) Alps Mountains (Europe) . Andes Mountains (South America) Appalachian Mountains (North   |
| RT<br>land su<br>(add                         | . land mobile satellite service communication satellites ground stations MSAT radio communication rface temperature ed February 1993) surface properties . surface temperature land surface temperature  | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos . barriers (landforms) . Outer Banks (NC) . reefs   | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs . mountains Adirondack Mountains (NY) Alps Mountains (Europe) Andes Mountains (South America) . Appalachian Mountains (North America)  |
| RT<br>land su<br>(add                         | . land mobile satellite service communication satellites ground stations MSAT radio communication   rface temperature end February 1993) surface properties . surface temperature land surface temperature temperature   | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth. GS landforms . arroyos . barriers (landforms) . Outer Banks (NC) . reefs . bars (landforms)  | Puerto Rico Trinidad and Tobago Virgin Islands . isthmuses . lagoons . Magdalena-Cauca Valley (Colombia) . massifs . mountains Adirondack Mountains (NY) Alps Mountains (Europe) . Andes Mountains (South America) Appalachian Mountains (North   |
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| Iand su (adde GS)  RT  Iand us GS  RT         | . land mobile satellite service communication satellites ground stations MSAT radio communication  rface temperature ed February 1993) surface properties . surface temperature . land surface temperature temperature . surface temperature . land surface temperature air land interactions atmospheric temperature sea surface temperature el land use . rural land use AgRISTARS project airport planning barren land change detection conservation desertification development Earth resources economic development energy policy environment management exploitation facilities farmlands forest management grasslands industrial areas landfills leasing residential areas                      | teristic shapes, and produced by natural causes. Landforms include major forms such a plains, plateaus, and mountains and minor forms such as hills, valleys, slopes, glacial drift, and dunes. Taken together, landforms make up the surface configuration of the Earth.  GS landforms  | Puerto Rico Trinidad and Tobago Virgin Islands .isthmuses .lagoons . Magdalena-Cauca Valley (Colombia) .massifs .mountains . Adirondack Mountains (NY) . Alps Mountains (Europe) . Andes Mountains (South America) . Appalachian Mountains (MT-WY) . Black Hills (SD-WY) . Carpathian Mountains (Europe) . Cascade Range (CA-OR-WA) . Caucasus Mountains (U.S.S.R.) . coastal ranges (CA) . Great Smoky Mountains (NC-TN) . Himalayas . Peninsular Ranges (CA) . Pyrenees Mountains (Europe) . Rocky Mountains (North America) . San Juan Mountains (CO) . Sierra Nevada Mountains (CA) . Wind River Range (WY) . Wrangell Mountains (AK) . muskegs . outliers (landforms) . peaks (landforms) . Pike's Peak (CO) . peninsulas . Delmarva Peninsula (DE-MD-VA) . Phoenix quadrangle (AZ) . plains . coastal plains . flood plains . Llanos Orientales (Colombia) . pampas . playas  |

|         | . steppes                        | . instrument landing system              | S            | speed indicators               |
|---------|----------------------------------|--|--------------|--------------------------------|
|         | . structural basins              | all-weather landing syste                | ms           |                                |
|         | cirques (landforms)              | . landing instruments                    | landing      | loads                          |
|         | Great Basin (US)                 | approach indicators                      | GS           | loads (forces)                 |
|         | Kalahari Basin (África)          | . landing radar                          |              | dynamic loads                  |
|         | karst                            | . microvision landing aid                |              | transient loads                |
|         | sinkholes                        | . microwave landing system               | 15           | landing loads                  |
|         | kettles (geology)                | microwave scanning bea                   |              | deceleration                   |
|         | Lake Champlain Basin (NY-VT)     | system                                   | m landing    | impact loads                   |
|         | river basins                     | RT ∞ aids                                |              | shock loads                    |
|         |                                  |  |              |                                |
|         | Atchafalaya River Basin (LA)     | air traffic control                      | D.           | structural design criteria     |
|         | Chena River Basin (AK)           | air traffic controllers (persor          |              |                                |
|         | Columbia River Basin             | airborne radar approach                  | landing      |                                |
|         | (ID-OR-WA)                       | aircraft equipment                       | RT           | aircraft landing               |
|         | Delaware River Basin (US)        | aircraft instruments                     |              | airports                       |
|         | Feather River Basin (CA)         | aircraft landing                         |              | military air facilities        |
|         | Missouri River Basin (US)        | aircraft safety                          |              | runways                        |
|         | Susquehanna River Basin          | airport towers                           |              |                                |
|         | (MD-NY-PA)                       | airports                                 | landing      | modules                        |
|         | Wabash River Basin (IL-IN-OH)    | antiskid devices                         | GS           | modules                        |
|         | wadis                            | approach                                 |              | . spacecraft modules           |
|         | watersheds                       | approach control                         |              | landing modules                |
|         | Williston Basin (North America)  | automatic pilots                         |              | lunar landing modules          |
|         | . terraces (landforms)           | enhanced vision                          |              | Lunar Module                   |
|         | plateaus                         | ground based control                     |              | Apollo lunar experiment        |
|         | •                                | · ·                                      |              | module                         |
|         | Allegheny Plateau (US)           | ground support equipment                 |              | LSSM                           |
|         | Colorado Plateau (US)            | head-up displays                         |              | Lunar Module 5                 |
|         | Great Basin (US)                 | heliports                                |              | Lunar Module 7                 |
|         | mesas                            | instrument approach                      |              | —                              |
|         | buttes                           | military air facilities                  |              | Mars Excursion Module          |
|         | piedmonts                        | National Aviation System                 |              | soft landing spacecraft        |
|         | Central Piedmont (US)            | navigation aids                          |              | . landing modules              |
|         | . volcanoes                      | PLAT system                              |              | lunar landing modules          |
|         | Mars volcanoes                   | radar approach control                   |              | Lunar Module                   |
| RT      | archipelagoes                    | radio beacons                            |              | Apollo lunar experiment module |
|         | crossbedding (geology)           | runways                                  |              | LSSM                           |
|         | ditches                          | safety devices                           |              | Lunar Module 5                 |
|         | earthquake resistance            | solar compasses                          |              | Lunar Module 7                 |
| ~       | faults                           | ooiai ooiiipacooo                        |              | Mars Excursion Module          |
| -       | geological faults                |  |              | spacecraft components          |
|         | glacial drift                    |  |              | . spacecraft modules           |
|         | landmarks                        | landing gear                             |              | landing modules                |
|         |                                  | DEF The apparatus comprising             |              | lunar landing modules          |
|         | landslides                       | ponents of an aircraft or spacecraft the |              | Lunar Module                   |
|         | platforms                        | and provide mobility for the craft on I  | and, water,  | Apollo lunar experiment        |
| ~       | ridges                           | or other surface. The landing gear       | consists of  |                                |
|         | seamounts                        | wheels, floats, skis,bogies, and tread   | ds, or other | module                         |
|         | slopes                           | devices, together with all associa       |              | LSSM                           |
|         | structural properties (geology)  | bracing, or shock absorbers. Used        |              | Lunar Module 5                 |
|         | terrain                          | able landing gear.                       |              | Lunar Module 7                 |
|         | topography                       | UF retractable landing gear              |              | Mars Excursion Module          |
|         |                                  | RT aircraft parts                        | RT           | Apollo spacecraft              |
| landing |                                  | aircraft tires                           |              | interplanetary spacecraft      |
|         |                                  | airframes                                |              | launch vehicles                |
| GS      | landing                          |  |              | maneuverable spacecraft        |
|         | . aircraft landing               | ∞ bicycle                                |              | manned spacecraft              |
|         | . blind landing                  | brakes (for arresting motion             | )            | reentry vehicles               |
|         | . glide landings                 | carriages                                |              | reusable spacecraft            |
|         | horizontal spacecraft landing    | fairings                                 |              | space capsules                 |
|         | . hard landing                   | floats                                   |              | spacecraft docking modules     |
|         | . soft landing                   | ∞ gear                                   |              | opaccorait accining moduloc    |
|         | . spacecraft landing             | hydrofoils                               | landing      | radar                          |
|         | horizontal spacecraft landing    | nose wheels                              |              | landing aids                   |
|         | lunar landing                    | retractable equipment                    | 95           | . landing radar                |
|         | planetary landing                | self alignment                           |              | radar                          |
|         | Mars landing                     | shock absorbers                          |              |                                |
|         | . ditching (landing)             | skidding                                 | DT           | . landing radar                |
|         | . emergency landing              | skis                                     | RT           | air traffic control            |
|         | . touchdown                      | spray ingestion                          |              | aircraft landing               |
|         | vertical landing                 | tires                                    |              | aircraft safety                |
|         | . water landing                  | undercarriages                           |              | approach control               |
| RT      | air traffic control              | vehicle wheels                           |              | instrument approach            |
| IXI     | approach                         |  |              | radar approach control         |
|         |                                  | wheel brakes                             |              |                                |
|         | approach and landing tests (STS) | wheels                                   | landing      | simulation                     |
|         | arrivals                         |  | GS           | simulation                     |
|         | guidance (motion)                |  |              | . landing simulation           |
|         | instrument flight rules          | landing instruments                      | RT           | altitude simulation            |
|         | instrument landing systems       | GS landing aids                          |              | atmospheric entry simulation   |
|         | maneuvers                        | . landing instruments                    |              | computerized simulation        |
|         | runways                          | approach indicators                      |              | flight simulation              |
|         | takeoff                          | RT air traffic control                   |              | spacecraft landing             |
|         | visual flight                    | aircraft equipment                       |              | training simulators            |
|         |                                  | aircraft instruments                     |              | ing ominators                  |
| landing | aids                             | altimeters                               | landina      | sites                          |
| landing |                                  |  | landing      |                                |
| UF      | landing systems                  | automatic control                        | GS           | sites                          |
| GS      | landing aids                     | blind landing                            |              | . landing sites                |
|         | . airport beacons                | flight instruments                       |              | lunar landing sites            |
|         | discrete address beacon system   | instrument landing systems               |              | Mars landing sites             |
|         | . airport lights                 | manual control                           | RT           | heliports                      |
|         | runway lights                    | measuring instruments                    |              | Mars Pathfinder                |
|         | . arresting gear                 | radar approach control                   |              | recovery zones                 |

|   | runways                                    |                     | Landsat E                                |        | weightlessness simulation                              |
|---|--|---------------------|--|--------|--|
|   | trajectory control                         | Landon              | . E                                      | Langmi | uir monolayers   |
| landing                                 | speed                                      | <b>Landsa</b><br>UF | Earth Resources Technology Satellite     |        | led March 2001)  |
|   | rates (per time)                           | O.                  | F  | USE    | monomolecular films                                    |
|   | . landing speed                            |                     | EOS-B                                    |        |  |
|   | velocity                                   |                     | ERTS-F                                   |        | uir probes   |
|   | landing speed                              | GS                  | artificial satellites                    | USE    | electrostatic probes                                   |
| RT                                      | high speed                                 |                     | . Landsat satellites                     | Langm  | uir turbulence   |
|   | low speed                                  |                     | Landsat F                                |        | led August 1994)                                       |
| landina                                 | avatama                                    |                     |  |        | turbulence   |
|   | systems landing aids                       |                     | t follow-on missions                     |        | . magnetohydrodynamic turbulence                       |
| USL                                     | landing alus                               | -                   | LFO                                      |        | . plasma turbulence                                    |
| landma                                  | rke  | RT ∝                | missions                                 |        | Langmuir turbulence                                    |
| RT                                      |  |                     | multimission modular spacecraft          | RT     |  |
|   | terrain                                    |                     | 4 - 4 - 104                              |        | magnetohydrodynamic stability                          |
|   | topography                                 |                     | t satellites                             |        | plasma dynamics plasma heating                         |
|   |  | UF                  | Earth Resources Technology Satellites    |        | plasma oscillations                                    |
| Landsa                                  |  |                     | ERTS                                     |        | plasma waves   |
| UF                                      | Earth Resources Technology Satellite       | GS                  | artificial satellites                    |        | thin films   |
|   | 1  |                     | . Landsat satellites                     |        |  |
| GS                                      | ERTS-A                                     |                     | Landsat 1                                |        | uir-Blodgett films                                     |
| GS                                      | artificial satellites . Landsat satellites |                     | Landsat 2                                |        | led March 1993)  |
|   | Landsat 1                                  |                     | Landsat 3                                | GS     | thin films   |
|   |  |                     | Landsat 4                                |        | . monomolecular films Langmuir-Blodgett films          |
| Landsa                                  | t 2  |                     | Landsat 5                                | RT     | coatings   |
| UF                                      | Earth Resources Technology Satellite       |                     | . Landsat 6<br>. Landsat 7               |        | ∞ films  |
|   | В  |                     | Landsat F                                |        | integrated optics                                      |
|   | ERTS-B                                     |                     | Landsat F                                |        | molecular electronics                                  |
| GS                                      | artificial satellites                      | RT                  | AgRISTARS project                        |        | polymeric films  |
|   | . Landsat satellites                       |                     | data products                            |        |  |
|   | Landsat 2                                  |                     | Earth observations (from space)          |        | ge programming   |
| Landaa                                  | 4.0  |                     | Earthnet                                 | GS     | computer programming . language programming            |
| Landsa                                  | The third Landsat satellite (Landsat C)    |                     | Mapsat                                   | RT     | computer assisted instruction                          |
|   | sfully launched and in orbit. Used for     |                     | NASA programs oceanography               | 17.1   | data processing  |
|   | Resources Technology Satellite C and       |                     | satellite observation                    |        | high level languages                                   |
| ERTS-C                                  |  |                     | SEASAT 1                                 |        | languages  |
| UF                                      | Earth Resources Technology Satellite       |                     | SEASAT program                           |        | machine oriented languages                             |
|   | C  |                     | SEASAT satellites                        |        | machine translation                                    |
| 00                                      | ERTS-C                                     |                     | SEASAT-B satellite                       |        | symbolic programming                                   |
| GS                                      | artificial satellites                      |                     | Synchronous Earth Observatory            |        | ∞ translators  |
|   | . Landsat satellites Landsat 3             |                     | satellite                                | langua | ges  |
| RT                                      | plasma interaction experiment              |                     |  |        | languages  |
| • | placina interaction experiment             | landsca             |  |        | . command languages                                    |
| Landsa                                  | t 4  | USE                 | terrain                                  |        | query languages  |
| UF                                      | Earth Resources Technology Satellite       |                     | topography                               |        | . document markup languages                            |
|   | D  | lass dalls          | 1  |        | . English language                                     |
|   | ERTS-D                                     | landslic            | A general term covering a wide variety   |        | . hardware description languages                       |
| GS                                      | artificial satellites                      |                     | movement landforms and processes         |        | . programming languages<br>ALGOL                       |
|   | . Landsat satellites                       |                     | g the downslope tranport, under gravita- |        | APL (programming language)                             |
| RT                                      | Landsat 4 thematic mappers (LANDSAT)       |                     | fluence, of soil and rock material en    |        | Assembly language                                      |
| IXI                                     | thematic mappers (EANDOAT)                 |                     | Usually the displaced material moves     |        | autocoders   |
| Landsa                                  | + 5  | over a              | relatively confined zone or surface of   |        | COMPASS (programming                                   |
| GS                                      | artificial satellites                      | shear.              |  |        | language)  |
|   | . Landsat satellites                       | GS                  | Earth movements                          |        | MAP (programming language)                             |
|   | Landsat 5                                  | DT                  | . landslides                             |        | BASIC (programming language)                           |
| RT                                      | thematic mappers (LANDSAT)                 | RT                  | cliffs<br>flood damage                   |        | Cobol COGO (programming language)                      |
|   |  |                     | landforms                                |        | context free languages                                 |
| Landsa                                  |  |                     | rain erosion                             |        | Forth (programming language)                           |
|   | ed April 1995)                             |                     | rocks                                    |        | FORTRAN  |
| GS                                      | artificial satellites . Landsat satellites |                     | slopes                                   |        | HAL/S (language)                                       |
|   |  |                     | soil erosion                             |        | high level languages                                   |
| RT                                      | Landsat 6 Earth Observing System (EOS)     |                     | soils                                    |        | Ada (programming language)                             |
| IXI                                     | remote sensing                             |                     | storm damage                             |        | C (programming language)                               |
|   | spectral resolution                        |                     |  |        | C++ (programming language) Java (programming language) |
|   | •  | lanes               |  |        | LISP (programming language)                            |
| Landsa                                  | t 7  | USE                 | paths                                    |        | machine oriented languages                             |
|   | ed April 1995)                             |                     | to form to                               |        | natural language (computers)                           |
| GS                                      |  |                     | in formula                               |        | Pascal (programming language)                          |
|   | . Landsat satellites                       | KI                  | dispersing ferromagnetism                |        | PL/1   |
| рт                                      | Landsat 7                                  |                     | magnetic moments                         |        | . Prolog (programming language)                        |
| KI                                      | Earth Observing System (EOS)               |                     | magnetic monette                         | RT     | alphabets  |
|   | remote sensing spectral resolution         | Longle              | complex coordinates                      |        | articulation (speech)                                  |
|   | Specific recordion                         |                     | complex coordinator simulators           |        | coding communication theory                            |
| Landsa                                  | t E  | GS                  | . environment simulators                 |        | grammars   |
| UF                                      | Earth Resources Technology Satellite       |                     | space simulators                         |        | language programming                                   |
| ٠.                                      | E  |                     | Langley complex coordinator              |        | linguistics  |
|   | EOS-A                                      | RT                  | flight simulators                        |        | machine translation                                    |
|   | ERTS-E                                     |                     | gravitational effects                    |        | orthography  |
| GS                                      | artificial satellites                      |                     | rotating environments                    |        | phonemes   |
|   | . Landsat satellites                       |                     | space environment simulation             |        | phonemics  |

phonetics lanthanum compounds inventories . semantics lanthanum oxides Large Deployable Reflector sentences (added September 1988) UF LDR (telescope) speech lanthanum tellurides symbols GS chalcogenides artificial satellites syntax . tellurides . scientific satellites translating . lanthanum tellurides . . astronomical satellites verbal communication lanthanum compounds . lanthanum tellurides . Large Deployable Reflector vowels observatories words (language) rare earth compounds . lanthanum tellurides . astronomical observatories lanthanide series metals . . astronomical satellites tellurium compounds ... Large Deployable Reflector USE rare earth elements . tellurides telescopes . . lanthanum tellurides lanthanum . infrared telescopes chemical elements Large Deployable Reflector Laos . rare earth elements . reflecting telescopes GS nations . . lanthanum . . Large Deployable Reflector Laos . spaceborne telescopes . . . lanthanum isotopes RT Asia Large Deployable Reflector metals infrared astronomy . rare earth elements lap joints . . lanthanum large space structures joints (junctions) GS . . lanthanum isotopes reflectors . lap joints bolted joints RT didymium space erectable structures submillimeter waves butt joints lanthanum 140 metal joints USE lanthanum isotopes large eddy simulation riveted joints (added October 1997) scarf joints lanthanum alloys LES (mathematics) soldered joints GS alloys simulation welded joints . rare earth alloys . large eddy simulation . . lanthanum alloys atmospheric models Laplace equation computational fluid dynamics RT ∞ equations lanthanum chlorides dynamic models harmonic functions GS halogen compounds eddy viscosity partial differential equations . chlorine compounds mathematical models Poisson equation . . chlorides Navier-Stokes equation Stokes-Beltrami equation . . . lanthanum chlorides Reynolds averaging turbulence models . halides . . chlorides Laplace operators turbulent flow . . . lanthanum chlorides USE Laplace transformation vortices . . metal halides . . lanthanum chlorides Large Infrared Telescope on Spacelab Laplace transformation lanthanum compounds USE LIRTS (telescope) UF Laplace operators lanthanum chlorides GS analysis (mathematics) large scale integration . functional analysis lanthanum compounds ŪF LSI integral transformations lanthanum compounds GS circuits . Laplace transformation . lanthanum chlorides . integrated circuits functions (mathematics) . lanthanum fluorides ... large scale integration microelectronics Laplace transformation . lanthanum oxides transformations (mathematics) large scale integration
application specific integrated circuits
chips (electronics) . lanthanum tellurides . integral transformations RT ∞ chemical compounds Laplace transformation ∞ metal compounds differential equations DTL integrated circuits operators (mathematics) lanthanum fluorides electronic packaging GS halogen compounds linear integrated circuits lapse rate . fluorine compounds medium scale integration The decrease of an atmospheric vari-. fluorides microminiaturization able with height, the variable being temperature, . . . metal fluorides microprocessors unless otherwise specified. The term applies ... lanthanum fluorides molecular electronics ambiguously to the environmental lapse rate . halides printed circuits and the process lapse rate, and the meaning . . fluorides systems-on-a-chip must often be ascertained from the context. . . . metal fluorides TTL integrated circuits humidity .... lanthanum fluorides very large scale integration temperature VHSIC (circuits) .. metal halides temperature inversions ... metal fluorides tephigrams . lanthanum fluorides large space structures lanthanum compounds Columbus space station LARA aircraft . lanthanum fluorides continuum modeling USE COIN aircraft expandable structures lanthanum isotopes flexible spacecraft large aperture seismic array lanthanum 140 hoop column antennas chemical elements arrays GS Integrated Truss Structure P1 large aperture seismic array . nuclides Integrated Truss Structure S1 Earth movements . . isotopes International Space Station earthquakes ... lanthanum isotopes intraorbit transfer vehicles . rare earth elements measuring instruments Large Deployable Reflector seismic waves . . lanthanum laser gyroscopes seismology maypole antennas . . lanthanum isotopes megamechanics metals . rare earth elements orbital servicing Large Area Crop Inventory Experiment . . lanthanum agriculture orbital space tests self shadowing . . . lanthanum isotopes agrophysical units crop growth crop inventories shape control lanthanum oxides smart structures solar power satellites chalcogenides ∞ crops

Earth resources

farm crops

Earth Resources Program

. oxides

. . metal oxides

... lanthanum oxides

space erectable structures

Space Station Freedom

Space Operations Center (NASA)

space station structures RT cartilage data transmission space stations hole burning laser ablation space technology experiments laser-induced breakdown (added February 1992) spectroscopy spacecraft structures ablation metal working ∞ structures laser ablation optical data storage materials Large Space Telescope utilization optical disks . laser applications USE Hubble Space Telescope optical radar . laser ablation optical relay systems laser annealing photoacoustic spectroscopy large-scale structure of the universe laser beams plasmadynamic lasers (added May 2002) laser damage production engineering Distribution of matter in the universe at laser drilling rapid ballistics identification the largest scale including the distribution of laser heating spaceborne lasers galactic clusters and superclusters. UF LSS (cosmology) laser plasmas speckle holography laser target interactions speckle interferometry RT big bang cosmology laser welding technology utilization cosmology nanostructure growth ultrashort pulsed lasers dark matter galactic clusters laser altimeters laser arrays (added January 1991) galactic evolution GS measuring instruments missing mass (astrophysics) . distance measuring equipment DEF A group of laser emitters arranged to give a desired combined output. relic radiation . . altimeters string theory . . laser altimeters GS arrays universe RT aircraft instruments . laser arrays altitude control RT coupled modes far fields LARGOS satellite Ice, Cloud and Land Elevation artificial satellites Satellite . geodetic satellites laser beams  $\infty$  instruments LARGOS satellite laser modes lasers Explorer 29 satellite laser outputs optical radar lasers Explorer 36 satellite satellite instruments linear arrays GEOS 1 satellite spacecraft instruments GEOS 2 satellite near fields optical coupling GEOS 3 satellite laser anemometers phased arrays DEF Measuring instruments in which the semiconductor lasers Larissa wind being measured passes through two perstimulated emission devices (added July 1995) pendicular light beams and the resulting change surface emitting lasers DEF A natural satellite of Neptune, orbiting in velocity of one or both beams is measured. at a mean distance of 73,600 kilometers. measuring instruments laser beam defocusing GS celestial bodies . anemometers USE thermal blooming . natural satellites . laser anemometers . . Neptune satellites flow velocity laser beams Larissa velocity measurement (added September 1988) RT Neptune (planet) CLIMITED TO THE TRANSMISSION AND INTERACTIONS OF LASER RADIATION; FOR THE QUANTITATIVE AND QUALITATIVE CHARACTERISTICS OF THE RADIATION PRODUCED BY A LASER USE 'LASER OUTPUTS') laser radiation laser annealing Larmor precession DEF Rapid heating of metals and/or alloys gyration GS with the use of lasers. . precession GS heat treatment . Larmor precession . annealing RT cyclotron frequency GS beams (radiation) . laser annealing cyclotron radiation light beams utilization . laser applications . . laser annealing . . laser beams Larmor radius coherent radiation DEF For a charged particle moving trans-. coherent electromagnetic radiation heating versely in a uniform magnetic field, the radius of laser beams laser ablation curvature of the projection of its path on a plane electromagnetic radiation laser cutting perpendicular to the field. Named after the En-. coherent electromagnetic radiation lasers glish mathematician Sir Joseph Larmor (1857-. laser beams normalizing (heat treatment) 1942). . light beams recrystallization GS dimensions . laser beams simulated annealing . radii RT beam steering tempering . . Larmor radius beamforming geometry laser applications four-wave mixing . Euclidean geometry free-space optical communication GS utilization . . radii . laser applications holographic optical elements . . Larmor radius . . laser ablation laser ablation cyclotron radiation . . laser annealing laser arrays gyromagnetism . . laser cooling thermal lensing plasma physics . . laser cutting precession . . laser deposition laser cavities . . . pulsed laser deposition UF optical generators larvae . . laser drilling GS cavities . . laser fusion GS larvae . laser cavities bollworms . . laser guidance amplifiers silkworms . . laser guide stars laser stability RT animals . . laser heating lasers arthropods . . laser induced fluorescence light amplifiers infestation . . laser interferometry ∞ optics . . laser machining insects pulse generators invertebrates . . laser microscopy semiconductor lasers pupa . . laser power beaming solid state devices worms laser propulsion solid state lasers . . laser spectroscopy stimulated emission devices . optogalvanic spectroscopy larvnx anatomy . . laser ranging laser communication GS . respiratory system USE optical communication . . laser weapons laser welding . . larynx . satellite laser ranging laser cooling . . . glottis

RT airborne lasers

(added March 1995)

... vocal cords

SN ((COOLING OF ATOMIC PARTICLES BY LASERS, NOT COOLING OF LASERS)) GS cooling laser cooling utilization

. laser applications

laser cooling atom optics atomic energy levels optical pumping Penning effect

quenching (atomic physics) trapped particles

laser cutting

The cutting of material by means of lasers.

cutting GS

. laser cutting utilization . laser applications

. laser cutting

blanking (cutting)

cutters focusing forming techniques

laser annealing laser drilling laser heating laser machining laser outputs

laser target interactions

machining metal cutting micromachining splitting thermal blooming

laser damage

damage

. radiation damage

. . laser damage radiation effects . radiation damage

. laser damage burns (injuries) laser ablation pulsed radiation radiation hazards

laser deposition

(added December 1992) deposition

laser deposition

. pulsed laser deposition utilization

. laser applications

... laser deposition

. . pulsed laser deposition

RT crystal growth epitaxy excimer lasers laser heating nanostructure growth superconducting films vapor deposition

laser diodes

USE semiconductor lasers

laser doppler velocimeters

measuring instruments laser doppler velocimeters optical equipment

laser doppler velocimeters

flow measurement nonintrusive measurement optical measuring instruments particle image velocimetry velocity measurement

laser drilling

drilling GS

laser drilling utilization

. laser applications laser drilling

RT focusina laser ablation laser cutting micromachining

laser fusion

GS utilization

. laser applications

laser fusion RT aspheric optics

∞ fusion

glass lasers high power lasers inertial fusion (reactor) Nova Laser System plasmas (physics) Shiva laser system

Laser Geodynamic Satellite USE LÁGEOS (satellite)

laser guidance

Guidance system for rockets or projectiles, utilizing a laser beam for a precise trajectory to a designated target.

guidance (motion) terminal guidance . laser guidance

utilization . laser applications

laser guidance computer programs homing devices impact prediction laser guide stars

missile control

laser guide stars

(added November 1994)

Use of a laser to excite either Rayleigh backscattering or the mesospheric sodium layer to create artificial references for adaptive optics.

GS utilization

. laser applications

laser guide stars RT

adaptive optics celestial reference systems

image processing instrument compensation laser guidance reference stars

laser gyroscopes

Ring-laser angular rotation sensors for stabilizing and controlling large space structures, for space vehicle guidance, etc.

GS gyroscopes

star trackers

laser gyroscopes RT large space structures optical gyroscopes Sagnac effect ∞ sensors spacecraft guidance

stabilization

Titan 4B launch vehicle

laser heating

GS heating

laser heating utilization

. laser applications

laser heating RT heat sources laser ablation

laser cutting laser deposition

pulse heating

pulsed laser deposition pulsed lasers

thermal blooming YAG lasers

laser induced fluorescence

DEF Emission of electromagnetic radiation that is caused by the flow of laser radiation into the emitting body and which ceases abruptly with the excitation. Used for LIF (fluorescence).

LIF (fluorescence) emission GS

. light emission

... luminescence

. . . fluorescence

. laser induced fluorescence

utilization

. laser applications

laser induced fluorescence

electromagnetic absorption excitation extinction irradiation laser outputs laser spectroscopy Mossbauer effect phosphors photoionization , photoluminescence

Laser Interferometer Gravitational-Wave Observatory

plasma radiation

(added December 2000) USE LIGO (observatory)

Laser Interferometer Space Antenna (added December 2000) USE LISA (observatory)

laser interferometry

The design and use of interferometers in which a laser is the light source. The monochromaticity and brilliance of the laser light enables the differentiation between interfering beams of hundreds of meters, in contrast to a maximum of 20 centimeters for the classical interferometers.

GS interferometry

. laser interferometry

utilization

. laser applications laser interferometry

LIGO (observatory) LISA (observatory) Sagnac effect

laser machining

(added June 1995)

UF laser micromachining

machining

. laser machining utilization

. laser applications

laser machining RT laser cutting metal working

laser materials

RT alexandrite fiber lasers gadolinium-gallium garnet maser materials ∞ materials metal vapor lasers

quantum well lasers rhodamine sulfur hexafluoride xenon chloride lasers xenon fluoride lasers YAG lasers

laser micromachining USE laser machining

laser microscopy

DEF The application of a laser microscope having a ceramic tube in which a metal vapor is formed at 1600 degrees C. Copper (or other metal atoms) are excited and amplify light so that, when used with a projection microscope, the object to be magnified is illuminated. The power of the emitted beam on the screen remains constant.

GS microscopy

. laser microscopy utilization

. laser applications laser microscopy

electro-optics light amplifiers metal vapor lasers microelectronics

### laser mode locking

locking

laser mode locking

injection locking lasers optical coupling

laser modes

modes GS

### laser modes

axial modes field mode theory helium-neon lasers laser arrays laser stability optical resonators TEA lasers waveguide lasers wavelengths

### laser outputs

(LIMITED TO THE QUANTITATIVE AND QUALITATIVE CHARACTERISTICS OF THE RADIATION PRODUCED BY A LASER; FORTHE TRANSMISSION AND INTERACTIONS OF LASER RADIATION USE 'LASER BEAMS')

GS output

#### . laser outputs

RT atmospheric lasers

coherence coherent light diffraction radiation

distributed feedback lasers

dye lasers excimer lasers frequency pulling gasdynamic lasers glass lasers helium-neon lasers

high power lasers

holographic interferometry laser arrays

laser cutting

laser induced fluorescence

laser stability maser outputs Nova Laser System optical resonators optical waveguides phase matching photon beams picosecond pulses

pulse duration quantum efficiency

radiant flux density Shiva laser system

speckle patterns thermal blooming

tube lasers

two-wavelength lasers

ultraviolet lasers volumetric efficiency waveguide lasers

wavelengths x ray lasers

xenon chloride lasers xenon fluoride lasers

YAG lasers

### laser plasma interactions

The results of the actions of laser beams on electrically ducting fluids, such as plasmas or ionized gases.

GS electromagnetic interactions

. plasma-electromagnetic interaction

. laser plasma interactions

plasma interactions

. plasma-electromagnetic interaction

### . laser plasma interactions

backscattering

electromagnetic coupling glass lasers

∞ interactions plasmas (physics) theta pinch

### laser plasmas

SN (EXCLUDES LASER OUTPUTS)

GS particles

. charged particles

. . energetic particles

. . . plasmas (physics)

. . . . laser plasmas

. corpuscular radiation

. . energetic particles . . . plasmas (physics)

. . . laser plasmas

inertial fusion (reactor)

laser ablation

laser-induced breakdown spectroscopy

lasers

### laser power beaming

(added November 1989)

Space-to-Earth power transmission utilizing a laser.

power transmission (lasers)

GS power beaming

laser power beaming

utilization

. laser applications

. laser power beaming

energy conversion RT laser propulsion

microwave power beaming microwave transmission

satellite power transmission spacecraft power supplies

### laser propulsion

The use of high power lasers for aircraft, rocket, or spacecraft propulsion by indirect conversion of laser heated propellants or working fluids to produce thrust; direct thrust generation with laser light pressure on the vehicle; direct conversion of laser energy into electricity for propulsion.

GS propulsion

. electric propulsion

. laser propulsion

low thrust propulsion . . photonic propulsion

... laser propulsion

. spacecraft propulsion

. . photonic propulsion

laser propulsion

utilization

. laser applications

### laser propulsion

aircraft engines hybrid propulsion

laser power beaming optical pumping

power beaming propulsion system configurations

propulsive efficiency Rankine cycle rocket engines

spacecraft propulsion thermodynamic cycles

### laser pumping

DEF The application of a laser beam of appropriate frequency to a laser medium so that absorption of the radiation increases the population of atoms or molecules in higher energy states

GS optical pumping

laser pumping

RT fiber lasers lasers

> maser pumping ∞ pumping

rare gas-halide lasers solar-pumped lasers stimulated emission devices

wiggler magnets

laser radar

USE optical radar

laser radiation

USE laser beams

### laser range finders

measuring instruments

. distance measuring equipment

. . range finders

... optical range finders

. laser range finders

. optical measuring instruments

. . optical range finders

. laser range finders

optical equipment

. optical measuring instruments

. . optical range finders

laser range finders

LAGEOS (satellite)

laser ranging lunar rangefinding lunar retroreflectors

navigation aids navigation instruments satellite laser ranging

laser rangefinding (added July 2001) USE laser ranging

#### laser ranger/tracker

RT airborne lasers range finders rangefinding tracking (position)

### laser ranging

(added July 2001)

DEF A technique for determining the distance to a target by measuring the absolute time-of-flight of a laser pulse traveling from a transmitter to a reflector on the target and back to a detector at the transmission site.

laser rangefinding LLR (ranging) lunar laser ranging

rangefinding

. laser ranging . . satellite laser ranging

utilization

. laser applications

. . laser ranging
. . . satellite laser ranging

laser range finders lunar rangefinding retroreflection retroreflectors

laser spark spectroscopy

(added June 2001) USE laser-induced breakdown spectroscopy

# laser spectrometers DEF Spectrometer

Spectrometers that use a laser.

measuring instruments

. spectrometers

. laser spectrometers RT absorption spectra infrared spectroscopy laser spectroscopy

laser spectroscopy The use of lasers for spectroscopic analysis; particularly in Raman spectroscopy.

spectroscopy

. optical emission spectroscopy

... laser spectroscopy . optogalvanic spectroscopy utilization

. laser applications

.. laser spectroscopy

. optogalvanic spectroscopy chemical analysis laser induced fluorescence

laser spectrometers laser-induced breakdown spectroscopy photoacoustic spectroscopy spectroscopic analysis

### laser stability

DEF Characteristic of a laser beam free from oscillations.

stability GS

. laser stability

RT continuous wave lasers

spectrum analysis

latches frequency pulling laser spectroscopy .. two-wavelength lasers frequency stability plasma diagnostics . . waveguide lasers laser cavities Raman spectroscopy . . . fiber lasers laser modes spectroscopic analysis . x ray lasers laser outputs RT alkali vapor lamps amplifiers lasers laser target designators beam switching DEF Devices for producing light by emission of energy stored in a molecular or atomic DEF Laser equipment aboard spacecraft for ∞ coherence identifying satellites, missiles, and objects in coherent electromagnetic radiation system when stimulated by light or an electric coherent light space. discharge. (From Light Amplification by Stimu-RT ∞ detectors electron pumping lated Emission of Radiation.) Used for Fabrymissile tracking gadolinium-gallium garnet Perot lasers, natural lasers, and optical masers. satellite tracking garnets Fabry-Perot lasers target recognition hole burning natural lasers targets holography infrared windows optical masers stimulated emission devices interplanetary communication interstellar masers laser target interactions . lasers DEF Interactions where lasers are used to . . airborne lasers produce heating, fusion, or damage in targets. Kerr electrooptical effect . . argon lasers RT ∞ interactions laser altimeters . . atmospheric lasers laser ablation laser annealing . . carbon lasers laser cutting laser arravs . . chemical lasers lasers laser cavities . . . HCL lasers laser mode locking laser plasmas pulsed lasers . HCL argon lasers targets . . . chemical oxygen-iodine lasers laser pumping laser target interactions . . continuous wave lasers . . distributed feedback lasers laser targets Objects subjected to laser radiation, laser targets especially for laser fusion applications. . . free electron lasers laser weapons . . gamma ray lasers ĠS targets laser windows gas lasers . laser targets lasing carbon dioxide lasers glass lasers RT light amplifiers carbon monoxide lasers lasers light modulation DF lasers light sources excimer lasers laser weapons light transmission DEF Military applications of high power la-**HCL** lasers lunar communication sers (mainly gasdynamic and chemical mixing . HCL argon lasers masers HCN lasers lasers). microballoons GS helium-neon lasers utilization molecular oscillators HF lasers . laser applications nuclear pumping optical communication . laser weapons . . . nitrogen lasers . . . rare gas-halide lasers weapon systems optical data processing . laser weapons . . . . krypton fluoride lasers optical memory (data storage) . . . . xenon chloride lasers weapons optical pumping laser weapons . . . . xenon fluoride lasers optical resonators TEA lasers RT fusion weapons ∞ optics . . . ultraviolet lasers lasers phase matching . . gasdynamic lasers military technology photodiodes . . glass lasers space weapons photonics . . high power lasers stimulated emission devices pulse generators pulsed radiation Nova Laser System Shiva laser system laser welding quantum amplifiers DEF Microspot welding with a laser beam. . . infrared lasers quantum electronics GS utilization injection lasers rapid ballistics identification . laser applications . . . quantum cascade lasers Senarmont polariscopes . laser welding . . iodine lasers solid state devices . . . chemical oxygen-iodine lasers welding space communication stimulated emission . . liquid lasers . fusion welding . . inquid lasers
. . metal vapor lasers
. . neodymium lasers
. nuclear pumped lasers
. organic lasers . laser welding thermal blooming RT bonding threshold currents heating transient oscillations laser ablation traveling wave modulation . dye lasers pulsed lasers plasmadynamic lasers soldering lasing pulsed lasers DEF Generation of visible or IR light waves Q switched lasers having very nearly a single frequency by pumping or exciting electrons into high energy states in a stimulated emission device (laser). laser windows GS windows (intervals) ultrashort pulsed lasers laser windows ultraviolet lasers RT bandwidth Raman lasers distributed feedback lasers energy bands . . ring lasers electron transitions . . semiconductor lasers lasers excimer lasers . . . aluminum gallium arsenide lasers hole burning laser-induced breakdown spectroscopy gallium arsenide lasers krypton fluoride lasers (added June 2001) quantum cascade lasers lasers DEF A non-intrusive, spectroscopic techquantum well lasers nitrogen lasers nique wherein a laser pulse is focused on the . . . YLF lasers optical transition target sample to form a laser spark or plasma. solar-pumped lasers rare gas-halide lasers The emitted light from the spark is then used to . . solid state lasers stimulated emission devices identify elemental constituents and quantify aluminum gallium arsenide lasers surface emitting lasers abundances of measured species. DBR lasers laser spark spectroscopy fiber lasers LASS (spectroscopy)

. . . gallium arsenide lasers

. . . quantum well lasers

ruby lasers

. . . YAG lasers

. YLF lasers

. . tunable lasers

. . spaceborne lasers

. . surface emitting lasers

quantum cascade lasers

LASS (spectroscopy)

spectroscopy

. laser-induced breakdown

absorption spectroscopy

emission spectra

laser applications

laser plasmas

RT

spectroscopy

LIBS (spectroscopy)

(added June 2001) USE laser-induced breakdown

spectroscopy

I ASV

F-111 aircraft USE

latches

DEF Devices that fasten one thing to an-

other, as a rocket to a launcher, but are subject helicopter control geodetic coordinates to ready release so that things may be sepalongitudinal control longitude manual control position (location) RT fasteners missile control holders latitude measurement satellite attitude control linkages RT longitude measurement satellite control ∞ measurement pins navigation latch-up lateral oscillation positioning DEF A p-n-p-n self-sustaining low impesnaking dence state which is a type of electronic maldirectional stability lattice energy (added March 2002) RT CMOS stability augmentation DEF A measure of the stability of a crystal electrical impedance transverse oscillation lattice, given by the energy that would be reintegrated circuits turning flight leased in bringing constituent ions from an infip-n-p-n junctions wing rock nite distance apart to their locations in a stable switching circuits vaw yawing moments binding energy late stars crystal lattices GS celestial bodies lateral stability ∞ energy . stars dihedral effect interatomic forces . . late stars laterality ionic crystals dynamic characteristics ... cool stars lattice parameters . . . . carbon stars . dynamic stability lattice vibrations . . motion stability . . . . flare stars . . . attitude stability K stars lattice imperfections . . . . M stars ... lateral stability USE crystal defects . Van Biesbroeck star stability . . . . Mira variables . dynamic stability lattice parameters . . motion stability . Omicron Ceti star . . . attitude stability GS independent variables . . . S stars . lattice parameters RT asymptotic giant branch stars ... lateral stability crystal lattices dwarf stars aerodynamic stability crystallography early stars aircraft stability lattice energy giant stars dihedral angle Patterson map directional stability flow stability main sequence stars red dwarf stars superlattices x ray analysis handedness red giant stars stellar evolution hovering stability lattice vibrations longitudinal stability subgiant stars GS vibration roll . lattice vibrations lateness rolling moments crystal defects delay rotary stability RT crystal lattices scheduling spacecraft stability forbidden bands turning flight lattice energy latent heat vertical orientation particle motion DEF The unit quantity of heat required for phonons isothermal change in a state of a unit mass of matter. Latent heat is termed heat of fusion, heat laterality random vibration USE lateral stability spin-lattice relaxation of sublimation, heat of vaporization, depending thermal energy on the change of state involved. lateralization GS chemical properties USE lateral control . thermochemical properties laterites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . latent heat ... heat of fusion GS soils laterites . . . heat of vaporization crystal lattices heat decomposition lattices (mathematics) . enthalpy rocks ... latent heat tropical regions lattices (mathematics) ... heat of fusion water `sublattices . . heat of vaporization mathematical logic GS thermodynamic properties latex . lattices (mathematics)
. Boolean algebra . enthalpy acrylic resins .. latent heat elastomers . . Boolean functions ... heat of fusion rubber communication theory . . . heat of vaporization synthetic rubbers Kakutani theorem . thermochemical properties ∞ lattices lathes ... latent heat ∞ mathematics tools ... heat of fusion  $\infty$  matrices . . . heat of vaporization . machine tools set theory . . lathes . thermophysical properties vortex lattice method .. latent heat . . turret lathes RT ∞ construction materials ... heat of fusion Latvia ... heat of vaporization grinding machines GS nations Latvia latent heat of fusion Latin square method Baltic sea USE heat of fusion DEF In mathematics, the use of an n x n Europe square array of n different symbols, each symbol lateral control appearing once in each row and once in each Laue method UF lateralization column. RT ∞ mathematics GS x ray analysis roll control Laue method GS attitude control ∞ methodology crystal lattices lateral control variable crystallography ailerons aircraft control latitude diffraction altitude control DEF Angular distance from a primary great ∞ methodology x ray diffraction automatic control circle or plane. ∞ control latitude

GS

RT

geomagnetic latitude

coordinates

laughing

RT emotions

directional control

elevons

human reactions . recoverable launch vehicles . reusable launch vehicles launch clouds . . single stage to orbit vehicles launch time USE exhaust clouds Delta Clipper GS windows (intervals) ... HOTOL launch vehicle . launch windows launch complexes X-33 reusable launch vehicle launching USE launching bases . . X-34 reusable launch vehicle rocket launching . Saturn launch vehicles spacecraft launching launch costs . . Saturn 1 launch vehicles (added December 1995) Saturn 1 SA-1 launch vehicle launchers ĠS costs Saturn 1 SA-10 launch vehicle launch costs Saturn 1 SA-2 launch vehicle RT cost reduction Saturn 1 SA-3 launch vehicle financial management Saturn 1 SA-4 launch vehicle launch vehicles Saturn 1 SA-5 launch vehicle spacecraft launching Saturn 1 SA-6 launch vehicle Saturn 1 SA-7 launch vehicle launch dates Saturn 1 SA-8 launch vehicle RT launching Saturn 1 SA-9 launch vehicle spacecraft launching Saturn 1B launch vehicles time . . Saturn 2 launch vehicles UF launching devices turnaround (STS) Saturn 5 launch vehicles Saturn D launch vehicle launchers launch escape systems . . JATO engines Scout launch vehicle LES (escape systems) . catapults . Standard Launch Vehicles GS escape systems Atlas SLV-3 launch vehicle Standard Launch Vehicle 5 . . rocket catapults launch escape systems . gun launchers escape capsules Thor launch vehicles escape rockets Thor Able rocket vehicle ∞ systems Thor Agena launch vehicle . rocket launchers Thor Delta launch vehicle . . rocket catapults launch vehicles launch time . Thorad launch vehicles USE launch windows . . Thor Able rocket vehicle launching launching pads Thor Agena launch vehicle launch vehicle configurations Thor Delta launch vehicle Advanced Launch System (STS) launching sites Titan Centaur launch vehicle aerodynamic configurations mass drivers . Titan launch vehicles . . Titan 3 launch vehicle HOTOL launch vehicle . . Titan 4 launch vehicle rocket launching missile configurations . Titan 4B launch vehicle Titan project propulsion system configurations . Ares 1 launch vehicle recoverable launch vehicles launching . Long March launch vehicles spacecraft configurations launching vanguard 2 launch vehicle GS . air launching . rocket launching Vega launch vehicle launch vehicles . Zenit launch vehicles Rockets or other vehicles used to . . Ares 1 first stage . . liftoff (launching) transport satellites, space probes, or other pay-. Ares 1 upper stage . . lunar launch loads from the Earth (or other terrestrial sur-. . orbital launching Advanced Launch System (STS) faces) to space. aerospace planes . sea launching carrier rockets booster rocket engines launch vehicles . liftoff (launching) ∞ booster rockets . Ablestar launch vehicle countdown ∞ boosters . Ariane launch vehicle Centaur project exhaust clouds exhaust clouds . . Ariane 4 launch vehicle launch dates . . Ariane 5 launch vehicle flight test vehicles
Jupiter C rocket vehicle
Jupiter project launch vehicles . Atlas launch vehicles launch windows . . Atlas Able 5 launch vehicle launchers Atlas Agena B launch vehicle
 Atlas Agena launch vehicles
 Atlas Centaur launch vehicle missile launchers landing modules launch costs prelaunch tests launchers . Atlas SLV-3 launch vehicle rocket launchers launching Blue Scout rocket vehicle ∞ shot missile launchers Blue Streak launch vehicle starting missiles . Centaur launch vehicle Titan project multiengine vehicles Atlas Centaur launch vehicle multistage rocket vehicles Delta launch vehicle launching bases National Launch Vehicle Program Delta 3 launch vehicle rocket catapults Delta 4 Heavy launch vehicle rocket engines Delta 4 launch vehicle rocket launchers . Diamant launch vehicle launch complexes rocket launching Eldo launch vehicle GS launching bases rocket vehicles Europa launch vehicles ∞ rockets Europa 1 launch vehicle RT ∞ facilities Saturn project Europa 2 launch vehicle Scout project Europa 3 launch vehicle Space Processing Applications launching devices
USE launchers Europa 4 launch vehicle Rocket heavy lift launch vehicles spacecraft . . Ares 5 cargo launch vehicle spacecraft launching Delta 4 Heavy launch vehicle launching pads sustainer rocket engines Energiya launch vehicle test vehicles Proton launch vehicle Titan project . Hyla-Star rocket vehicle GS sites ∞ vehicles . launching sites . Juno launch vehicles Vernier engines . launching pads . . Juno 1 launch vehicle ∞ winged vehicles Juno 2 launch vehicle flame deflectors . Little Joe 2 launch vehicle

### launch windows

. Nomad launch vehicle

Nova launch vehicles

. RAM B launch vehicle

Pegasus air-launched booster

DEF The postulated openings in the continuum of time or of space, through which a spacecraft or missile must be launched in order

launching pads to achieve a desired encounter, rendezvous, impact or the like. Used for launch time. Specifically, structures or devices, often incorporating tubes, a group of tubes, or a set of tracks, from which self-propelled missiles are sent forth and by means of which the missiles usually are aimed or imparted initial guidance -- distinguished in this specific sense the catapult. Broadly, structures, machines, or devices, including catapults, by means of which airplanes, rockets, or the like are directed, hurled, or sent forth. Used for launching devices. . aircraft launching devices . hypervelocity launchers . missile launchers . mobile missile launchers National Launch Vehicle Program . spacecraft launching National Launch Vehicle Program DEF Areas such as Cape Kennedy or Vandenburg Air Force Base that have several launch sites. Used for launch complexes. Cape Kennedy launch complex ground support equipment DEF The load-bearing base or platform from which a rocket vehicle is launched.

> gantry cranes ground support equipment launchers

liftoff (launching) ∞ pad

## launching sites

|   | ∘ platforms  |                             | intellectual property  |   | construction   |
|---|--|-----------------------------|--|---|--|
|   | spacecraft launching   | ~                           | law  |   | descriptive geometry   |
|   | umbilical towers   |                             | politics   | 00  | design   |
|   | difficult toword   |                             | regulations  |   | drawing  |
| laumah  | n  |                             | <u> </u>   |   | •  |
|   | ng sites   |                             | voting   |   | drawings   |
|   | Defined areas from which a rocket  |                             |  |   | engineering drawings   |
| vehicle   | is launched, either, operationally or for  | lawrenc                     | ium  |   | models   |
| test pur  | poses; specifically, at Cape Kennedy or  | GS                          | chemical elements  | ~   | plans  |
|   | berg, any of the several areas equipped  | 93                          |  | ~   | •  |
|   |  |                             | . actinide series  |   | surveys  |
|   | h a rocket.  |                             | transuranium elements  |   |  |
| GS  | sites  |                             | lawrencium   | lay-up  |  |
|   | . launching sites  |                             | . nuclides   | DEF   | Production of reinforced plastics by   |
|   | launching pads   |                             |  |   | ng the reinforced material (such as  |
| DT  |  |                             | isotopes   |   |  |
| RT  | exhaust clouds   |                             | radioactive isotopes   |   | n the mold prior to impregnation with  |
|   | gantry cranes  |                             | transuranium elements  | resin.  |  |
|   | ground support equipment   |                             | lawrencium   | RT  | aramid fibers  |
|   | launchers  |                             | metals   |   | carbon fiber reinforced plastics   |
|   | missile launchers  |                             |  |   | composite materials  |
|   |  |                             | . actinide series  |   | •  |
|   | missile silos  |                             | transuranium elements  |   | composite structures   |
|   | missiles   |                             | lawrencium   |   | epoxy resins   |
|   | National Launch Vehicle Program  |                             |  |   | fiber orientation  |
|   | rocket catapults   | laws                        |  |   | laminates  |
|   | rocket launchers   |                             |  |   |  |
|   | Tocket lauticitets   | GS                          | laws   |   | reinforcing fibers   |
|   |  |                             | . Child-Langmuir law   |   | stacking sequence (composite   |
| lava  |  |                             | . closure law  |   | materials)   |
| DEF   | A general term for a molten extrusive;   |                             | . Coffin-Manson law  |   | •  |
| also fo   | the rock that is solidified from it.   |                             |  | Lazarev   | meteorite  |
| GS  | effusives  |                             | . conservation laws  |   |  |
| 99  |  |                             | . Fourier law  | GS  | celestial bodies   |
|   | . lava   |                             | . Hookes law   |   | . meteorites   |
|   | geophysical fluids   |                             |  |   | iron meteorites  |
|   | . lava   |                             | . Kepler laws  |   | Lazarev meteorite  |
| RT  | aggregates   |                             | . Newton pressure law  | DT  |  |
| 13.1  |  |                             | . Newton second law  | RT  | stony meteorites   |
|   | calderas   |                             | . Newton-Busemann law  |   |  |
|   | cones (volcanoes)  |                             | . Ohms law   | LC circu  | uits   |
|   | Earth resources  |                             |  | GS  | circuits   |
|   | igneous rocks  |                             | . radiation laws   |   | . LC circuits  |
|   | =  |                             | Kirchhoff law of radiation   | DT  |  |
|   | magma  |                             | Stefan-Boltzmann law   | RT  | inductance   |
|   | maria  |                             | Stokes law of radiation  |   | network analysis   |
|   | Mars volcanoes   |                             | . Biot-Savart law  |   | network synthesis  |
|   | minerals   |                             |  |   | parametric amplifiers  |
|   |  |                             | . scaling laws   |   |  |
|   | regolith   |                             | . similitude law   |   | RC circuits  |
|   | rhyolite   |                             | . Snells law   |   | RL circuits  |
|   | rocks  |                             | . Tafel law  |   | RLC circuits   |
|   | soils  |                             | . Weber-Fechner law  |   | time constant  |
|   |  |                             |  |   |  |
|   | volcanic eruntions   |                             |  |   |  |
|   | volcanic eruptions   | RT ∝                        |  | LODE  | 200 of or  |
|   | volcanoes  | RT ∝                        |  | LCRE R  |  |
|   |  |                             | law<br>rules   |   | Peactor Lithium Cooled Reactor   |
|   | volcanoes  |                             | law  |   |  |
| Laval r   | volcanoes<br>volcanology<br>umber  | ~                           | law<br>rules   |   | Lithium Cooled Reactor   |
|   | volcanoes<br>volcanology<br>umber  |                             | law<br>rules   | USE   | Lithium Cooled Reactor   |
| <b>Laval</b> r<br>GS  | volcanoes volcanology  umber dimensionless numbers   | ~                           | law<br>rules   | USE   | Lithium Cooled Reactor<br>Experiment   |
|   | volcanoes volcanology  umber dimensionless numbers Laval number  | ∞ layers                    | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | USE   | Lithium Cooled Reactor   |
|   | volcanoes volcanology  umber dimensionless numbers   | ∞ <b>layers</b><br>SN       | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   | USE   | Lithium Cooled Reactor<br>Experiment   |
|   | volcanoes volcanology  umber dimensionless numbers Laval number  | ∞ layers                    | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | USE<br>LDEF<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility   |
|   | volcanoes volcanology  umber dimensionless numbers Laval number ratios   | ∞ <b>layers</b><br>SN       | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  lamina   | USE  LDEF  USE  LDR (tel  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope)   |
| GS  | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies  | USE  LDEF  USE  LDR (tel  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility   |
| GS  | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number bhases   | ∞ <b>layers</b><br>SN       | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines   | USE  LDEF USE  LDR (tell USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope) Large Deployable Reflector  |
| GS  Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number chases ed August 1998)   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope) Large Deployable Reflector  |
| GS  | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number bhases   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines   | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope) Large Deployable Reflector  |
| GS  Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number chases ed August 1998)   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers   | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  lescope) Large Deployable Reflector g autoclaving  |
| GS  Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number chases ded August 1998) solid phases Laves phases  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers   | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope) Large Deployable Reflector  g autoclaving beneficiation   |
| Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope) Large Deployable Reflector  g autoclaving beneficiation dissolving  |
| Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal lattices  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers   | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Lescope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution  |
| Laves   | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ed August 1998) solid phases . Laves phases alloys crystal lattices crystal structure  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Lescope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction   |
| Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number ohases ed August 1998) solid phases Laves phases alloys crystal lattices crystal structure cubic lattices  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Lescope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution  |
| Laves   | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ed August 1998) solid phases . Laves phases alloys crystal lattices crystal structure  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Lescope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction   |
| Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number ohases ed August 1998) solid phases Laves phases alloys crystal lattices crystal structure cubic lattices  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  lescope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy  |
| Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal structure cubic lattices interstitials microstructure   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina piles anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology)  | LDEF<br>USE<br>LDR (tel<br>USE  | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation   |
| Laves   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number chases chases solid phases Laves phases alloys crystal lattices crystal structure cubic lattices interstitials   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations   | USE  LDEF USE  LDR (tel USE  leaching                                   | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  gautoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability   |
| Laves (add GS   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal structure cubic lattices interstitials microstructure   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines  | USE  LDEF USE  LDR (tel USE  leaching                                   | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation   |
| GS  Laves (add GS RT  | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations   | USE  LDEF USE  LDR (tel USE  leaching                                   | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  gautoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability   |
| Laves (add GS   | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines  | USE  LDEF USE  LDR (tel USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  lescope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability separation  |
| GS  Laves (add GS RT  | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ded August 1998) solid phases . Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers  | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability separation etal)   |
| GS  Laves (add GS  RT   RT                                  | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ed August 1998) solid phases . Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates  | USE  LDEF USE  LDR (tel USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability esperation  etal) chemical elements  |
| GS  Laves (add GS RT  | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ded August 1998) solid phases . Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates membranes  | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  gautoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability esperation  etal) chemical elements . lead (metal)  |
| GS  Laves (add GS  RT   RT                                  | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) claiming   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates  | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability esperation  etal) chemical elements  |
| GS  Laves (add GS  RT   RT                                  | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ed August 1998) solid phases . Laves phases alloys crystal lattices crystal structure cubic lattices intersititials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) claiming law (jurisprudence)  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates membranes  | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  gautoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability esperation  etal) chemical elements . lead (metal)  |
| GS  Laves (add GS  RT   RT                                  | volcanoes volcanology  umber dimensionless numbers Laval number ratios Laval number  chases ed August 1998) solid phases Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) claiming   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates membranes mixing layers (fluids) monomolecular films   | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  (escope) Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability eseparation  etal) chemical elements . lead (metal) lead isotopes metals  |
| GS  Laves (add GS  RT                                       | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ed August 1998) solid phases . Laves phases alloys crystal lattices crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) claiming law (jurisprudence) laws   | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates membranes mixing layers (fluids) monomolecular films multilayer insulation   | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability separation  etal) chemical elements . lead (metal) lead isotopes metals . lead (metal) . lead (metal)  |
| GS  Laves (add GS  RT  SN  RT                               | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ed August 1998) solid phases . Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) claiming law (jurisprudence) laws  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) Iamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates membranes mixing layers (fluids) monomolecular films multilayer insulation plasma layers   | USE  LDEF USE  LDR (tell USE  leaching RT                               | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  gautoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability eseparation  etal) chemical elements . lead (metal) lead isotopes metals . lead isotopes  |
| GS  Laves (add GS  RT                                       | volcanoes volcanology  umber dimensionless numbers . Laval number ratios . Laval number  chases ded August 1998) solid phases . Laves phases alloys crystal lattices crystal structure cubic lattices interstitials microstructure phase transformations  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) claiming law (jurisprudence) laws  isprudence) A written rule or collection of rules for  | ∞ <b>layers</b><br>SN<br>UF | law rules Stokes law  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) lamina plies anticlines atmospheric boundary layer barrier layers boundary layers coatings deep scattering layers Earth ionosphere Ekman layer flat layers folds (geology) formations geosynclines intercalation interlayers laminates membranes mixing layers (fluids) monomolecular films multilayer insulation plasma layers ply orientation   | USE  LDEF USE  LDR (te) USE  leaching RT                                | Lithium Cooled Reactor Experiment  Long Duration Exposure Facility  Large Deployable Reflector  g autoclaving beneficiation dissolving elution extraction flushing hydrometallurgy percolation permeability separation  etal) chemical elements . lead (metal) lead isotopes metals . lead (metal) . lead (metal)  |
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containing lead oxides that change in composition during charging and discharging. The electrolyte generally is dilute sulfuric acid.

electrochemical cells

- . electric batteries
- . . storage batteries
- .. lead acid batteries

RT chemical auxiliary power units

∞ electric cells electrolytic cells energy storage nickel iron batteries ∞ power supplies

### lead alloys

GS alloys

lead alloys bearing alloys indium alloys solders

### lead chlorides

GS halogen compounds

. chlorine compounds

. . chlorides

. lead chlorides

. halides

. . chlorides

... lead chlorides

. . metal halides

. lead chlorides lead compounds

lead chlorides

### lead compounds

UF

plumbane lead compounds GS

. lead acetates . lead chlorides

. lead molybdates . lead oxides

. lead selenides

. lead sulfides

. lead tellurides

. lead titanates

. . lead zirconate titanates

. lead tungstates

RT ∞ chemical compounds

∞ metal compounds

### lead isotopes

GS chemical elements

. lead (metal)

.. lead isotopes

. nuclides

. . isotopes

... lead isotopes

metals

. lead (metal)

.. lead isotopes

### lead molybdates

lead compounds

lead molybdates

molybdenum compounds

. molybdates

.. lead molybdates

### lead organic compounds

organic compounds

lead organic compounds

. lead acetates

RT ∞ chemical compounds

∞ metal compounds

### lead oxides

GS chalcogenides

. oxides

. . metal oxides

. lead oxides lead compounds

lead oxides

### lead poisoning

GS diseases

. toxic diseases

. lead poisoning

toxicity

lead poisoning

RT occupational diseases

∞ poisoning

### lead selenides

GS chalcogenides

. selenides

. lead selenides

lead compounds . lead selenides

selenium compounds

. selenides

. . lead selenides

#### lead sulfides

GS chalcogenides

. sulfides

. . inorganic sulfides

. lead sulfides

lead compounds lead sulfides

sulfur compounds

. sulfides

. . inorganic sulfides

... lead sulfides

### lead tellurides

GS chalcogenides

. tellurides

. lead tellurides

lead compounds

lead tellurides

tellurium compounds . tellurides

. . lead tellurides

### lead titanates

lead compounds

lead titanates

. lead zirconate titanates

titanium compounds

. titanates

. . lead titanates

... lead zirconate titanates

### lead tungstates

lead compounds GS

lead tungstates

tungsten compounds

. tungstates

.. lead tungstates

## lead zirconate titanates

DEF Dense ceramics with high piezoelectric coefficients and a high relative permittivity.

GS ceramics

lead zirconate titanates

lead compounds . lead titanates

. lead zirconate titanates

titanium compounds

. titanates

. . lead titanates

. lead zirconate titanates

. . zirconium titanates . lead zirconate titanates

zirconium compounds

. zirconium titanates . lead zirconate titanates

ferroelectric materials piezoelectric ceramics

### leaders (meteorology)

(added August 1999)

GS electric current

. electric discharges . . lightning

... leaders (meteorology)

. . . stepped leaders

### leadership

RT morale

personnel management

leading edge flaps

DEF Control surfaces at the leading edges of airfoils. Hinged panels deflected downward to induce and control separation of the air flow.

Krueger flaps UF

GS airfoils . flaps (control surfaces)

. . wing flaps

leading edge flaps brakes (for arresting motion)

. aerodynamic brakes

. . wing flaps

... leading edge flaps

. aircraft brakes

. . wing flaps leading edge flaps

control surfaces . flaps (control surfaces)

. . wing flaps . leading edge flaps

drag devices

. aerodynamic brakes

. . wing flaps

. . . leading edge flaps
RT aircraft structures

vortex flaps

 winged vehicles wings

leading edge slats

UF wing slats

GS airfoils

. flaps (control surfaces)

. . wing flaps

. . . leading edge slats brakes (for arresting motion)

. aerodynamic brakes

. . . wing flaps . . . leading edge slats . aircraft brakes

. . . wing flaps

control surfaces . flaps (control surfaces)

. . wing flaps

drag devices

. aerodynamic brakes

. . wing flaps leading edge slats

RT boundary layer control split flaps

spoilers

trailing edge flaps wing slots

leading edge sweep

GS geometry . Euclidean geometry

. . angles (geometry)

... sweep angle

.... sweepback . . . . leading edge sweep

leading edge thrust The increase in lift produced by highly swept, low-aspect ratio wings which develop a strong separation vortex; however, an even

larger increase in drag is produced.

thrust . leading edge thrust

aerodynamic forces airfoils

leading edges wing loading

leading edges

GS edges

. leading edges . . blunt leading edges

. sharp leading edges airfoils forebodies leading edge thrust thrust distribution

trailing edges vortex flaps wing rock

leaf area index GS ratios

. indexes (ratios)

. . vegetative index

. . leaf area index RT canopies (vegetation)

|  |   | ~~   | 1 ' / 11 1' \   |   |  |
|--|---|--|---|---|--|
|  | crop identification   | GS   | analysis (mathematics)  |   | appendages   |
|  | crop inventories  |  | . numerical analysis  |   | . leg (anatomy)  |
|  | leaves  |  | approximation   |   | feet (anatomy)   |
|  | photosynthetically active radiation   |  | least squares method  |   | knee (anatomy)   |
|  | remote sensing  | RT   | backpropagation (artificial intelligence)   |   | thigh  |
|  | spectral reflectance  |  | correlation   | RT  | femur  |
|  | Spectral reflectance  |  | curve fitting   | 13.1  | gait   |
| lookogo  |   |  | •   |   | <u>.                                    </u>   |
| leakage  |   |  | Gauss-Markov theorem  |   | tibia  |
| RT   | brush seals   |  | mean square values  |   |  |
|  | cavities  | 0  | · methodology   | legal lia   | •  |
|  | cracks  |  | optimization  | GS  | law (jurisprudence)  |
|  | defects   |  | parameter identification  |   | . public law   |
| ~  | escape  |  | quality control   |   | liabilities  |
| -  | fluid flow  |  |   |   | legal liability  |
|  |   |  | regression analysis   | DT  |  |
|  | intrusion   |  | simultaneous equations  | RT  | air law  |
|  | labyrinth seals   |  |   |   | contracts  |
|  | loss of coolant   | leather  |   |   | insurance (contracts)  |
|  | losses  | RT   | clothing  |   | intellectual property  |
|  | permeability  |  | collagens   |   | international law  |
|  |   |  |   |   | judgments  |
|  | pinholes  |  | shoes   |   |  |
|  | porosity  |  | skin (anatomy)  |   | losses   |
| ~  | reduction   |  |   |   | penalties  |
|  | seepage   | leaves   |   |   | prohibition  |
|  | wastes  | RT   | brown wave effect   |   |  |
|  |   |  | canopies (vegetation)   | Legendi   | re code  |
| Loar jot   | aircraft  |  | deciduous trees   | ŬŠE   | computer programming   |
|  |   |  |   | 002   | neutron scattering   |
| GS   | commercial aircraft   |  | defoliants  |   | neutron scattering   |
|  | Lear jet aircraft   |  | defoliation   |   | les franctions   |
|  | jet aircraft  |  | foliage   |   | re functions   |
|  | . Lear jet aircraft   |  | green wave effect   | UF  | Legendre polynomials   |
| RT   | aircraft  |  | herbicides  |   | Legendre transformation  |
| 1(1 ~  | allCraft  |  |   | GS  | analysis (mathematics)   |
|  |   |  | leaf area index   | 00  | . complex variables  |
| learning   | ·   |  | plant physiology  |   |  |
| GS   | learning  |  | plants (botany)   |   | . Legendre functions   |
|  | . astronaut training  |  |   |   | functions (mathematics)  |
|  | . conditioning (learning)   | Lebano   | n   |   | . Legendre functions   |
|  | . habituation (learning)  | GS   | nations   | RT  | orthogonal functions   |
|  |   | 00   | . Lebanon   |   | spherical harmonics  |
|  | . maze learning   |  |   |   | opnonour numorilos   |
|  | . transfer of training  | RT   | Asia  | Logond  | re polynomials   |
| RT   | achievement   |  |   | •   |  |
|  | aptitude  | Lebesg   | ue theorem  | USE   | Legendre functions   |
|  | behavior  | GS   | analysis (mathematics)  |   |  |
|  | child device  |  | . real variables  | Legendi   | re transformation  |
|  |   |  | measure and integration   | USE   | Legendre functions   |
|  | deconditioning  |  |   |   | -  |
|  | education   |  | Lebesgue theorem  | legibilit   | v  |
|  | educational resources   |  | theorems  | RT  | character recognition  |
|  | educational television  |  | . Lebesgue theorem  | 17.1  | S .  |
|  | habits  | RT   | set theory  |   | contrast   |
|  |   |  |   |   |  |
|  |   | IXI  | oot thoory  |   | perception   |
|  | instructors   |  | •   |   | *  |
|  | instructors<br>knowledge  | lectures   | ,<br>S  |   | printing   |
|  | instructors   | lectures<br>UF   | s<br>speeches   |   | printing reading   |
|  | instructors<br>knowledge  | lectures   | ,<br>S  |   | printing reading resolution  |
|  | instructors<br>knowledge<br>memory<br>motivation  | lectures<br>UF   | s<br>speeches   |   | printing reading resolution symbols  |
|  | instructors<br>knowledge<br>memory<br>motivation<br>reinforcement (psychology)  | lectures<br>UF   | s speeches education public speaking  |   | printing<br>reading<br>resolution<br>symbols<br>visibility   |
|  | instructors<br>knowledge<br>memory<br>motivation<br>reinforcement (psychology)<br>responses   | lectures<br>UF   | s speeches education public speaking speech   |   | printing reading resolution symbols  |
|  | instructors<br>knowledge<br>memory<br>motivation<br>reinforcement (psychology)<br>responses<br>retention (psychology)   | lectures<br>UF   | s speeches education public speaking  |   | printing reading resolution symbols visibility vision  |
|  | instructors<br>knowledge<br>memory<br>motivation<br>reinforcement (psychology)<br>responses<br>retention (psychology)<br>students   | lectures<br>UF<br>RT   | speeches education public speaking speech verbal communication  | legumir   | printing reading resolution symbols visibility vision  |
|  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines  | lectures<br>UF<br>RT<br>LED (di  | s speeches education public speaking speech verbal communication odes)  |   | printing reading resolution symbols visibility vision nous plants  |
|  | instructors<br>knowledge<br>memory<br>motivation<br>reinforcement (psychology)<br>responses<br>retention (psychology)<br>students   | lectures<br>UF<br>RT<br>LED (di  | speeches education public speaking speech verbal communication  |   | printing reading resolution symbols visibility vision  nous plants farm crops  |
|  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines  | lectures<br>UF<br>RT<br>LED (di  | s speeches education public speaking speech verbal communication odes)  |   | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants  |
|  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis  | lectures<br>UF<br>RT<br>LED (di  | s speeches education public speaking speech verbal communication odes)  |   | printing reading resolution symbols visibility vision nous plants farm crops leguminous plants soybeans  |
|  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation  | lectures UF RT  LED (di USE  | s speeches education public speaking speech verbal communication odes) light emitting diodes  |   | printing reading resolution symbols visibility vision nous plants farm crops leguminous plants soybeans plants (botany)  |
|  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis  | lectures UF RT  LED (di USE  Leda (adda  | s speeches education public speaking speech verbal communication odes) light emitting diodes  |   | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants soybeans plants (botany) . leguminous plants   |
| Joann's  | instructors<br>knowledge<br>memory<br>motivation<br>reinforcement (psychology)<br>responses<br>retention (psychology)<br>students<br>teaching machines<br>textbooks<br>training analysis<br>training evaluation<br>universities   | lectures UF RT  LED (di USE  Leda (addd DEF  | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at   | GS  | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants . soybeans plants (botany) leguminous plants . soybeans  |
|  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines textbooks training analysis training evaluation universities   | LED (di<br>USE<br>Leda<br>(addd<br>DEF<br>a mean   | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers.  |   | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants soybeans plants (botany) . leguminous plants   |
| RT   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching analysis training analysis training evaluation universities  curves asymptotic methods  | lectures UF RT  LED (di USE  Leda (addd DEF  | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies   | GS  | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants . soybeans plants (botany) leguminous plants . soybeans  |
| RT   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines textbooks training analysis training evaluation universities   | LED (di<br>USE<br>Leda<br>(addd<br>DEF<br>a mean   | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites  | GS  | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany   |
| RT   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching analysis training analysis training evaluation universities  curves asymptotic methods  | LED (di<br>USE<br>Leda<br>(addd<br>DEF<br>a mean   | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies   | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources   |
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| RT ×   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities  J curves asymptotic methods curves machines  | LED (di<br>USE<br>Leda<br>(addd<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda  | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay  |
| RT ×   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities  curves asymptotic methods curves   | LED (di<br>USE<br>Leda<br>(addd<br>DEF<br>a mean   | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites   | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food  |
| RT ©   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching analysis training analysis training evaluation universities  g curves asymptotic methods curves machines machine learning   | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda  | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay  |
| RT « learning USE  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities  curves asymptotic methods curves machines machine learning theory  | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites . Jupiter satellites . Leda Jupiter (planet)   | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany Earth resources food hay nitrogenation nodules  |
| RT « learning USE  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teathooks training analysis training evaluation universities  curves asymptotic methods curves machines machine learning theory child device   | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . Jupiter satellites . Jupiter satellites . Leda Jupiter (planet)   | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany Earth resources food hay nitrogenation  |
| RT « learning USE  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities  curves asymptotic methods curves machines machine learning theory  | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites . Jupiter satellites . Leda Jupiter (planet)   | GS<br>RT  | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables   |
| RT « learning USE  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching evaluation universities  curves asymptotic methods curves machines machine learning  theory child device education  | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)   | GS<br>RT<br>∝<br><b>Leidenf</b>                       | printing reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon  |
| RT « learning USE learning                                     | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teathooks training analysis training evaluation universities  curves asymptotic methods curves machines machine learning theory child device   | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . Jupiter satellites . Jupiter satellites . Leda Jupiter (planet)   | GS<br>RT  | printing reading resolution symbols visibility vision  nous plants farm crops . leguminous plants . soybeans plants (botany) . leguminous plants . soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations  |
| RT « learning USE learning                                     | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching analysis training analysis training evaluation universities  curves asymptotic methods curves  machines machines machine learning  theory child device education problem solving  | LED (di<br>USE<br>Leda<br>(adda<br>DEF<br>a mean<br>GS                                       | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)   | GS<br>RT<br>∝<br><b>Leidenf</b>                       | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing   |
| RT « learning USE learning RT                                  | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching analysis training analysis training evaluation universities  curves asymptotic methods curves  machines machines machine learning  theory child device education problem solving  | LED (di USE  Leda (adde DEF a mean GS  RT  Ledges RT   | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . Jupiter satellites . Jupiter satellites . Leda Jupiter (planet)   | GS<br>RT<br>∝<br><b>Leidenf</b>                       | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing bothony vaporizing bothony crost phenomenon phase transformations   |
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| learning USE learning RT  learning RT  leasing DEF sion of I   | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teaching machines teaching analysis training analysis training evaluation universities  curves asymptotic methods curves machines machines machine learning theory child device education problem solving theories  Contracting for the use and posses-  | LED (di USE  Leda (addd DEF a mean GS  RT  Ledges RT   | s speeches education public speaking speech verbal communication  odes) light emitting diodes  and January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges.   | GS<br>RT<br>•••••••••••••••••••••••••••••••••••       | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing boiling Leidenfrost phenomenon film boiling   |
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| learning USE learning RT  leasing DEF sion of I and fixe GS    | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities grupped asymptotic methods courves machine learning theory child device education problem solving theories  Contracting for the use and possesand, buildings, etc., for a specified time dipayments. procurement learing memory memory contracts  | LED (di USE  Leda (addd DEF a mean GS  RT  Ledges RT   | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents   | RT  Leidenf GS  RT  LEM (lu                           | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing boiling nucleate boiling Luar Module  |
| learning USE learning RT  leasing DEF sion of I and fixe GS    | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities    curves asymptotic methods ourves machine learning   theory child device education problem solving theories    Contracting for the use and possesand, buildings, etc., for a specified time d payments. procurement leasing contracts land use  | LED (di USE  Leda (adda DEF a mean GS  RT  Ledges RT  Led wav DEF stream RT                  | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents   | RT  Leidenf GS  RT  LEM (lu USE                       | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing boiling nucleate boiling Luar Module  |
| learning USE learning RT  leasing DEF sion of I and fixe GS    | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines teathooks training analysis training evaluation universities  J curves asymptotic methods curves machines machine learning  J theory child device education problem solving theories  Contracting for the use and posses-and, buildings, etc., for a specified time d payments. procurement leasing contracts land use NASA programs resources management  | lectures UF RT  LED (di USE  Leda (addd) DEF a mean GS  RT  ledges RT  lee wav DEF stream RT | s speeches education public speaking speech verbal communication odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents atomy) anatomy  | RT  Leidenf GS  RT  LEM (lu USE lemmas                | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing bolling nucleate boiling Luar module) Lunar Module  |
| learning USE learning RT  leasing DEF sion of I and fixe GS    | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities    curves   | lectures UF RT  LED (di USE  Leda (addd) DEF a mean GS  RT  ledges RT  lee wav DEF stream RT | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents  atomy) anatomy . limbs (anatomy)                          | RT  Leidenf GS  RT  LEM (lu USE  lemmas USE           | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing bolling nucleate boiling Luar module) Lunar Module  |
| learning USE learning RT  leasing DEF sion of I and fixe GS RT | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities  is curves asymptotic methods curves machine learning is theory child device education problem solving theories  Contracting for the use and possesand, buildings, etc., for a specified time d payments. procurement  leasing contracts land use NASA programs resources management site selection   | lectures UF RT  LED (di USE  Leda (addd) DEF a mean GS  RT  ledges RT  lee wav DEF stream RT | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents  atomy) . limbs (anatomy) . leg (anatomy)   | RT  Leidenf GS  RT  LEM (lu USE lemmas USE length     | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing boiling nucleate boiling nucleate boiling heat transfer transf |
| learning USE learning RT  leasing DEF sion of I and fixe GS RT | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities    curves asymptotic methods curves machines machine learning     theory child device education problem solving theories    Contracting for the use and possesand, buildings, etc., for a specified time d payments. procurement . leasing contracts land use NASA programs resources management site selection     uares method  | lectures UF RT  LED (di USE  Leda (addd) DEF a mean GS  RT  ledges RT  lee wav DEF stream RT | s speeches education public speaking speech verbal communication  odes) light emitting diodes  ed January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . Jupiter satellites . Jupiter satellites . Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents  atomy) anatomy . limbs (anatomy) feet (anatomy) feet (anatomy) feet (anatomy) | RT  Leidenf GS  RT  LEM (lu USE lemmas USE length DEF | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing boiling nucleate boiling heat transfer transfer transfer transfer theorems  The larger of the two dimensions of the   |
| learning USE learning RT  leasing DEF sion of I and fixe GS RT | instructors knowledge memory motivation reinforcement (psychology) responses retention (psychology) students teaching machines textbooks training analysis training evaluation universities  is curves asymptotic methods curves machine learning is theory child device education problem solving theories  Contracting for the use and possesand, buildings, etc., for a specified time d payments. procurement  leasing contracts land use NASA programs resources management site selection   | lectures UF RT  LED (di USE  Leda (addd) DEF a mean GS  RT  ledges RT  lee wav DEF stream RT | s speeches education public speaking speech verbal communication odes) light emitting diodes  ad January 1996) A natural satellite of Jupiter orbiting at distance of 11,094,000 kilometers. celestial bodies . natural satellites Jupiter satellites Leda Jupiter (planet)  cliffs rocks topography  es Internal waves occurring on the downsides of submarine ridges. air currents barotropic flow surface waves tropospheric waves vertical air currents  atomy) . limbs (anatomy) . leg (anatomy)   | RT  Leidenf GS  RT  LEM (lu USE lemmas USE length     | printing reading reading resolution symbols visibility vision  nous plants farm crops leguminous plants soybeans plants (botany) leguminous plants soybeans agriculture botany Earth resources food hay nitrogenation nodules vegetables frost phenomenon phase transformations vaporizing boiling nucleate boiling heat transfer transfer transfer transfer theorems  The larger of the two dimensions of the   |

|         | . length                                |           | streak cameras                          |   | . islands                                  |
|---------|---|-----------|---|---|--|
|         | diffusion length                        |           | telescopes                              |   | West Indies                                |
| RT      | distance                                |           | vignetting                              |   | Lesser Antilles                            |
|         | thickness                               |           |   | RT                                      | Atlantic Ocean                             |
|         |   | lenticul  | ar bodies                               |   |  |
| Lennar  | d-Jones gas                             | GS        | symmetrical bodies                      | lethality                               | 1  |
| RT      | binary fluids                           |           | . lenticular bodies                     | RT                                      | carbon monoxide poisoning                  |
|         | gas viscosity                           | RT        | axisymmetric bodies                     |   | damage                                     |
|         | Lennard-Jones potential                 | ~         | ∘ bodies                                |   | destruction                                |
|         | ·                                       |           | convexity                               |   |  |
| Lennard | d-Jones potential                       |           | •                                       | lethargy                                | /  |
| RT      | computerized simulation                 | LEO       |   | RT                                      | boredom                                    |
|         | intermolecular forces                   | USE       | low Earth orbits                        | ~                                       | depression                                 |
|         | Lennard-Jones gas                       |           |   |   | detachment                                 |
|         | molecular interactions                  | LEO en    | vironments                              |   | frustration                                |
|         | potential theory                        |           | Earth orbital environments              |   | human behavior                             |
|         | potential theory                        |           |   | ~                                       | inhibition                                 |
| lens an | tennas                                  | Leonard   | lo Logistics Module (ISS)               |   | monotony                                   |
|         | antennas                                | (adde     | ed April 2005)                          |   | e.ieiiiy                                   |
|         | . directional antennas                  | USE       | Multi-Purpose Logistics Modules         | letters (s                              | symbols)                                   |
|         | lens antennas                           |           |   |   | symbols                                    |
|         | . radio antennas                        | Leonid    | meteoroids                              | 002                                     | · · · · · · · · · · · · · · · · · · ·      |
|         |   | GS        | celestial bodies                        | leucine                                 |  |
|         | microwave antennas                      |           | . meteoroid showers                     | GS                                      | acids                                      |
|         | lens antennas                           |           | . Leonid meteoroids                     | 63                                      |  |
|         | microwave equipment                     |           | . meteoroids                            |   | amino acids                                |
|         | . microwave antennas                    |           | Leonid meteoroids                       |   | . leucine                                  |
|         | lens antennas                           |           | Leonia meteorolas                       |   | norleucine                                 |
|         | radio equipment                         | lantana   |   |   | organic compounds                          |
|         | . radio antennas                        | leptons   |   |   | . amino acids                              |
|         | microwave antennas                      | DEF       | •                                       |   | leucine                                    |
|         | lens antennas                           |           | ccording to mass, the lightest of all   |   | norleucine                                 |
| RT      | antenna design                          | particles | s; examples of leptons are the electron |   |  |
| 111     | •                                       | and pos   | sitron.                                 | leukemi                                 | ias  |
|         | dipole antennas                         | GS        | particles                               |   | diseases                                   |
|         | horn antennas                           |           | . elementary particles                  | 00                                      |  |
|         | lenses                                  |           | fermions                                |   | . tumors                                   |
|         | multibeam antennas                      |           | leptons                                 |   | neoplasms                                  |
|         | radar antennas                          |           | antineutrinos                           |   | cancer                                     |
|         | waveguide antennas                      |           |   |   | leukemias                                  |
|         | wire grid lenses                        |           | electrons                               | RT                                      | bone marrow                                |
|         | -                                       |           | conduction electrons                    |   | occupational diseases                      |
| lens de | sian                                    |           | free electrons                          |   |  |
| RT      | antireflection coatings                 |           | high energy electrons                   | leukocy                                 | rtes                                       |
|         | aspheric optics                         |           | relativistic electron beams             | UF                                      | white blood cells                          |
|         | computer aided design                   |           | hot electrons                           | GS                                      | cells (biology)                            |
| ~       | odesign                                 |           | N electrons                             |   | . blood cells                              |
|         |   |           | negatrons                               |   | leukocytes                                 |
|         | gradient index optics                   |           | photoelectrons                          |   | eosinophils                                |
|         | lenses                                  |           | pi-electrons                            |   | ·  |
|         | optical correction procedure            |           | polarons                                |   | lymphocytes                                |
| 0       | optics                                  |           | solar electrons                         |   | monocytes                                  |
|         | product development                     |           |   |   | neutrophils                                |
|         | stigmatism                              |           | muons                                   | RT                                      | . ,  |
|         | zoom lenses                             |           | neutrinos                               |   | blood cell count                           |
|         |   |           | solar neutrinos                         |   | bone marrow                                |
| lenses  |   |           | positrons                               |   | erythrocytes                               |
| DEF     | Transparent optical elements, so con-   | RT        | charged particles                       |   | immune systems                             |
|         | that they serve to change the degree of |           | charm (particle physics)                |   | interleukins                               |
|         |   |           | gluons                                  |   | interiounine                               |
|         | ence of the transmitted rays.           |           | mesons                                  | leukope                                 | onia                                       |
| GS      | lenses                                  |           | partons                                 | GS                                      | signs and symptoms                         |
|         | . aspheric optics                       |           | quantum chromodynamics                  | 63                                      | . leukopenia                               |
|         | . contact lenses                        |           | quark parton model                      | DT                                      |  |
|         | . Fresnel lenses                        |           | quark parton model                      | RT                                      | infectious diseases                        |
|         | . gravitational lenses                  | 1 ES (00  | scape systems)                          |   |  |
|         | . magnetic lenses                       |           | launch escape systems                   | ∞ level                                 |  |
|         | . wide angle lenses                     | USL       | laulich escape systems                  | SN                                      | (USE OF A MORE SPECIFIC TERM IS            |
|         | . wire grid lenses                      | LES (m    | athematics)                             |   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |
|         | . zoom lenses                           |           | ed October 1997)                        | RT                                      | chemical energy                            |
| RT      | astigmatism                             | ,         | ,                                       | • | free energy                                |
|         | cameras                                 | USE       | large eddy simulation                   |   | height                                     |
|         | cataracts                               | 1.50 (    | ( W)                                    |   | internal energy                            |
|         | circumsolar telescopes                  | LES (sa   |   |   |  |
|         |   | USE       | Lincoln Experimental Satellites         |   | level (horizontal)                         |
|         | eye (anatomy)                           |           |   |   | level (quantity)                           |
|         | eyepieces                               | ,         | unar exploration system)                |   |  |
|         | focusing                                | USE       | Lunar Exploration System for            |   | orizontal)                                 |
|         | gradient index optics                   |           | Apollo                                  | GS                                      | level (horizontal)                         |
|         | integrated optics                       |           |   |   | . liquid levels                            |
|         | lens antennas                           | lesions   |   | RT ∝                                    | ∘ grade                                    |
|         | lens design                             | GS        | injuries                                |   | gradients                                  |
|         | magnification                           |           | . lesions                               | 00                                      | evel                                       |
|         | numerical aperture                      |           | pulmonary lesions                       |   | slopes                                     |
|         | optical coatings                        | RT        |   |   | 3.5p00                                     |
|         |   | KI        | abrasion                                | level (a                                | uantity)                                   |
|         | optical equipment                       |           | burns (injuries)                        | level (q                                |  |
|         | optical filters                         |           |   | GS                                      | level (quantity)                           |
|         | optical materials                       | Lesotho   |   |   | . effective perceived noise levels         |
| 0       | optics                                  | GS        | nations                                 |   | . energy levels                            |
|         | panoramic cameras                       |           | . Lesotho                               |   | atomic energy levels                       |
|         | photographic equipment                  | RT        |   |   | electron states                            |
|         | refracting telescopes                   |           | Republic of South Africa                |   | ground state                               |
|         | refraction                              |           |   |   | molecular energy levels                    |
|         | reticles                                | Lesser    | Antilles                                |   | intermolecular forces                      |
|         |   |           |   |   |  |
|         | stigmatism                              | GS        | landforms                               |   | rotational states                          |

|  | vibrational atatas   |   | nal vaarbanataa  |  | arbital reconcessor (coloctial   |
|--|--|---|--|--|--|
|  | vibrational states   |   | polycarbonates   |  | orbital resonances (celestial  |
|  | yrast state<br>amplitudes  |   | Lexan (trademark) esters   |  | mechanics)   |
|  | displacement   |   | . polycarbonates   | LIBS (st   | pectroscopy)   |
|  | flux   |   | Lexan (trademark)  |  | ed June 2001)  |
|  | flux (rate)  | PT ~  | polymers   |  | laser-induced breakdown  |
|  | flux density   | 1(1 *   | resins   |  | spectroscopy   |
|  | intensity  |   | Tooms  |  | operations,  |
|  | level  |   |  | Libya  |  |
|  | loudness   | LFA thru  |  | UF   | Lybia  |
|  | magnitude  |   | ed April 2001)   | GS   | nations  |
|  | value  | USE   | magnetoplasmadynamic thrusters   |  | . Libya  |
|  |  |   |  | RT   | Africa   |
| leveling   |  | LFO   |  |  | To a set   |
|  | (EXCLUDES METAL WORKING)   | USE   | Landsat follow-on missions   | Libyan   |  |
|  | adjusting  |   |  | GS   | land   |
|  | consistency  | liabilitie  | s  |  | . deserts  |
|  | datum (elevation)  | GS  | law (jurisprudence)  | RT   | Libyan desert<br>Africa  |
|  | flattening   |   | . public law   | IXI  | Allica   |
|  | metal working  |   | liabilities  | licensin   | a  |
|  | rolling  |   | legal liability  | GS   | licensing  |
|  | smoothing<br>winding   | RT  | air law  |  | . open source licensing (computers)  |
| ,  | willding   |   | commerce   | RT   | copyrights   |
| levers   |  |   | disciplining   |  | intellectual property  |
|  | cantilever members   |   | losses   |  | patent applications  |
|  | handles  |   | penalties  |  | policies   |
|  | knobs  |   | regulations  |  | regulations  |
|  | machinery  |   |  | P . I  |  |
|  | manual control   | Liapund   | ov functions   | lichens  | plants (hotan: \   |
|  | mechanical devices   | ÜF  | Lyapunov functions   | GS   | plants (botany)  |
| 1  | pedals   | GS  | analysis (mathematics)   | RT   | . lichens<br>algae   |
|  |  |   | . real variables   | KI   | fungi  |
| levitation   |  |   | . Liapunov functions   |  | lacunas  |
|  | levitation   |   | functions (mathematics)  |  | symbiosis  |
|  | . acoustic levitation  |   | Liapunov functions   |  | 3/11010313   |
|  | buoyancy   | RT  | differential equations   | lidar  |  |
|  | electrostatic gyroscopes   |   |  | USE  | optical radar  |
|  | flotation<br>frictionless environments   | Liberia   |  |  | •  |
|  | levitation melting   | GS  | nations  | lie grou   |  |
|  | magnetic bearings  |   | . Liberia  | GS   | algebra  |
|  | magnetic bearings magnetic levitation vehicles   | RT  | Africa   |  | . lie groups   |
|  | suspension systems (vehicles)  |   |  |  | spinor groups  |
|  | vacuum melting   | libraries   | <b>3</b>   |  | geometry   |
|  | · · · · · · · · · · · · · · · ·  | RT  | bibliographies   |  | . differential geometry  |
| levitation   | n melting  |   | catalogs (publications)  |  | lie groups   |
| DEF  | A metallurgical process in which a   |   | data retrieval   | рт   | spinor groups group theory   |
|  | metal placed above a coil carrying a   |   | documentation  | KI   | supergravity   |
|  | uency current can be supported against   |   | documents  |  | supersymmetry  |
|  | y the Lorentz force caused by the  |   | information dissemination  |  | Supersymmeny   |
|  |  |   | information resources management   |  | nstein   |
|  | surface currents in the metal. At the  |   |  | Liechte  |  |
| same time  | surface currents in the metal. At the e, the heat produced by Joule dissipa-   |   | information retrieval  |  | nations  |
| same time  | surface currents in the metal. At the e, the heat produced by Joule dissipasthe metal.   |   | information systems  |  |  |
| same time<br>tion melts<br>GS  | Surface currents in the metal. At the e, the heat produced by Joule dissipast the metal. phase transformations   |   | information systems integrated library systems   | GS   | nations  |
| same time<br>tion melts<br>GS  | surface currents in the metal. At the e, the heat produced by Joule dissipast he metal. bhase transformations  |   | information systems<br>integrated library systems<br>interservice data exchange program  | GS<br>RT   | nations<br>. <b>Liechtenstein</b><br>Europe  |
| same time<br>tion melts<br>GS  | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. phase transformations . melting levitation melting  |   | information systems<br>integrated library systems<br>interservice data exchange program<br>literature  | GS<br>RT<br><b>Lienard</b>   | nations . Liechtenstein Europe potential   |
| same time<br>tion melts<br>GS I  | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. phase transformations melting levitation melting electric current   |   | information systems<br>integrated library systems<br>interservice data exchange program<br>literature<br>museums   | GS<br>RT<br><b>Lienard</b>   | nations . Liechtenstein Europe  potential potential energy   |
| same time<br>tion melts<br>GS p<br>RT (  | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. phase transformations melting levitation melting electric current external surface currents   | ۰   | information systems<br>integrated library systems<br>interservice data exchange program<br>literature<br>museums<br>reference systems  | GS<br>RT<br><b>Lienard</b>   | nations . Liechtenstein Europe  potential potential energy . electric potential  |
| same time<br>tion melts<br>GS p<br>RT e  | surface currents in the metal. At the e, the heat produced by Joule dissipase the metal. phase transformations melting levitation melting electric current external surface currents levitation  | ۰   | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information  | GS<br>RT<br><b>Lienard</b><br>GS                                       | nations . Liechtenstein Europe  potential potential energy . electric potential Lienard potential  |
| same timition melts GS   RT   RT   RT   RT   RT   RT   RT   R  | surface currents in the metal. At the e, the heat produced by Joule dissipation the metal.  phase transformations  melting  lectric current external surface currents levitation liquid metals   | ۰   | information systems<br>integrated library systems<br>interservice data exchange program<br>literature<br>museums<br>reference systems  | GS<br>RT<br><b>Lienard</b>   | nations . Liechtenstein Europe  potential potential energy . electric potential . Lienard potential electric current   |
| same time tion melts GS     RT   | surface currents in the metal. At the e, the heat produced by Joule dissipase the metal. phase transformations melting levitation melting electric current external surface currents levitation  | ۰   | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks  | GS<br>RT<br><b>Lienard</b><br>GS                                       | nations . Liechtenstein Europe  potential potential energy . electric potential Lienard potential  |
| same time tion melts GS  | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. So the metal. So the metal. So the metal. So the metal. So the metal so  |   | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers   | GS<br>RT<br><b>Lienard</b><br>GS                                       | nations . Liechtenstein Europe  potential potential energy . electric potential . Lienard potential electric current   |
| same time tion melts GS  | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. phase transformations melting levitation melting electric current external surface currents levitation liquid metals low gravity manufacturing magnetic suspension  | libratio  | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers   | GS<br>RT<br><b>Lienard</b><br>GS<br>RT                                 | nations . Liechtenstein Europe  potential potential energy . electric potential . Lienard potential electric current electric fields   |
| same time tion melts GS     RT   | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. So the metal. So the metal. So the metal. So the metal. So the metal so  | libration<br>DEF  | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers  A real or apparent oscillatory motion,   | GS<br>RT<br>Lienard<br>GS<br>RT  | nations Liechtenstein Europe  potential potential energy electric potential Lienard potential electric current electric fields  galvanic skin response   |
| same time tion melts GS   RT   | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal. Phase transformations . melting levitation melting electric current external surface currents levitation liquid metals low gravity manufacturing magnetic suspension metallurgy obhmic dissipation resistance heating space manufacturing   | libration<br>DEF<br>particula   | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers  A real or apparent oscillatory motion, orly the apparent oscillation of the moon.  | GS<br>RT<br>Lienard<br>GS<br>RT  | nations . Liechtenstein Europe  potential potential energy . electric potential . Lienard potential electric current electric fields   |
| same time tion melts GS   RT   | surface currents in the metal. At the e, the heat produced by Joule dissipation the metal.  phase transformations  melting  lectric current external surface currents levitation diquid metals low gravity manufacturing magnetic suspension metallurgy ohmic dissipation resistance heating   | libration<br>DEF<br>particula<br>Because  | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers  A real or apparent oscillatory motion, rify the apparent oscillation of the moon. e of libration more than half of the   | GS<br>RT<br>Lienard<br>GS<br>RT<br>lies                                | nations Liechtenstein Europe  potential potential energy electric potential Lienard potential electric current electric fields  galvanic skin response   |
| same time tion melts GS   RT   | surface currents in the metal. At the e, the heat produced by Joule dissipate the metal.  phase transformations  melting  levitation melting electric current external surface currents levitation liquid metals low gravity manufacturing magnetic suspension metallurgy ohmic dissipation resistance heating space manufacturing space processing  | libration<br>DEF<br>particula<br>Because<br>moon's  | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers  A real or apparent oscillatory motion, inty the apparent oscillation of the moon. of libration more than half of the surface is revealed to an observer on the   | GS<br>RT<br>Lienard<br>GS<br>RT<br>lies<br>RT                          | nations . Liechtenstein Europe  potential potential energy . electric potential Lienard potential electric current electric fields  galvanic skin response mental performance  |
| same time tion melts GS   RT   | surface currents in the metal. At the e, the heat produced by Joule dissipation the metal.  phase transformations  melting  lectric current external surface currents levitation liquid metals low gravity manufacturing magnetic suspension metallurgy ohmic dissipation resistance heating space manufacturing space processing  | libration DEF particula Because moon's Earth ev   | information systems integrated library systems interservice data exchange program literature museums reference systems selective dissemination of information textbooks world data centers  A real or apparent oscillatory motion, rify the apparent oscillation of the moon. e of libration more than half of the   | GS<br>RT<br>Lienard<br>GS<br>RT<br>lies<br>RT<br>LIF (fluo<br>USE      | nations Liechtenstein Europe  potential potential energy electric potential Lienard potential electric current electric fields  galvanic skin response mental performance  prescence) laser induced fluorescence   |
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| ∞ longevity                                    | long term effects  | pressure distribution                               |
|--|--|---|
| Mills ratio                                    | lunar environment  | sweep effect  |
|  |  |   |
| MTBF   | lunar logistics  | under surface blowing                               |
| ∞ resistance                                   | lunar shelters   | upper surface blowing                               |
|  |  | apper canado bioning                                |
| retirement for cause                           | manned maneuvering units                                   |   |
| systems health monitoring                      | ∞ nutrients  | lift augmentation                                   |
| vulnerability                                  | onboard equipment  | RT boundary layer control                           |
| vaniorability                                  |  |   |
|  | oxygen masks   | circulation control airfoils                        |
| life cycle costs                               | oxygen supply equipment                                    | downwash  |
| DEF The sum of the acquisition costs and       | planetary environments                                     |   |
|  |  | peripheral jet flow                                 |
| maintenance costs for the life of a system.    | pressure suits   | spanwise blowing                                    |
| GS costs                                       | pressurized cabins   | STOVL aircraft                                      |
|  |  |   |
| life cycle costs                               | provisioning   | tangential blowing                                  |
| RT concurrent engineering                      | rebreathing  | upper surface blown flaps                           |
| cost analysis                                  | Service Module (ISS)                                       |   |
|  |  | vortex flaps  |
| cost effectiveness                             | space flight feeding                                       |   |
| design to cost                                 | space habitats   | lift acofficients                                   |
| financial management                           | spacecraft environments                                    | lift coefficients                                   |
|  | ·  | USE aerodynamic coefficients                        |
| management planning                            | survival   | lift  |
| production costs                               | ∞ sustaining   | III C   |
| systems engineering                            |  |   |
|  | ∞ systems  | lift devices  |
| value engineering                              | thermal environments                                       |   |
|  | underwater breathing apparatus                             | UF lifting surfaces                                 |
| life detectors                                 |  | RT boundary layer control                           |
|  | vapor barrier clothing                                     | ∞ devices   |
| RT biomarkers                                  | ventilation  |   |
| biosatellites                                  | waste management   | direct lift controls                                |
|  |  | drag devices  |
| ∞ detectors                                    | water  |   |
| extraterrestrial life                          | weightlessness   | externally blown flaps                              |
|  | Weightieseness   | flaps (control surfaces)                            |
| 116  | Pt. L t.   | magnetic levitation vehicles                        |
| life rafts                                     | lifeboats  |   |
| GS rafts                                       | GS surface vehicles  | slots   |
|  |  | upper surface blown flaps                           |
| . life rafts                                   | . boats  | apper surface blown haps                            |
| RT floats                                      | lifeboats  |   |
| inflatable structures                          | water vehicles   | lift distribution                                   |
|  |  |   |
| lifeboats                                      | . boats  | USE force distribution                              |
|  | lifeboats  | lift  |
| life esienese                                  |  |   |
| life sciences                                  | RT Assured Crew Return Vehicle                             |   |
| DEF A collective discipline encompassing       | life rafts   | lift drag ratio                                     |
| biology, physiology, psychology, medicine, and |  |   |
|  | rafts  | DEF The ratio of lift to drag obtained by           |
| sometimes sociology and other related areas.   | survival equipment   | dividing the lift by the drag or the lift coefficie |
| Used for life (biology).                       | X-38 crew return vehicle                                   | by the drag coefficient. Used for drag balance      |
| UF life (biology)                              | X-30 Clew return vehicle                                   |   |
| ( 0)/  |  | UF drag balance                                     |
| GS life sciences                               | lifetime (durability)                                      | GS ratios   |
| . extraterrestrial life                        | USE life (durability)                                      |   |
|  | OOL me (durability)  | . lift drag ratio                                   |
| . molecular biology                            |  | RT aerodynamic balance                              |
| RT abiogenesis                                 | lift   | aerodynamic coefficients                            |
| 9  | DEF That component of the total aerody-                    |   |
| aging (biology)                                |  | aerodynamic drag                                    |
| biological evolution                           | namic force acting on a body perpendicular to              | aerodynamic stalling                                |
| ∞ biology                                      | the undisturbed airflow relative to the body. To           |   |
|  |  | boundary layer separation                           |
| chemical evolution                             | lift off, to take off in vertical ascent. Said of rocket   | drag reduction                                      |
| environmental engineering                      | vehicles. Used for aerodynamic lift, lift coeffi-          | force distribution                                  |
|  | cients, lift distribution, lift forces, and variable lift. |   |
| neurology                                      |  | pressure ratio                                      |
| ∞ physical sciences                            | UF aerodynamic lift  | •   |
| psychopharmacology                             | lift coefficients  |   |
|  |  | lift fans   |
| ∞ science                                      | lift distribution  | UF fanlift devices                                  |
|  | lift forces  |   |
| life annual                                    | variable lift  | RT ducted fans                                      |
| life span                                      |  | fan in wing aircraft                                |
| SN (LIMITED TO THE LIFE SCIENCES)              | GS aerodynamic characteristics                             |   |
| RT age factor                                  | lift   | lifting rotors                                      |
| •  |  | propeller fans                                      |
| aging (biology)                                | interference lift  | rotary wings  |
| death  | jet lift   |   |
| existence                                      | rotor lift   | short takeoff aircraft                              |
|  |  | turbofans   |
| gerontology                                    | zero lift  |   |
| ∞ longevity                                    | aerodynamic forces   | vertical takeoff aircraft                           |
|  | •  | XV-11A aircraft                                     |
| mortality                                      | . lift   |   |
| ∞ span   | interference lift  |   |
| -F   |  | lift forces   |
|  | jet lift   |   |
| life support systems                           | rotor lift   | USE lift  |
| GS support systems                             | zero lift  |   |
|  |  |   |
| . life support systems                         | dynamic characteristics                                    | lifting bodies                                      |
| biopaks  | . lift   | UF lifting surfaces                                 |
|  |  |   |
| closed ecological systems                      | interference lift  | GS lifting bodies                                   |
| emergency life sustaining systems              | jet lift   | . lifting reentry vehicles                          |
| AEPS   | rotor lift   | FDL-5 reentry vehicle                               |
|  |  |   |
| portable life support systems                  | zero lift  | HL-10 reentry vehicle                               |
| AEPS   | RT aerodynamic coefficients                                | . HLD-35 reentry vehicle                            |
|  |  |   |
| IMLSS  | aerodynamic configurations                                 | Janus spacecraft                                    |
| RT aerospace environments                      | aerodynamic drag   | M-2 lifting body                                    |
| air conditioning                               | aerodynamics   | M-2F2 lifting body                                  |
|  |  |   |
| artificial gravity                             | airfoils   | X-20 aircraft                                       |
| astronaut locomotion                           | angle of attack  | X-24 aircraft                                       |
|  |  |   |
| ∞ atmospheres                                  | aspect ratio   | . M-2F3 lifting body                                |
| biosatellites                                  | camber   | RT aerodynamic configurations                       |
|  |  | , ,   |
| breathing apparatus                            | distribution (property)                                    | airfoils  |
| Chlorella                                      | drag   | bluff bodies  |
| environmental engineering                      | externally blown flaps                                     | ∞ bodies  |
| 5 5  | ·  |   |
| environments                                   | gliding  | ∞ devices   |
| exobiology                                     | ground effect (aerodynamics)                               | lunar flying vehicles                               |
|  | hypersonic forces  |   |
| extravehicular mobility units                  | DVDEISONIC TOTCES  | reentry vehicles                                    |
|  |  |   |
| human factors engineering                      | leading edge thrust  | towed bodies  |

waveriders chemical composition visible spectrum coordination number lifting reentry vehicles light absorption USE electromagnetic absorption UF reentry gliders light (visible radiation) space gliders Visible radiation (about 0. 4 to 0. 7 light adaptation lifting bodies microns in wavelength) considered in terms of GS adaptation . lifting reentry vehicles its luminous efficiency, i.e., evaluated in propor-. . FDL-5 reentry vehicle . . HL-10 reentry vehicle . retinal adaptation tion to its ability to stimulate the sense of sight. .. light adaptation Used for optical spectrum and visible radiation. sensitivity . photosensitivity . . HLD-35 reentry vehicle optical spectrum Janus spacecraft visible radiation . light adaptation . . M-2 lifting body GS electromagnetic radiation flash blindness . . . M-2F2 lifting body RT . light (visible radiation) .. X-20 aircraft night vision . . coherent light . . X-24 aircraft pupillometry . . gegenschein reentry vehicles thresholds (perception) polarized light . maneuverable reentry bodies vision . . sky radiation ... lifting reentry vehicles . . . airglow . . . FDL-5 reentry vehicle Light Airborne Multipurpose System . . . . geocoronal emissions . . . HL-10 reentry vehicle UF LAMPS program . . . . nightglow GS navigation aids . . . HLD-35 reentry vehicle . . . . twilight glow . Light Airborne Multipurpose Janus spacecraft . dayglow . . . M-2 lifting body System . . . elves onboard equipment . . . . M-2F2 lifting body . sprites (atmospheric physics) ... X-20 aircraft . airborne equipment . . sunlight Light Airborne Multipurpose . . X-24 aircraft . zodiacal light RT aerospace planes System RT atmospheric radiation RT aircraft equipment ∞ aircraft attenuation flight instruments ASSET gliders beams (radiation) Astro vehicle navigation instruments black body radiation boostglide vehicles svstems brightness aliders HOPE aerospace plane hypersonic gliders Cerenkov radiation light aircraft coherent electromagnetic radiation GS light aircraft coherent radiation . Beech 99 aircraft manned reentry color Beechcraft 18 aircraft manned spacecraft critical frequencies . . C-33 aircraft recoverable spacecraft darkness . C-35 aircraft reentry dichroism Cessna 172 aircraft spacecraft reentry electromagnetic spectra . Cessna 205 aircraft lifting rotors energy absorption . Cessna 210 aircraft excitons airfoils Cessna 402B aircraft GS extraterrestrial radiation Cessna L-19 aircraft . wings . . rotary wings DH 125 aircraft geometrical optics . DO-27 aircraft . . . . bearingless rotors rotating bodies glare . DO-28 aircraft illuminance . F-28 helicopter incandescence Firebee 2 target drone aircraft . rotors . G-1 aircraft . . rotary wings infrared radiation light curve ... lifting rotors . light helicopters lighting equipment . . OH-4 helicopter . . bearingless rotors OH-5 helicopter OH-6 helicopter line spectra ground effect machines lumens lift fans luminaires OH-58 helicopter rotary wing aircraft luminance light intratheater transport short takeoff aircraft luminescence MH-262 aircraft vertical takeoff aircraft luminosity . Mystere 20 aircraft luminous intensity lifting surfaces OH-13 helicopter lift devices monochromatic radiation USE OH-23 helicopter lifting bodies near infrared radiation PD-808 aircraft near ultraviolet radiation surfaces . Piper aircraft opacity PA-34 Seneca aircraft liftoff (launching) optical depolarization Saab 105 aircraft GS launching optical emission spectroscopy SC-7 aircraft . rocket launching optical measurement U-10 aircraft .. liftoff (launching) optical properties . VZ-8 aircraft . spacecraft launching ∞ optics RT agricultural aircraft . liftoff (launching) photics ∞ aircraft booster rocket engines photometry biplanes countdown drone aircraft photons launching pads photonuclear reactions general aviation aircraft rocket firing photoperiod ∞ low wing aircraft rocket thrust photophilic plants ∞ military aircraft photophoresis observation aircraft ∞ lifts photosensitivity passenger aircraft (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) planetary radiation pilotless aircraft polarized electromagnetic radiation reconnaissance aircraft polarizers submersible aircraft RT conveyors radiation ∞ subsonic aircraft cranes elevators (lifts) Raman spectra training aircraft reflection transport aircraft escalators refraction ultralight aircraft jacks (lifts) refractivity utility aircraft winches shadows water takeoff and landing aircraft sky brightness ligaments solar radiation light alloys connective tissue RT thermal radiation GS allovs joints (anatomy)

transmittance ultraviolet spectra

visibility

. light alloys

. . aluminum alloys

. . . aluminum-lithium alloys

ligands

RT chemical bonds

|                   | beryllium alloys                   | auroral absorption                              |           | ultrasonic light modulation  |
|-------------------|------------------------------------|---|-----------|--|
|                   | magnesium alloys                   | auroral ionization                              | RT        | amplitude modulation   |
| RT ∝              | metallurgy                         | auroral spectroscopy                            | 131       | Bragg cells  |
|                   | metals                             | auroras   |           | deformable mirrors   |
|                   |                                    | diffraction radiation                           |           | electro-optical effect   |
| light am          | plifiers                           | dimming   |           | frequency modulation   |
| UF                | optical amplifiers                 | electromagnetic radiation                       |           | Kerr electrooptical effect   |
| GS                | amplifiers                         | linear polarization                             |           | lasers   |
|                   | light amplifiers                   | ∞ optics  |           | light modulators   |
| RT                | fiber lasers                       | self sustained emission                         |           | light valves   |
|                   | four-wave mixing                   | sky brightness                                  |           | modulators   |
|                   | HCN lasers                         | spectral emission                               |           | optical heterodyning   |
|                   | image converters                   | stimulated emission                             |           | optical resonators   |
|                   | image enhancement                  | white holes (astronomy)                         |           | optical switching  |
|                   | image intensifiers                 |   | ~         | optics   |
|                   | Lallemand cameras                  | light emitting diodes                           |           | polarization modulation  |
|                   | laser cavities                     | DEF Pn junction semiconductor devices           |           | pulse modulation   |
|                   | laser microscopy                   | that emit incoherent optical radiation when bi- |           | traveling wave modulation  |
|                   | lasers                             | ased in the forward direction. Used for LED     |           | tunable lasers   |
|                   | microchannels                      | (diodes).<br>UF <i>LED (diodes)</i>             | light me  | adulatora  |
| ~                 | optics                             | GS electronic equipment                         |           | odulators  |
|                   | photocathodes quantum amplifiers   | . diodes  |           | ed September 1995)<br>modulators   |
|                   | ultrashort pulsed lasers           | semiconductor diodes                            | 63        | . light modulators   |
|                   | ultraviolet lasers                 | light emitting diodes                           | RT        | acousto-optics   |
|                   | all aviolot lacolo                 | . solid state devices                           | 111       | electro-optics   |
| light arn         | ned reconnaissance aircraft        | semiconductor devices                           |           | light modulation   |
|                   |                                    | light emitting diodes                           |           | magneto-optics   |
|                   |                                    | optoelectronic devices                          |           | optical data processing  |
| light be          | ams                                | light emitting diodes                           |           |  |
| UF                | light probes                       | RT aircraft instruments                         | light pre | essure   |
| GS                | beams (radiation)                  | alphanumeric characters                         | USE       | illuminance  |
|                   | . light beams                      | display devices                                 |           |  |
|                   | laser beams                        | electroluminescence                             | light pro | bes  |
|                   | electromagnetic radiation          | fiber optics                                    | USE       | light beams  |
|                   | . light beams                      | luminescence                                    |           |  |
|                   | laser beams                        | photonics                                       | light sc  |  |
| RT                | Bragg cells                        | surface emitting lasers                         | GS        | scattering   |
|                   | four-wave mixing                   |   |           | . wave scattering  |
|                   | optical waveguides                 | light gas guns                                  |           | electromagnetic scattering   |
|                   | photon beams                       | GS gas guns                                     |           | light scattering   |
|                   | rare gas-halide lasers             | light gas guns                                  |           | halos  |
| liaht hul         | ha                                 | RT hypervelocity projectiles                    |           | transmission   |
| light bull<br>USE | luminaires                         | light halicenters                               |           | <ul><li>. electromagnetic wave transmission</li><li>. light transmission</li></ul> |
| USE               | lullillailes                       | light helicopters                               |           | light scattering   |
| light cor         | nmunication                        | (added June 1989)<br>GS light aircraft          |           | halos  |
| •                 | optical communication              | GS light aircraft . <b>light helicopters</b>    |           | . wave propagation   |
| 002               | option communication               | OH-4 helicopter                                 |           | . light scattering   |
| light cu          | rve                                | . OH-5 helicopter                               |           | halos  |
|                   | curves                             | OH-6 helicopter                                 | RT        | afterglows   |
|                   | light (visible radiation)          | . OH-58 helicopter                              |           | atmospheric scattering   |
|                   | stellar radiation                  | V/STOL aircraft                                 |           | bidirectional reflectance  |
|                   |                                    | . rotary wing aircraft                          |           | Brillouin effect   |
| light dur         | ation                              | helicopters                                     |           | circumsolar radiation  |
| USE               | flash                              | light helicopters                               |           | diffuse radiation  |
|                   | pulse duration                     | OH-4 helicopter                                 |           | electromagnetic absorption   |
|                   |                                    | OH-5 helicopter                                 |           | forward scattering   |
| light ele         |                                    | OH-6 helicopter                                 |           | gravitational lenses   |
| GS                | chemical elements                  | OH-58 helicopter                                |           | infrared absorption  |
| БТ                | light elements                     | RT ∞ aircraft                                   |           | optical coatings   |
| RT∝               | elements                           | military helicopters                            |           | Rayleigh scattering  |
|                   | low density materials              | observation aircraft                            |           | reflection nebulae   |
| light am          | viesion                            | Parist internality                              |           | scatter plates (optics)  |
| light em          |                                    | light intensity                                 |           | speckle patterns   |
| UF<br>GS          | optical emission<br>emission       | USE luminous intensity                          |           | transmissivity tropospheric scattering   |
| GS                | . light emission                   | light intrathoator transport                    |           |  |
|                   | . incandescence                    | light intratheater transport  GS light aircraft |           | Umkehr effect  |
|                   | luminescence                       | . light intratheater transport                  | light sc  | attering meters  |
|                   | bioluminescence                    | transport aircraft                              | GS        | measuring instruments  |
|                   | cathode glow                       | . light intratheater transport                  | 00        | . optical measuring instruments  |
|                   | cathodoluminescence                | RT ∞ aircraft                                   |           | light scattering meters  |
|                   | chemiluminescence                  | COIN aircraft                                   |           | optical equipment  |
|                   | electroluminescence                |   |           | . optical measuring instruments  |
|                   | fluorescence                       | light ions                                      |           | . light scattering meters  |
|                   | laser induced fluorescence         | DEF lons of helium, boron, and other ele-       | RT        | meteorological instruments   |
|                   | phosphorescence                    | ments used in implantation experiments.         |           | -  |
|                   | resonance fluorescence             | GS ions   | light so  | urces  |
|                   | x ray fluorescence                 | . light ions                                    | GS        | light sources  |
|                   | lunar luminescence                 | RT chemical elements                            |           | . illuminators   |
|                   | optical resonance                  | heavy ions                                      | RT        | arc lamps  |
|                   | photoluminescence                  | plasmas (physics)                               |           | cathodoluminescence  |
|                   | triboluminescence                  | limbt medulatio-                                |           | dayglow  |
|                   | x ray fluorescence                 | light modulation                                |           | duochromators  |
|                   | shock wave luminescence            | UF optical maser modulation                     |           | electric arcs  |
|                   | sonoluminescence                   | optical modulation GS modulation                |           | electroluminescence  |
|                   | spacecraft glow thermoluminescence | GS modulation . light modulation                |           | flash lamps  |
| RT                | airglow                            | . Miros system                                  |           | glow discharges<br>HCN lasers  |
| 13.1              | a g. 3 11                          | wiii oo ayatam                                  |           |  |

heat sources UF protium elves illuminating GS hydrogen compounds gas discharges light water lightning suppression lighting equipment nitrogenation luminaires . light water radiative recombination mercury lamps sprites (atmospheric physics) monochromators light water breeder reactors static electricity moon GS nuclear reactors thunderstorms plasma display devices . breeder reactors whistlers point sources . light water breeder reactors heavy water reactors lightning suppression porous silicon weather modification radiation sources light water reactors . lightning suppression sun DEF Nuclear reactors using ordinary (rather atmospheric electricity light speed than heavy) water as moderator. climatology GS rates (per time) GS nuclear reactors electric discharges . light speed . liquid cooled reactors lightning velocity . . water cooled reactors thunderstorms light speed . . light water reactors high speed water moderated reactors lights relativistic velocity USE **luminaires** light-cone expansion Schwarzschild metric field theory (physics) lignin light transmission Minkowski space That part of plant material which is not UF optical absorption saccharified by the action of 72 percent sulfuric quantum mechanics GS transmission acid or 42 percent hydrochloric acid, after the relativity . electromagnetic wave transmission space-time functions resins, waxes, and tannins have been removed. .. light transmission GS biopolymers ... light scattering Lighthill gas model lignin models . halos GS cellulose RT absorptance Lighthill gas model ∞ polymers atmospheric optics boundary layer flow atmospheric refraction gas mixtures lignite Fermat principle gas transport Coal of relatively recent origin, an infiber optics hypersonic flow termediate between peat and bituminous coal. flicker molecular theory transport properties . chemical fuels gamma ray lasers . . hydrocarbon fuels deometrical optics Lighthill method . . . fossil fuels haze holographic optical elements illuminating RT airfoil profiles . . . . coal airfoils .... lignite resources conformal mapping integrated optics flow theory . Earth resources integral transformations . . fossil fuels lasers low visibility ∞ methodology . . . coal ... lignite molecular absorption lighting rocks opacity USE illuminating optical bistability . sedimentary rocks . . carbonaceous rocks optical coupling lighting equipment optical properties . . . coal lighting equipment optical reflection ... lignite illuminators optical waveguides ashes . luminaires rainbows bitumens . . aircraft lights Sagnac effect carbonaceous materials . . airport lights squeezed states (quantum theory) coal gasification . runway lights stimulated emission devices coal liquefaction . arc lamps thermochromic coatings coal utilization . . flash lamps translucence coke . . . alkali vapor lamps transparence energy conversion . . mercury lamps turbidity energy policy ultraviolet lasers energy technology searchlights gaseous fuels visibility xenon lamps hydrocarbon fuel production wave dispersion  $RT \, {\it \infty} \, electric \, \, equipment \, \,$ hydrogen production wave propagation ∞ equipment hydropyrolysis light transport aircraft ∞ flares synthane DEF A classification of multiengine airilluminating light (visible radiation) planes having a maximum passenger capacity LIGO (observatory) light sources (added December 2000) of 30 seats and a gross weight of about 35,000 onboard equipment Laser Interferometer pounds. waste energy utilization Gravitational-Wave Observatory GS commercial aircraft light transport aircraft antennas lightning . gravitational wave antennas transport aircraft DEF A discharge of atmospheric electricity . . LIGO (observatory) light transport aircraft acommpanied by a vivid flash of light. RT ∞ aircraft observatories multiengine vehicles GS electric current . astronomical observatories passenger aircraft . electric discharges LIGO (observatory) . . lightning astronomical interferometry gravitational waves laser interferometry . . . ball lightning light valves . . . cloud-to-cloud discharges Optical shutters which, when activated by light, become either transparent or opaque. cloud-to-ground discharges intracloud discharges electro-optics likelihood ratio . . . leaders (meteorology) light modulation The probability of a random drawing of a specified sample from a population, assuring a given hypothesis about the parameters of the liquid crystals ... stepped leaders RT ∞ arresters

atmospheric electricity

electrodeless discharges

electric arcs

electricity

electric sparks

population, divided by the probability of a random drawing of the same sample, assuring that the parameters of the population are such that

this probability is maximized.

GS ratios

light water

for protium.

optical data processing

DEF Water in which both hydrogen atoms in

each molecule are of the isotope protium. Used

|                                     | . likelihood ratio  | Earth resource  | es                         |                    | minerals   |
|-------------------------------------|---|---|----------------------------|--------------------|--|
|                                     | statistical analysis  | fluxes  |                            |                    | . limonite   |
|                                     | . likelihood ratio  | minerals  |                            |                    |  |
| RT                                  | estimates   | schist<br>  | Li                         |                    | Experimental Satellites  |
|                                     | Fisher information  | soils   |                            |                    | LES (satellites)   |
|                                     | mathematical models maximum likelihood estimates  | limitations   |                            | GS                 | artificial satellites . Lincoln Experimental Satellites  |
|                                     | probability theory  | USE constraints   |                            |                    | . Lincom Experimental Satemites  |
|                                     | statistical tests   | OCE CONCINUING  | lir                        | ne cur             | rent   |
|                                     | Statistical tests   | limiter amplifiers  |                            |                    | electric current   |
|                                     | ghtening  | GS amplifiers   |                            |                    | . line current   |
|                                     | The increase in the intensity of radio or   | . limiter amp   | lifiers                    | RT                 | electric power supplies  |
|                                     | ghtness of the sun or other stars from its  | limiter circuits  |                            |                    | electrodynamics  |
|                                     | its limb.   | GS circuits   |                            |                    | magnetohydrodynamic flow   |
| KI                                  | B stars<br>brightness   | . limiter circi   | uits                       |                    | plasma currents<br>power supplies  |
|                                     | brightness temperature  | clipper circ  |                            | ~                  | power supplies   |
| ∞                                   | limbs   | RT circulators (pl  | hase shift circuits)       | ne of s            | sight  |
|                                     | solar flux  | clamping circ   | uits                       |                    | An aim or observation taken with me-   |
|                                     | solar flux density  | current regula  |                            |                    | I or optical aid to establish a direct path  |
|                                     | solar granulation   | power limiters  | i to                       |                    | ojective, target, etc.   |
|                                     | solar limb  | limiters (fusion react  | ors)                       | RT                 | area   |
|                                     | stellar atmospheres   |   | ture in fusion power reac- |                    | coordinates  |
|                                     | stellar luminosity  |   | ticles from the outer sur- | ~                  | odirection<br>loci   |
| limb dar                            | rkening   |   | control their transport to |                    | proportional navigation  |
|                                     | A condition, sometimes observed on  | regions of low density.   |                            |                    | targets  |
|                                     | bodies, in which the brightness of the  | RT blankets (fusi   | ,                          |                    | g  |
| object de                           | ecreases as the edges or limbs of the   | controlled fus  |                            | ne of s            | sight communication  |
|                                     | re approached. The sun and Jupiter  | divertors (fusi   | ,                          |                    | Electromagnetic wave propagation,  |
|                                     | mb darkening.   | fusion reactor  | , ,, ,                     |                    | microwaves, in a straight line between   |
| GS                                  | darkening   | moderators  |                            |                    | smitter and receiver. The useful trans-  |
| RT                                  | . limb darkening<br>B stars   | plasma contro   |                            |                    | distance is generally limited to the hori-   |
| KI                                  | binary stars  | plasma loss   | 20                         | on as :<br>nitter. | sighted from the elevation of the trans-   |
| ∞                                   | limbs   | reactor design  |                            | GS                 | telecommunication  |
|                                     | solar limb  | reactor mater   | ials                       |                    | . communication  |
|                                     | stellar atmospheres   | tokamak devi  |                            |                    | line of sight communication  |
|                                     | stellar luminosity  | toroidal plasn  | nas                        | RT                 | boresight error  |
|                                     |   | walls   |                            |                    | frequency modulation   |
| limbs<br>SN                         | (LIGE OF A MODE OPEOISIO TERM IO  | ∞ limits  |                            |                    | space communication  |
| SIN                                 | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  |   | RE SPECIFIC TERM IS        |                    | television transmission  |
|                                     | LISTED BELOW)   | RECOMMENDE  | EDCONSULT THE TERMS        | ne sha             | ana  |
| RT                                  | Earth limb  | LISTED BELOV<br>RT ignition limits  | v)                         |                    | shapes   |
|                                     | limb brightening  | limits (mather  | matics)                    | 00                 | . line shape   |
|                                     | limb darkening<br>limbs (anatomy)   | range (extren   |                            | RT                 | curves (geometry)  |
|                                     | lunar limb  | 9- (  | ,                          |                    | inflection points  |
|                                     | planetary limb  | limits (mathematics)  |                            | ~                  | o profiles   |
|                                     | solar limb  | GS analysis (mat  |                            |                    |  |
|                                     |   | . calculus  |                            | ne spe             |  |
|                                     | natomy)   | limits (ma  | inomatioo,                 |                    | The spontaneous emission of electro-<br>c radiation from the bound electrons as  |
| GS                                  | anatomy   | . real variable<br>extremum   |                            |                    | np from high to low energy levels in an  |
|                                     | . limbs (anatomy) arm (anatomy)   | limits (m   |                            |                    | sed for spectral lines.  |
|                                     | elbow (anatomy)   | RT differential ca  |                            |                    | spectral lines   |
|                                     | forearm   | ∞ envelopes   |                            | GS                 | spectra  |
|                                     | hand (anatomy)  | ∞ limits  |                            |                    | . radiation spectra  |
|                                     | fingers   |   |                            |                    | . electromagnetic spectra  |
|                                     | leg (anatomy)   | limnology   |                            |                    | line spectra   |
|                                     | feet (anatomy)  |   | , chemical, meteorologi-   |                    | Balmer series D lines  |
|                                     | knee (anatomy)  | cal, and especially the   | biological and ecological  |                    | electronic spectra   |
| RT                                  | thigh appendages  | RT aquifers   | iters.                     |                    | Fraunhofer lines   |
| IXI                                 | hindlimb suspension   | arroyos   |                            |                    | H lines  |
|                                     | human body  | Earth hydros  | ohere                      |                    | H alpha line   |
| 00                                  | limbs   | fresh water   |                            |                    | H beta line  |
|                                     |   | geochemistry  |                            |                    | H gamma line   |
| lime                                |   | geophysics  |                            |                    | K lines  |
| USE                                 | calcium oxides  | ground water  |                            |                    | Lyman spectra  |
| liman                               |   | ∞ hydraulics  |                            |                    | Paschen series Rydberg series  |
| limen<br>DEF                        | Threshold; a psychophysical concept   | hydrography<br>hydrology  |                            |                    | telluric lines   |
|                                     | the lowest detectable intensity of any  | Lake Texoma   | (OK-TX)                    | RT                 | absorption spectra   |
|                                     | stimulus.   | lakes   | (3.1.17)                   |                    | atomic energy levels   |
| RT                                  | psychological tests   | marine biolog   | y                          |                    | Bohr theory  |
|                                     | thresholds (perception)   | marine chemi  | stry                       |                    | emission spectra   |
|                                     |   | ponds   |                            |                    | fine structure   |
| limestor                            | ne  | potable water   |                            |                    | flame spectroscopy   |
| DEF                                 |   |   |                            |                    | frequencies  |
|                                     | Sedimentary rock composed princi-   | rain  |                            |                    | humarfina atruatura  |
|                                     | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)  | streams   |                            |                    | hyperfine structure  |
| or the do                           | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)<br>buble carbonate of calcium and magne-   | streams<br>water  | ement                      |                    | infrared spectra   |
| or the do                           | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)  | streams<br>water<br>water manag   |                            | ~                  |  |
| or the do                           | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)<br>buble carbonate of calcium and magne-   | streams<br>water  | n                          | ~                  | infrared spectra light (visible radiation)   |
| or the do sium (th two.             | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)<br>buble carbonate of calcium and magne-<br>e mineral dolomite) or mixture of the  | streams<br>water<br>water manag<br>water pollutio                           | n                          | ×                  | infrared spectra<br>light (visible radiation)<br>lines   |
| or the do sium (th two.             | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)<br>suble carbonate of calcium and magne-<br>e mineral dolomite) or mixture of the<br>rocks                                     | streams<br>water<br>water manag<br>water pollutio<br>water resourc<br>wells | n                          | ×                  | infrared spectra light (visible radiation) lines molecular spectroscopy oscillator strengths pressure broadening               |
| or the do<br>sium (th<br>two.<br>GS | Sedimentary rock composed princi- calcium carbonate (the mineral calcite) buble carbonate of calcium and magne- e mineral dolomite) or mixture of the  rocks . sedimentary rocks limestone aggregates       | streams water water manag water pollutio water resourd wells                | n<br>:es                   | ∝                  | infrared spectra light (visible radiation) lines molecular spectroscopy oscillator strengths pressure broadening Raman spectra |
| or the do<br>sium (th<br>two.<br>GS | Sedimentary rock composed princi-<br>calcium carbonate (the mineral calcite)<br>puble carbonate of calcium and magne-<br>e mineral dolomite) or mixture of the<br>rocks<br>. sedimentary rocks<br>limestone | streams<br>water<br>water manag<br>water pollutio<br>water resourc<br>wells | n<br>:es                   | ×                  | infrared spectra light (visible radiation) lines molecular spectroscopy oscillator strengths pressure broadening               |

rotational spectra Seyfert galaxies solar spectra spectral bands spectral emission spectral energy distribution spectral line width spectral resolution spectrograms spectrum analysis Stark effect stellar spectra ultraviolet spectra visible spectrum

lineament

USE structural properties (geology)

linear AC alternators USE linear alternators

#### linear accelerators

DEF Devices for accelerating charged particles employing alternate electrodes and gaps arranged in a straight line, so proportioned that when their potentials are varied in the proper amplitudes and frequency, particles passing through them receive successive increments of energy. GS

particle accelerators

linear accelerators

RT ∞ accelerators

electron accelerators ion sources

multipactor discharges neutron sources

#### linear alternators

(added July 1991)

DEF An electromagnetic energy converter that converts reciprocating linear harmonic motion and driving force input to AC electrical power and energy output.

UF linear AC alternators

electric generators

. AC generators

. linear alternators

RT free-piston engines

 generators Stirling engines

#### linear amplifiers

GS amplifiers

. linear amplifiers

## linear arrays

DEF Antenna arrays whose elements are equally spaced along a straight line.

GS arrays

. antenna arrays

.. linear arrays

. . . endfire arrays

Yagi antennas

. . multispectral linear arrays

dipole antennas

focal plane devices

laser arrays

multiple beam interval scanners

phased arrays

pushbroom sensor modes

#### linear circuits

GS circuits

. linear circuits

amplifiers

distributed parameter systems electrical resistance superposition (mathematics)

transconductance volt-ampere characteristics

#### linear energy transfer (LET)

energy transfer

linear energy transfer (LET)

ionizing radiation

#### linear equations

GS algebra

. linear equations

. . Ffowcs Williams-Hawkings equation

linear evolution equations

. Riccati equation analysis (mathematics)

. real variables

... linear equations

... Ffowcs Williams-Hawkings

equation

. . . linear evolution equations

. . Riccati equation

determinants

differential equations

∞ equations

Floquet theorem

Gaussian elimination

linear operators matrices (mathematics)

operational calculus

polynomials

linear evolution equations
DEF Denotes a large class of differential or integral differential equations which are used to describe the evolution in time of some physical systems from an initial state. The equation is said to be linear if the unknown functions and their derivatives appear linearly.

algebra

. linear equations

linear evolution equations

analysis (mathematics) . real variables

. . linear equations

. linear evolution equations

difference equations

∞ equations

#### linear filters

linear filters GS

Kalman filters reduced order filters

adaptive filters

electric filters

electromagnetic wave filters

frequency response nonlinear filters

## linear integrated circuits

GS circuits

. integrated circuits

. linear integrated circuits

electronic packaging large scale integration

microminiaturization

molecular electronics

operational amplifiers

transistor circuits

## linear operators

RT

operators (mathematics)

linear operators

linear equations linear systems

linear transformations

## linear parameter-varying control

(added July 2002) RT ∞ control

control systems design feedback control

H-infinity control multivariable control

#### linear polarization

DEF Polarization of an electromagnetic wave in which the electric vector at a fixed point in space remains pointing in a fixed direction although varying in magnitude. Also known as plane polarization.

GS polarization (waves)

## linear polarization

light emission microwave emission optical polarization

polarization

polarized electromagnetic radiation polarized radiation

radio astronomy

## linear prediction

GS predictions

linear prediction

computation

differential pulse code modulation

mathematical models operations research

quality control

statistical analysis

#### linear programming

An optimization problem characterization in which a set of parameter values are to be determimed, subject to given linear constraints.

GS optimization

. mathematical programming

linear programming

research

. linear programming

RT ∞ applications of mathematics computer programming

constraints

dynamic programming

formalism

game theory

matrices (mathematics) nonlinear programming

numerical analysis

operations research ∞ programming simplex method

## linear quadratic Gaussian control

DEF A type of optimal-state feedback control whose design considers noise. It is primarily used to control aircraft and spacecraft systems. Used for LQG control.

LQG control

automatic control GS

. optimal control .. linear quadratic Gaussian

control

optimization . linear quadratic regulator

... linear quadratic Gaussian

control . optimal control

... linear quadratic Gaussian

control

 $RT \, \infty \, control$ 

control systems design control theory

feedback control

H-2 control

H-infinity control Kalman filters

# linear quadratic regulator

DEF A type of optimal-state feedback controller that does not consider noise. It is primarily used to control aircraft and spacecraft. Used for

linear regulator and LQR.
UF linear regulator LQR

#### optimization . linear quadratic regulator

. linear quadratic Gaussian control

RT ∞ control

control systems design control theory controllers

feedback control Kalman filters optimal control

#### linear receivers

GS receivers

linear receivers

frequency response Nyquist frequencies

linear regulator linear quadratic regulator USE

#### linear systems

distributed parameter systems linear operators nonlinear systems

|          | robustness (mathematics)                       |                       | segments                                   |          | linkages                          |
|----------|--|-----------------------|--|----------|-----------------------------------|
|          | state estimation                               | Umaa ad               |  |          | links (mathematics)               |
| ۰        | systems  | lines of<br>RT        | barium ion clouds                          | linko (n | nathematics)                      |
|          | tracking problem                               | KI                    | conjugate points                           | ,        | geometry                          |
|          | uncertain systems                              |                       | field aligned currents                     | 63       | . topology                        |
| linear t | ransformations                                 |                       | flux pinning                               |          | links (mathematics)               |
| GS       | algebra  |                       | flux transfer events                       | RT «     | ∞ links                           |
|          | . linear transformations                       | c                     | ∘ force                                    |          |                                   |
|          | functions (mathematics)                        | c                     | ∘ lines                                    | Liouvil  | le equations                      |
|          | linear transformations                         |                       | magnetic circuits                          | GS       | analysis (mathematics)            |
|          | transformations (mathematics)                  |                       | magnetic domains                           |          | . real variables                  |
|          | . linear transformations                       |                       | magnetic fields                            |          | differential equations            |
| RT       | Fourier analysis                               |                       | magnetic flux                              |          | partial differential equations    |
|          | Jordan form                                    |                       | magnetic mirrors                           | DT.      | Liouville equations               |
|          | linear operators                               |                       | magnetic properties magnetostatic fields   | KIS      | ∞ equations<br>plasma physics     |
|          | matrices (mathematics)                         |                       | nonuniform magnetic fields                 |          | plasmas (physics)                 |
|          | orthogonal functions Schwartz inequality       |                       | polar cusps                                |          | statistical mechanics             |
|          | vector spaces                                  |                       | polar odopo                                |          | otational moonamoo                |
|          | Total opacoc                                   | Ling-Te               | mco-Vought aircraft                        | Liouvil  | le theorem                        |
| linear v | ibration                                       |                       |  | GS       | analysis (mathematics)            |
| GS       | vibration                                      | GS                    | Ling-Temco-Vought aircraft                 |          | . complex variables               |
|          | . structural vibration                         |                       | . A-7 aircraft                             |          | Liouville theorem                 |
|          | linear vibration                               |                       | . F-8 aircraft                             |          | theorems                          |
| RT       | free vibration                                 | DT                    | . XC-142 aircraft                          |          | . Liouville theorem               |
|          | missile vibration                              | KI °                  | ∞ aircraft                                 | lip read | dina                              |
|          | random vibration                               | linguist              | rics                                       |          | communicating                     |
|          | vibration mode                                 | GS                    | linguistics                                | 00       | . lip reading                     |
| linearit |  |                       | . machine translation                      |          | reading                           |
| DEF      | The maximum deviation between an               |                       | . phonemics                                |          | . lip reading                     |
|          | nstrument reading and the reading pre-         |                       | . phonetics                                |          |                                   |
|          | by a straight line drawn between upper         |                       | . psycholinguistics                        |          | etabolism                         |
|          | er calibration points; usually expressed       |                       | . semantics                                | GS       | metabolism                        |
|          | rcentage of the full scale.                    | DT                    | syntax                                     |          | . protein metabolism              |
| GS       | linearity                                      | RT                    | languages                                  | DT       | . lipid metabolism                |
|          | . collinearity                                 |                       | natural language processing<br>orthography | RT       | 0                                 |
| RT       | accuracy                                       |                       | phonemes                                   | c        | ∞ nutrients<br>oils               |
|          | consistency                                    |                       | predicate logic                            |          | Olio                              |
|          | differential equations dynamic characteristics |                       | speech                                     | lipids   |                                   |
|          | errors   |                       | speech recognition                         | GS       | organic compounds                 |
|          | functions (mathematics)                        |                       |  |          | lipids                            |
|          | instrument errors                              |                       | processes                                  |          | calciferol                        |
|          | linearization                                  | RT                    | coating                                    |          | castor oil                        |
|          | nonlinearity                                   |                       | coatings                                   |          | fats                              |
|          | tolerances (mechanics)                         |                       | insulation<br>linings                      |          | lipoproteins                      |
|          | variability                                    |                       | sealing                                    |          | phylloquinone                     |
|          |  |                       | tunneling (excavation)                     |          | retinene<br>steroids              |
| lineariz |  |                       | g (  |          | cholesterol                       |
| RT       | Bernoulli theorem                              | linings               |  |          | corticosteroids                   |
| ۰        | ∘ equations<br>Galerkin method                 | UF                    | liners                                     |          | aldosterone                       |
|          | linearity                                      | GS                    | linings                                    |          | hydroxycorticosteroid             |
|          | simplification                                 |                       | . rocket linings                           |          | cortisone                         |
|          | ompinioation                                   |                       | bushings                                   |          | glucocorticoids                   |
| linen    |  | c                     | ocasing                                    |          | estrogens                         |
| GS       | fabrics  |                       | coatings<br>inserts                        |          | prostaglandins                    |
|          | . linen  |                       | insulation                                 | DT       | tocopherol                        |
|          | fibers   |                       | jackets                                    | RT       | amino acids                       |
|          | . linen  |                       | lining processes                           |          | esters<br>glycerols               |
|          | textiles                                       |                       | sheaths                                    |          | myelin                            |
|          | . linen  |                       | shielding                                  | c        | ∞ nutrients                       |
| RT       | organic materials                              | c                     | ∘ tubes                                    |          |                                   |
| linoro   |  |                       |  | lipoic a | icid                              |
| liners   | liningo  | linkage               |  | GS       | acids                             |
| USE      | linings  | RT                    | cams                                       |          | . carboxylic acids                |
| lines    |  |                       | connectors                                 |          | fatty acids                       |
| SN       | (USE OF A MORE SPECIFIC TERM IS                |                       | coupling couplings                         |          | lipoic acid                       |
| 0.1      | RECOMMENDEDCONSULT THE TERMS                   |                       | eccentrics                                 |          | organic compounds                 |
| RT       | LISTED BELOW)                                  |                       | fasteners                                  |          | . carboxylic acids                |
| IXI      | delay lines<br>line spectra                    |                       | fittings                                   |          | fatty acids<br><b>lipoic acid</b> |
|          | lines of force                                 |                       | joints (junctions)                         |          | lipoic aciu                       |
|          | pipelines                                      |                       | latches                                    | lipopro  | teins                             |
|          | terminator lines                               | c                     | ∘ links                                    | GS       | biopolymers                       |
|          | tetherlines                                    |                       | mechanical devices                         |          | . proteins                        |
|          | transmission lines                             |                       | unions (connectors)                        |          | lipoproteins                      |
|          | underground transmission lines                 |                       | yokes                                      |          | organic compounds                 |
|          |  | linleine              |  |          | lipids                            |
|          | eometry)                                       | <i>linking</i><br>USE | ioining                                    |          | lipoproteins                      |
| GS       | geometry                                       | USE                   | joining                                    |          | . proteins                        |
|          | . Euclidean geometry                           | ∞ links               |  |          | lipoproteins                      |
|          | lines (geometry)                               | SN                    | (USE OF A MORE SPECIFIC TERM IS            | line (c- | natomy)                           |
|          | chords (geometry) geodesic lines               |                       | RECOMMENDEDCONSULT THE TERMS               | GS       | natomy)<br>anatomy                |
| RT       | radii  | RT                    | LISTED BELOW)<br>chains                    | 00       | . digestive system                |
|          | reciprocal theorems                            | • • • •               | data links                                 |          | mouth                             |

 $\infty$ 

# Lipschitz condition

|                | lips (anatomy)                             |          | natural gas   |          | . chemical analysis                                |
|----------------|--|----------|---|----------|--|
|                | . face (anatomy)                           |          | liquefied natural gas                               |          | chromatography                                     |
|                | mouth                                      | RT       | methane   |          | liquid chromatography                              |
|                | lips (anatomy)                             |          |   | RT       | colorimetry  |
| RT             | head (anatomy)                             | liquid a |   |          | gel chromatography                                 |
| Lincohi        | tz condition                               | GS       | gases   |          | paper chromatography                               |
| GS             | analysis (mathematics)                     |          | . gas mixtures<br>air                               |          | sorption   |
| 00             | . real variables                           |          | liquid air  | liquid ( | cooled reactors                                    |
|                | Lipschitz condition                        |          | . liquefied gases                                   |          | nuclear reactors                                   |
|                | conditions                                 |          | liquid air  | 00       | . liquid cooled reactors                           |
|                | . Lipschitz condition                      |          | liquids   |          | liquid metal cooled reactors                       |
| RT             | differential equations                     |          | . liquefied gases                                   |          | advanced sodium cooled reactor                     |
| limunda        | ation.                                     |          | liquid air  |          | Experimental Breeder Reactor                       |
| liquefac<br>GS |  |          | mixtures  |          | Experimental Breeder Reactor 2                     |
| GS             | phase transformations . liquefaction       |          | . solutions   |          | Lithium Cooled Reactor                             |
|                | coal liquefaction                          |          | gas mixtures<br>air                                 |          | Experiment   |
| RT ∘           | o condensation                             |          | liquid air  |          | Los Alamos Molten Plutonium                        |
|                | o conversion                               |          | Inquia all  |          | Reactor  |
|                | jet condensers                             | liquid a | air cycle engines                                   |          | military compact reactors sodium graphite reactors |
|                | melting                                    | UF       | LACE (engine)                                       |          | sodium reactor experiment                          |
|                | noncondensable gases                       | GS       | engines   |          | organic cooled reactors                            |
|                | thixotropy                                 |          | . rocket engines                                    |          | experimental organic cooled                        |
| liguatio       | d gasas                                    |          | liquid propellant rocket engines                    |          | reactors   |
| GS             | d gases<br>gases                           | DT       | liquid air cycle engines                            |          | water cooled reactors                              |
| 00             | . liquefied gases                          | RT       | aerospace planes                                    |          | boiling water reactors                             |
|                | liquefied natural gas                      |          | hydrogen oxygen engines<br>sustainer rocket engines |          | experimental boiling water                         |
|                | liquid air                                 |          | turborocket engines                                 |          | reactors   |
|                | liquid ammonia                             |          | tarborookot originioo                               |          | Halden Boiling Water Reactor                       |
|                | liquid fluorine                            | liquid a | alloys  |          | Los Alamos Water Boiler<br>Reactor                 |
|                | liquid helium                              | GS       | alloys  |          | Pathfinder nuclear reactor                         |
|                | liquid helium 2                            |          | liquid alloys                                       |          | Spert reactors                                     |
|                | liquid hydrogen                            | RT       | metals  |          | heavy water reactors                               |
|                | liquid neon                                | Daniel d |   |          | heavy water components test                        |
|                | liquid nitrogen liquid oxygen              | GS       | ammonia   |          | reactors   |
|                | liquids                                    | GS       | gases<br>. ammonia                                  |          | plutonium recycle test reactor                     |
|                | . liquefied gases                          |          | liquid ammonia                                      |          | zero power reactor 2                               |
|                | liquefied natural gas                      |          | . liquefied gases                                   |          | light water reactors                               |
|                | liquid air                                 |          | liquid ammonia                                      |          | NRX reactors Plum Brook Reactor                    |
|                | liquid ammonia                             |          | inorganic compounds                                 |          | pressurized water reactors                         |
|                | liquid fluorine                            |          | . ammonia   |          | spectral shift control reactor                     |
|                | liquid helium                              |          | liquid ammonia                                      |          | swimming pool reactors                             |
|                | liquid helium 2                            |          | liquids   |          | zero power reactors                                |
|                | liquid hydrogen                            |          | liquefied gases                                     |          | zero power reactor 2                               |
|                | liquid neon                                |          | liquid ammonia                                      |          | zero power reactor 3                               |
|                | liquid nitrogen liquid oxygen              |          | nitrogen compounds<br>. ammonia                     |          | zero power reactor 6                               |
| RT             | condensates                                |          | liquid ammonia                                      |          | zero power reactor 9                               |
|                | condensers (liquefiers)                    | RT       | fuels   | RT       | sodium cooling                                     |
|                | cryogenic rocket propellants               |          | liquid fuels  |          |  |
|                | cryogenics                                 |          |   |          | cooling  |
|                | gas mixtures                               | liquid a | atomization   | SN<br>UF | (COOLING WITH LIQUIDS) water cooling               |
|                | liquid rocket propellants                  | GS       | atomizing   | GS       |  |
|                | solid cryogen cooling                      |          | liquid atomization                                  | 00       | . liquid cooling                                   |
| limunatio      | d material man                             | RT       | gas atomization                                     |          | film cooling                                       |
| UF             | d natural gas<br>LNG                       |          | spraying  | RT       | air cooling  |
| GS             | fuels                                      | liquid I | pearings  |          | capillary pumped loops                             |
| 00             | . chemical fuels                           | GS       |   |          | coolants   |
|                | hydrocarbon fuels                          | 00       | . liquid bearings                                   |          | cooling systems                                    |
|                | fossil fuels                               | RT       | lubrication   |          | sodium cooling                                     |
|                | natural gas                                |          |   |          | space cooling (buildings)                          |
|                | liquefied natural gas                      | liquid l | oreathing   |          | sweat cooling thermal pollution                    |
|                | . gaseous fuels                            | GS       | respiration   |          | water immersion                                    |
|                | natural gas                                |          | liquid breathing                                    |          | water immercial                                    |
|                | liquefied natural gas                      | RT       | acclimatization                                     | liquid ( | crystals   |
|                | gases                                      |          | pressure breathing                                  |          | crystals   |
|                | . flammable gases                          |          | resuscitation                                       |          | . liquid crystals                                  |
|                | gaseous fuels<br>natural gas               | liquid I | oridges   | RT       | anisotropic fluids                                 |
|                | liquefied natural gas                      |          | led September 1993)                                 |          | cholesterol  |
|                | . liquefied natural gas                    |          | Axisymmetric liquid columns held by                 |          | ferroelectric materials                            |
|                | liquefied gases                            |          | y forces and forming an interface be-               |          | light valves                                       |
|                | liquefied natural gas                      |          | wo solids or between two gaps in a solid.           |          |  |
|                | geophysical fluids                         |          | in space processing.                                | liquid a |  |
|                | . natural gas                              | RT «     | ∞ bridges   | USE      | drops (liquids)                                    |
|                | liquefied natural gas                      |          | capillary flow                                      |          | Culadahana   |
|                | liquids                                    |          | containerless melts                                 |          | filled shells                                      |
|                | . liquefied gases                          |          | interfacial tension<br>liquid-solid interfaces      | GS       | shells (structural forms) . fluid filled shells    |
|                | liquefied natural gas<br>organic compounds |          | low gravity manufacturing                           |          | liquid filled shells                               |
|                | . hydrocarbons                             |          | Marangoni convection                                | RT       | hydrodynamic ram effect                            |
|                | natural gas                                |          | space manufacturing                                 | 131      | propellant tanks                                   |
|                | liquefied natural gas                      |          | space processing                                    |          | reinforced shells                                  |
|                | resources                                  |          |   |          | shell stability                                    |
|                | . Earth resources                          |          | chromatography                                      |          | ∞ storage  |
|                | fossil fuels                               | GS       | chemical tests                                      |          | tanks (containers)                                 |

| 0              | ∞ vessels                               | liquid helium 2                               |                | liquid lithium                                    |
|----------------|---|---|----------------|---|
|                |   | RT cryostats                                  |                | . liquid metals                                   |
| liquid f<br>GS | fluid flow                              | superfluidity                                 |                | liquid lithium                                    |
| GS             | . liquid flow                           | two fluid models                              | liquid m       | nercury   |
|                | open channel flow                       | liquid helium 2                               |                | mercury (metal)                                   |
|                | water flow                              | GS chemical elements                          |                | ,           |
| RT             | critical flow                           | . rare gases                                  |                | netal cooled reactors                             |
|                | gas flow                                | helium  |                | LMCR (reactors)                                   |
|                | head (fluid mechanics) head flow        | liquid helium<br>liquid helium 2              | GS             | nuclear reactors . liquid cooled reactors         |
|                | hydrodynamic coefficients               | gases   |                | liquid metal cooled reactors                      |
|                | laminar flow                            | . liquefied gases                             |                | advanced sodium cooled reactor                    |
|                | mass flow                               | liquid helium                                 |                | Experimental Breeder Reactor 1                    |
|                | multiphase flow                         | liquid helium 2                               |                | Experimental Breeder Reactor 2                    |
|                | nonNewtonian flow                       | . rare gases                                  |                | Lithium Cooled Reactor                            |
|                | orifice flow pipe flow                  | helium  |                | Experiment Los Alamos Molten Plutonium            |
|                | pressure gradients                      | liquid helium<br>liquid helium 2              |                | Reactor   |
|                | pressure heads                          | liquids                                       |                | military compact reactors                         |
|                | rheology                                | . cryogenic fluids                            |                | sodium graphite reactors                          |
|                | single-phase flow                       | liquid helium                                 |                | sodium reactor experiment                         |
|                | Soret coefficient                       | liquid helium 2                               | RT             | Enrico Fermi atomic power plant                   |
|                | steady flow                             | . liquefied gases                             |                | sodium  |
|                | subcritical flow<br>supercritical flow  | liquid helium<br>liquid helium 2              | liquid r       | netal fast breeder reactors                       |
|                | turbulent flow                          | RT cryostats                                  | UF             | LMFBR   |
|                | two phase flow                          | superfluidity                                 | GS             | nuclear reactors                                  |
|                | uniform flow                            | • •   |                | . breeder reactors                                |
|                | unsteady flow                           | liquid hydrogen                               |                | liquid metal fast breeder                         |
|                | l                                       | GS chemical elements                          |                | reactors  |
| liquid f<br>GS | chemical elements                       | . hydrogen                                    |                | . fast nuclear reactors liquid metal fast breeder |
| GS             | . halogens                              | <b>liquid hydrogen</b><br>gases               |                | reactors  |
|                | fluorine                                | . hydrogen                                    | RT             | nuclear power reactors                            |
|                | liquid fluorine                         | liquid hydrogen                               |                | ,           |
|                | gases                                   | . liquefied gases                             | liquid r       |   |
|                | . liquefied gases                       | liquid hydrogen                               | GS             | liquids   |
|                | liquid fluorine                         | liquids                                       |                | . liquid metals                                   |
|                | liquids                                 | . cryogenic fluids                            |                | liquid lithium                                    |
|                | . liquefied gases liquid fluorine       | liquid hydrogen                               |                | liquid potassium liquid sodium                    |
|                | IIquia IIuorine                         | . liquefied gases<br><b>liquid hydrogen</b>   |                | mercury (metal)                                   |
| liquid f       | uels                                    | RT cryogenic rocket propellants               |                | mercury isotopes                                  |
| GS             | fuels                                   | fuels   |                | mercury vapor                                     |
|                | . chemical fuels                        | hydrogen fuels                                |                | metals  |
|                | liquid fuels                            | hydrogen-based energy                         |                | . liquid metals                                   |
|                | antimisting fuels                       | liquid fuels                                  |                | liquid lithium                                    |
|                | diesel fuels<br>gasoline                | slush hydrogen                                |                | liquid potassium                                  |
|                | hydrogen fuels                          | topping cycle engines                         |                | liquid sodium mercury (metal)                     |
|                | jet engine fuels                        | liquid injection                              |                | mercury (metal)                                   |
|                | JP-4 jet fuel                           | GS injection                                  |                | mercury vapor                                     |
|                | JP-5 jet fuel                           | . fluid injection                             | RT             | casting   |
|                | JP-6 jet fuel                           | liquid injection                              |                | levitation melting                                |
|                | JP-7 jet fuel                           | deep well injection (wastes)                  |                | lubricants  |
|                | JP-8 jet fuel                           | water injection                               |                | melting   |
|                | fuel oils                               | RT film cooling                               |                | metal vapors                                      |
| RT             | kerosene<br>aircraft fuels              | fuel injection                                |                | squeeze casting                                   |
| 111            | automobile fuels                        | fuel sprays<br>mixing                         | liquid r       | neon  |
|                | fuel production                         | propellant sprays                             | GS             |   |
|                | gaseous fuels                           | thrust vector control                         |                | . rare gases                                      |
|                | liquid ammonia                          |   |                | neon  |
|                | liquid hydrogen                         | liquid lasers                                 |                | liquid neon                                       |
|                | liquid rocket propellants               | GS stimulated emission devices                |                | gases   |
|                | liquids                                 | . lasers                                      |                | . liquefied gases                                 |
|                | synthetic fuels                         | <b>liquid lasers</b><br>RT carbon lasers      |                | liquid neon<br>. rare gases                       |
| liquid h       | nelium                                  | chemical lasers                               |                | neon  |
| UF             | helium 2                                | dye lasers                                    |                | liquid neon                                       |
| GS             | chemical elements                       | infrared lasers                               |                | liquids   |
|                | . rare gases                            | organic lasers                                |                | . liquefied gases                                 |
|                | helium                                  |   |                | liquid neon                                       |
|                | liquid helium                           | liquid levels                                 | Daniel a       |   |
|                | liquid helium 2                         | GS level (horizontal)                         | ilquia r<br>GS | nitrogen<br>chemical elements                     |
|                | gases . liquefied gases                 | . <b>liquid levels</b><br>RT fluid boundaries | GS             | . nitrogen  |
|                | liquid helium                           | 1(1 liulu boulluaries                         |                | liquid nitrogen                                   |
|                | liquid helium 2                         | liquid lithium                                |                | gases   |
|                | . rare gases                            | GS chemical elements                          |                | . liquefied gases                                 |
|                | helium                                  | . alkali metals                               |                | liquid nitrogen                                   |
|                | liquid helium                           | lithium                                       |                | . nitrogen  |
|                | liquid helium 2                         | liquid lithium                                |                | liquid nitrogen                                   |
|                | liquids                                 | liquids                                       |                | liquids   |
|                | . cryogenic fluids<br>liquid helium     | . liquid metals                               |                | . cryogenic fluids                                |
|                | liquid helium<br>liquid helium 2        | <b>liquid lithium</b><br>metals               |                | . liquid nitrogen . liquefied gases               |
|                | . liquid rielium 2<br>. liquefied gases | . alkali metals                               |                | liquid nitrogen                                   |
|                | liquid helium                           | lithium                                       | RT             | high temperature superconductors                  |
|                |   |   |                | •   |

| solid cryogens   | liquid potassium                                 | Thor launch vehicles  |
|--|--|---|
| liquid oxidizers   | metals<br>. alkali metals                        | Thorad launch vehicles Titan ICBM   |
| GS liquids   | potassium  | Titan launch vehicles   |
| liquid oxidizers   | liquid potassium                                 | V-1 missile   |
| oxidizers  | . liquid metals                                  | V-2 missile   |
| . liquid oxidizers                                       | liquid potassium                                 | vanguard 2 launch vehicle   |
| RT rocket oxidizers                                      |  | Vega launch vehicle   |
| liquid oxygen  | liquid propellant rocket engines                 | Vernier engines<br>Veronique rocket vehicles  |
| UF LOX (oxygen)  | DEF Rocket engines using a propellant or         | Viking rocket vehicle   |
| GS chemical elements                                     | propellants in liquid form.                      | X-33 reusable launch vehicle  |
| . oxygen   | GS engines                                       | X-34 reusable launch vehicle  |
| liquid oxygen  | rocket engines                                   |   |
| gases  | liquid propellant rocket engines                 | liquid rocket propellants   |
| . liquefied gases  | AJ-10 engine                                     | DEF Specifically, rocket propellants in liquid  |
| liquid oxygen  | F-1 rocket engine<br>H-1 engine                  | form. Examples of liquid propellants include  |
| . oxygen   | hydrazine engines                                | fuels such as alcohol, gasoline, aniline, liquic ammonia, and liquid hydrogen; oxidants such as |
| <b>liquid oxygen</b><br>liquids                          | hydrogen oxygen engines                          | liquid oxygen, hydrogen peroxide (also appli  |
| . cryogenic fluids                                       | J-2 engine                                       | cable as a monopropellant), and nitric acid   |
| liquid oxygen  | M-1 engine                                       | additives such as water; and monopropellants  |
| . liquefied gases  | RL-10-A-1 engine                                 | such as nitromethane. Used for bipropellants  |
| liquid oxygen  | RL-10-A-3 engine                                 | and tripropellants.   |
| oxidizers  | liquid air cycle engines                         | UF bipropellants  |
| . liquid oxygen  | LR-62-RM-2 engine<br>LR-87-AJ-5 engine           | tripropellants  |
| RT cryogenic rocket propellants                          | LR-91-AJ-5 engine                                | GS propellants  |
| FLOX   | MA-2 engine                                      | . rocket propellants  |
| oxygen-hydrocarbon rocket engines<br>rocket oxidizers    | MA-3 engine                                      | . liquid rocket propellants cryogenic rocket propellants  |
| TOOKET OXIGIZETS   | MA-5 engine                                      | gelled rocket propellants   |
| liquid oxygen hydrocarbon rocket engines                 | oxygen-hydrocarbon rocket                        | hypergolic rocket propellants   |
| USE oxygen-hydrocarbon rocket                            | engines  | monopropellants   |
| engines  | RL-10 engines                                    | RP-1 rocket propellants   |
| Pro Challana and Sec                                     | RL-10-A-1 engine                                 | slurry propellants  |
| liquid phase epitaxy                                     | RL-10-A-3 engine pulse detonation engines        | slush hydrogen  |
| DEF A liquid phase transformation during crystal growth. | Space Shuttle Main Engine                        | aerozine  |
| GS growth  | X-405 engine                                     | RT aircraft fuels   |
| . crystal growth   | XLR-99 engine                                    | chemical compatibility chlorine fluorides   |
| epitaxy  | YLR-91-AJ-1 engine                               | fuel tank pressurization  |
| liquid phase epitaxy                                     | RT Ablestar launch vehicle                       | gaseous rocket propellants  |
| RT crystal structure                                     | Atlas SLV-3 launch vehicle                       | high energy propellants   |
| liquid phases  | Black Knight rocket vehicle                      | hybrid propellants  |
| vapor phase epitaxy                                      | Blue Steel missile<br>Blue Streak launch vehicle | hydrazines  |
| liquid phase sintering                                   | Blue Streak missile                              | hydrogen fuels  |
| (added August 1991)                                      | BOMARC A missile                                 | liquefied gases   |
| DEF Sintering of a compact, or loose pow-                | BOMARC B missile                                 | liquid fuels<br>liquids   |
| der aggregate under conditions where a liquid            | booster rocket engines                           | monomethylhydrazines  |
| phase is present during part of the sintering            | Centaur launch vehicle                           | nitrogen tetroxide  |
| cycle.   | Corporal missile                                 | propellant sprays   |
| GS sintering   | Corvus missile                                   | solid rocket propellants  |
| . liquid phase sintering                                 | Delta 4 Heavy launch vehicle                     | storable propellants  |
| RT consolidation metal powder                            | Delta Clipper<br>Diamant launch vehicle          | liquid rotation   |
| powder metallurgy  | Dornier paraglider rocket vehicle                | USE rotating liquids  |
| portion motality   | ducted rocket engines                            | OOL Totaling inquites   |
| liquid phases  | hybrid propellant rocket engines                 | liquid sloshing   |
| RT alloys  |  | DEF The back and forth movement of a  |
| critical pressure  | Hyla-Star rocket vehicle                         | liquid fuel in its tank, creating problems of sta   |
| electroepitaxy   | internal combustion engines                      | bility and control in the vehicle. Used for slosh   |
| eutectics<br>liquid phase epitaxy                        | Juno 1 launch vehicle<br>Juno 2 launch vehicle   | ing.<br>UF <i>sloshing</i>  |
| liquids  | Juno launch vehicles                             | RT aerodynamic stability  |
| liquidus   | Jupiter C rocket vehicle                         | aircraft stability  |
| melting points   | Jupiter missile                                  | baffles   |
| phase diagrams   | Lance missile                                    | controllability   |
| phase separation (materials)                             | Meteor 1 rocket vehicle                          | fuel control  |
| ∞ phases   | Navaho missile                                   | fuel tanks  |
| solid phases   | Nike-Ajax missile                                | interface stability   |
| solid solutions  | Nomad launch vehicle                             | propellant tanks  |
| solidus<br>solubility                                    | Nova launch vehicles<br>propellant tanks         | propellant transfer rotating fluids   |
| supercritical pressures                                  | restartable rocket engines                       | spacecraft stability  |
| syntectic alloys   | retrorocket engines                              | storage stability   |
| transition temperature                                   | Saturn S-1 stage                                 | tank geometry   |
| vapor phase epitaxy                                      | Saturn S-1B stage                                | ullage  |
| vapor phases   | Saturn S-1C stage                                |   |
| Kenniel when a sliel was a s                             | Saturn S-2 stage                                 | liquid sodium   |
| liquid plus solid zones                                  | Saturn S-4 stage                                 | GS chemical elements  |
| USE mushy zones  | Saturn stages                                    | . alkali metals<br>sodium   |
| liquid potassium   | Saturn stages solid propellant rocket engines    | liquid sodium   |
| GS chemical elements                                     | Sparrow 3 missile                                | liquids   |
| . alkali metals  | sustainer rocket engines                         | . liquid metals   |
| potassium  | Talos missile                                    | liquid sodium   |
| liquid potassium   | Thor Able rocket vehicle                         | metals  |
| liquids  | Thor Agena launch vehicle                        | . alkali metals   |
| . liquid metals  | Thor Delta launch vehicle                        | sodium  |

| liquid sodium<br>. liquid metals<br>liquid sodium | liquid nitrogen<br>liquid oxygen<br>. liquid metals                                       | . spaceborne telescopes LIRTS (telescope) RT European Space Agency |
|---|---|--|
| liquid surfaces                                   | . liquid lithium<br>. liquid potassium  | payloads<br>space shuttles   |
| GS liquid surfaces                                | liquid sodium   | Spacelab   |
| . menisci<br>RT fluid boundaries                  | mercury (metal)   | LICA (abanyatany)  |
| RT fluid boundaries free boundaries               | mercury isotopes<br>mercury vapor   | LISA (observatory) (added December 2000)                           |
| interfacial tension                               | . liquid oxidizers  | UF Laser Interferometer Space Antenna                              |
| jet boundaries                                    | . organic liquids   | GS antennas  |
| solid surfaces                                    | . potable liquids   | . gravitational wave antennas                                      |
| surface waves                                     | beverages   | LISA (observatory)   |
| ∞ surfaces  | wines   | artificial satellites<br>. scientific satellites                   |
| liquid wastes                                     | . potable water . rotating liquids  | . astronomical satellites  |
| DEF The liquid counterpart of solid wastes        | RT ∞ fluids   | LISA (observatory)   |
| from industrial, chemical, metabolic, and/or min- | globules  | observatories  |
| eral sources.                                     | glycerols   | . astronomical observatories                                       |
| GS wastes . liquid wastes                         | liquid fuels  | astronomical satellites  |
| urine   | liquid phases<br>liquid rocket propellants  | LISA (observatory)  RT astronomical interferometry                 |
| waste water                                       | nonpoint sources  | gravitational waves  |
| RT drainage                                       | phase diagrams  | laser interferometry   |
| effluents   | vapor phases  | spaceborne astronomy   |
| human wastes<br>industrial wastes                 | water   | LISP (programming language)  |
| metabolic wastes                                  | liquid-solid interfaces   | LISP (programming language) GS languages                           |
| ponds   | GS boundaries   | . programming languages  |
| sewage  | . fluid boundaries  | . LISP (programming language)                                      |
| sludge  | liquid-solid interfaces   | RT computer programming  |
| solid wastes                                      | interfaces  | recursive functions  |
| liquid-gas mixtures                               | . fluid boundaries  | Licopious figures  |
| GS mixtures                                       | <b>liquid-solid interfaces</b><br>RT boundary layers                                      | Lissajous figures  DEF Figures where the path of a particle        |
| . dispersions                                     | fluid films   | moving in a plane when the components of its                       |
| liquid-gas mixtures                               | fluid-solid interactions  | position along two perpendicular axes each un-                     |
| aerosols  | ∞ fusion  | dergo simple harmonic motions and the ratio of                     |
| tog   | heat transfer   | their frequencies is a rational number.                            |
| RT air water interactions binary mixtures         | interface stability   | RT eccentric orbits equations of motion                            |
| gas mixtures                                      | liquid bridges<br>melting   | libration  |
| menisci   | menisci   | lunar orbits   |
| solubility  | metal surfaces  | satellite orbits   |
| vapor phases                                      | phase change materials  | lists  |
| vapor pressure                                    | solid phases  | GS lists   |
| liquid-liquid interfaces                          | solid-solid interfaces squeeze films  | . hardware utilization lists                                       |
| GS boundaries                                     | 3446626 111113  | RT ∞ catalogs  |
| . fluid boundaries                                | liquidus  | display devices  |
| liquid-liquid interfaces                          | RT crystallization  | enumeration  |
| interfaces<br>. fluid boundaries                  | liquid phases   | indexes (documentation) printouts                                  |
| liquid-liquid interfaces                          | melting points<br>phase diagrams  | printouts  |
| RT boundary layers                                | solid phases  | literature   |
| free boundaries                                   | solid solutions   | GS literature  |
| heat transfer                                     | solidus   | . biography  |
| interface stability<br>interfacial energy         | liquid vanor equilibrium  | . documentation<br>RT bibliographies                               |
| interfacial tension                               | liquid-vapor equilibrium  UF vapor liquid equilibrium                                     | documents  |
| pressure gradients                                | RT ∞ equilibrium  | indexes (documentation)  |
| solubility  | thermodynamic equilibrium   | knowledge  |
|   | vapors  | libraries  |
| liquids  DEF Substances in a state in which the   | liquid vapor interfesse   | papers   |
| individual particles move freely with relation to | liquid-vapor interfaces GS boundaries   | philosophy   |
| each other and take the shape of the container,   | . fluid boundaries  | lithergol rocket engines   |
| but do not expand to fill the container.          | liquid-vapor interfaces   | GS engines   |
| GS liquids  | interfaces  | . rocket engines   |
| . cryogenic fluids                                | . fluid boundaries  | hybrid propellant rocket engines                                   |
| Fermi liquids<br>FLOX                             | <b>liquid-vapor interfaces</b><br>RT air water interactions                               | lithergol rocket engines<br>RT ∞ hybrid rocket engines             |
| liquid helium                                     | evaporation   | ret so trybita rocket engines                                      |
| liquid helium 2                                   | free boundaries   | lithergolic propellants  |
| liquid hydrogen                                   | heat transfer   | USE hybrid propellants   |
| liquid nitrogen                                   | interface stability   | Pd Co. C.  |
| liquid oxygen<br>. ferrofluids                    | menisci   | lithiasis<br>GS diseases   |
| . hydraulic fluids                                | pressure gradients<br>solubility  | . lithiasis  |
| Skydrol (trademark)                               | vapor phases  | RT calculi   |
| . juices  | vapor priasos<br>vapor pressure   | dental calculi   |
| . liquefied gases                                 | • •   |  |
| liquefied natural gas                             | LIRTS (telescope)   | lithium  |
| liquid air<br>liquid ammonia                      | DEF A proposed large infrared telescope for<br>Spacelab superseded by the German infrared | GS chemical elements . alkali metals                               |
| liquid ammonia<br>liquid fluorine                 | laboratory. Used for Large Infrared Telescope on  | lithium  |
| liquid helium                                     | Spacelab.   | liquid lithium   |
| liquid helium 2                                   | UF Large Infrared Telescope on  | lithium isotopes   |
| liquid hydrogen                                   | Spacelab  | metals   |
| liquid neon                                       | GS telescopes   | . alkali metals  |

. . lithium

. . . liquid lithium

... lithium isotopes

lithium 4

USE lithium isotopes

lithium 6

USE lithium isotopes

#### lithium alloys

GS alloys

lithium alloys

. aluminum-lithium alloys

RT aircraft construction materials aluminum alloys copper alloys magnesium alloys

#### lithium aluminum hydrides

GS aluminum compounds

zirconium alloys

. lithium aluminum hydrides

hydrogen compounds

. hydrides

. . metal hydrides

. . . lithium hydrides

... lithium aluminum hydrides

lithium compounds

. lithium hydrides

. lithium aluminum hydrides

powdered aluminum

#### lithium batteries

(added December 1999)

electrochemical cells

. electric batteries

... lithium batteries

. . lithium sulfur batteries

storage batteries

#### lithium borates

GS boron compounds

. borates

. lithium borates lithium compounds

. lithium borates

## lithium chlorides

GS halogen compounds

. chlorine compounds

. . chlorides

. . lithium chlorides

. halides

. . chlorides

. . . lithium chlorides

. . metal halides

. lithium chlorides

lithium compounds

. lithium chlorides

#### lithium compounds

lithium compounds

. lithium borates

lithium chlorides

. lithium fluorides

. lithium hydrides

. lithium aluminum hydrides

. lithium hydroxides

. lithium iodates

. lithium niobates

. lithium oxides

. lithium perchlorates

. lithium sulfates

. organic lithium compounds

spodumene

RT ∞ alkali metal compounds

∞ chemical compounds

∞ metal compounds

metal fuels

# Lithium Cooled Reactor Experiment

LCRE Reactor

GS nuclear reactors

. liquid cooled reactors

. . liquid metal cooled reactors

#### ... Lithium Cooled Reactor Experiment

## lithium fluorides

GS halogen compounds

. fluorine compounds

. . fluorides

. . . metal fluorides

. lithium fluorides

. halides

. . fluorides

. . . metal fluorides

. . . . lithium fluorides

. . metal halides

. . . metal fluorides

. lithium fluorides lithium compounds

. lithium fluorides

## lithium hydrides

GS hydrogen compounds

. hydrides

. . metal hydrides

... lithium hydrides

. . lithium aluminum hydrides

lithium compounds

. lithium hydrides

. . lithium aluminum hydrides

#### lithium hydroxides

bases (chemical) GS

alkalies

. lithium hydroxides

hydroxides

. Íithium hydroxides

lithium compounds lithium hydroxides

#### lithium iodates

Salts of iodic acid containing the 10 to DEF

the third power radical.

halogen compounds

. iodine compounds

. . iodates . . lithium iodates

lithium compounds

lithium iodates  $RT \, \infty \, metal \, \, compounds$ 

lithium isotopes UF lithium 4

lithium 6

GS chemical elements

. alkali metals

. . lithium

... lithium isotopes

. nuclides

. . isotopes

. lithium isotopes

metals

. alkali metals

. . lithium

... lithium isotopes

## lithium niobates

lithium compounds

. lithium niobates

niobium compounds . niobates

... lithium niobates

## lithium oxides

GS chalcogenides

. oxides

. . metal oxides . lithium oxides

lithium compounds . lithium oxides

## lithium perchlorates

halogen compounds . chlorine compounds

. . perchlorates

. . lithium perchlorates

lithium compounds . lithium perchlorates

#### lithium sulfates

lithium compounds

lithium sulfates

sulfur compounds

. sulfates

. . lithium sulfates

## lithium sulfur batteries

DEF Primary cells for producing electrical energy using lithium metal for one electrode and sulfur for the other.

GS electrochemical cells

. electric batteries

. . lithium batteries

. . . lithium sulfur batteries

RT ∞ cells

∞ electric cells

∞ energy sources

∞ power supplies

## lithography

DEF The process of printing from a plane surface on which the image to be printed is ink receptive and water repellant and the non-image area is ink repellant and water receptive.

stereolithography

ultraviolet lithography

GS printing

lithography . photolithography

nanofabrication photomechanical effect reproduction (copying)

lithology
DEF Description of the physical character of rocks as determined by eye or with a low-power magnifier and based on color, structure, mineralogic components, and grain size.

geology petrology

lithology regolith RT rocks

lithosphere

The solid portion of the Earth, as compared to atmosphere and hydrosphere.

geosphere

GS lithosphere

. Earth core . Earth crust

. Earth mantle . Earth surface

RT asthenosphere Earth planetary structure

planetary mantles plates (tectonics) subduction (geology)

RT

Lithuania

GS nations Lithuania

Europe

Little Joe 2 launch vehicle

GS launch vehicles
. Little Joe 2 launch vehicle

rocket vehicles . multistage rocket vehicles

Little Joe 2 launch vehicle

Algol engine Mercury project

sergeant missiles solid propellant rocket engines

TX-354 engine

XM-33 engine

Little John rocket vehicle GS rocket vehicles

. single stage rocket vehicles . . Little John rocket vehicle

. surface to surface rockets . Little John rocket vehicle

Hercules engine solid propellant rocket engines

USE coastal currents

littoral currents

## littoral drift

Material (such as shingle, gravel, sand, and shell fragments) that is moved along

|  | e by coastal currents.  | SN   | (LIMITED TO STRUCTURAL MECHANICS)   | RT  | impact loads  |
|--|---|--|---|---|---|
| RT   | bars (landforms)  | DEF<br>loads.  | The capacity of a structure to bear   |   | load tests  |
|  | beaches<br>breakwaters  | GS   | mechanical properties   |   | loads (forces)<br>strain rate   |
|  | coasts  |  | . yield strength  |   | variable amplitude loading  |
|  | ocean currents  |  | load carrying capacity  |   | velocity  |
|  | sands   | RT   | compressive strength  |   | •   |
|  | sediments   |  | creep strength  | loading   |   |
| littoral t   | ransport  |  | critical loading  | USE   | elastic waves   |
|  | breakwaters   |  | fracture strength loads (forces)  |   | loads (forces)  |
| •  | ocean currents  | c  | ∞ strength  | loade (f  | (orone)   |
|  | sands   |  | structural failure  | loads (f<br>UF  | load factors  |
|  | water waves   |  | structural stability  | Oi  | loading forces  |
| ∞  | waves   |  | structural strain   |   | loading waves   |
| liver  |   |  | tensile strength  | GS  | loads (forces)  |
| GS   | anatomy   | load di  | stribution (forces)   |   | . axial loads   |
|  | . liver   | GS   | distribution (property)   |   | axial compression loads   |
| RT   | gastrointestinal system   |  | . load distribution (forces)  |   | . compression loads   |
|  | glands (anatomy)  | RT «   | ∞ distribution  |   | axial compression loads impact loads  |
|  | hepatitis   |  | transverse loads  |   | . contact loads   |
|  | tyrosine  | , ,,   |   |   | impact loads  |
| Livermo  | re Pool Type Reactor  | load fad<br>USE  | loads (forces)  |   | rolling contact loads   |
| UF   | LPTR Reactor  | USE  | loads (loices)  |   | . critical loading  |
| GS   | nuclear reactors  | load te  | sting machines  |   | . dynamic loads   |
|  | nuclear research and test reactors  |  | ∞ machinery   |   | aerodynamic loads   |
|  | . Livermore Pool Type Reactor   |  | ∞ test equipment  |   | blast loads   |
| liverwort  | \$  |  |   |   | gust loads<br>cyclic loads  |
|  | Bryophytes  | load te  |   |   | rolling contact loads   |
|  |   | RT   | compression tests   |   | thrust loads  |
| livestoc   |   |  | creep tests   |   | transient loads   |
| GS   | animals   |  | destructive tests fatigue tests   |   | gust loads  |
| RT   | . livestock calves  |  | impact tests  |   | impact loads  |
| KI   | cattle  |  | loading rate  |   | landing loads   |
|  | deer  |  | nondestructive tests  |   | shock loads   |
|  | goats   |  | shock tests   |   | blast loads   |
|  | horses  |  | specimen geometry   |   | variable amplitude loading vibratory loads  |
|  | rangelands  |  | spin tests  |   | wing loading  |
|  | sheep   |  | static tests  |   | . edge loading  |
|  |   |  | tensile tests   |   |   |
|  | swine   |  |   |   | . random loads  |
|  | swine<br>turkeys  | c  | ∞ tests   |   | . random loads gust loads   |
| lixiscon   | turkeys   | c  |   |   |   |
| lixiscop<br>DEF  | turkeys<br>es   |  | ∞ tests<br>variable amplitude loading   |   | gust loads<br>. static loads<br>. transverse loads  |
| DEF  | turkeys   | ∞ <b>loadin</b> ç<br>SN                                  | ∞ tests variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS  | RT  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)  |
| DEF low inter  | turkeys<br>es<br>Portable light weight battery operated   | ∞ loading  | <ul> <li>         ≈ tests         variable amplitude loading         g         (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS</li></ul>   | ~   | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>e equilibrium   |
| DEF<br>low inter<br>cal, indu<br>for Low   | turkeys  Solution  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  | ∞ <b>loadin</b> g<br>SN                                  | variable amplitude loading  g (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | ~   | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium   |
| DEF low inter cal, indu for Low UF   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes  | ∞ loading  | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  dummy loads  | ~   | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>e equilibrium<br>of orce<br>force distribution  |
| DEF low inter cal, indu for Low UF   | turkeys  Ses  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment  | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  g (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | ~   | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>be equilibrium<br>of orce<br>force distribution<br>Hugoniot equation of state   |
| DEF low inter cal, indu for Low UF   | turkeys  es  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment  . x ray apparatus   | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input  | ∝<br>∝  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>e equilibrium<br>of orce<br>force distribution  |
| DEF low inter cal, indu for Low UF   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment  x ray apparatus  . lixiscopes   | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations  | ∝<br>∝  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium<br>force distribution<br>Hugoniot equation of state<br>load carrying capacity<br>loading  |
| DEF low inter cal, indu for Low UF   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . lixiscopes portable equipment  | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces)   | ∝<br>∝  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium<br>force distribution<br>Hugoniot equation of state<br>loading<br>loading moments<br>loading rate   |
| DEF low inter cal, indu for Low UF   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment  x ray apparatus  . lixiscopes   | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads   | α<br>α  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium<br>force<br>force distribution<br>Hugoniot equation of state<br>load carrying capacity<br>e loading<br>loading moments<br>loading rate<br>mass distribution   |
| DEF low inter cal, indu for Low UF   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . lixiscopes portable equipment radiography  | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling   | α<br>α  | gust loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading loading moments loading rate mass distribution emechanics (physics)  |
| DEF<br>low inter<br>cal, indu<br>for Low<br>UF<br>GS   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . lixiscopes portable equipment radiography x ray astronomy   | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment  | α<br>α  | gust loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading loading moments loading rate mass distribution mechanics (physics) moment distribution   |
| DEF<br>low inter<br>cal, indu<br>for Low<br>UF<br>GS   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment  x ray apparatus  lixiscopes portable equipment radiography x ray astronomy x ray imagery   | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements)   | α<br>α  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium<br>force<br>force distribution<br>Hugoniot equation of state<br>load carrying capacity<br>loading<br>loading moments<br>loading rate<br>mass distribution<br>moment distribution<br>payloads  |
| DEF<br>low inter<br>cal, indu<br>for Low<br>UF<br>GS<br>RT   | turkeys  ses  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . Iixiscopes portable equipment radiography x ray astronomy x ray imagery  animals   | ∞ <b>loadin</b> g<br>SN<br>UF                            | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment  | α<br>α  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium<br>force distribution<br>Hugoniot equation of state<br>load carrying capacity<br>loading<br>loading moments<br>loading rate<br>mass distribution<br>mechanics (physics)<br>moment distribution<br>payloads<br>plane stress  |
| DEF<br>low inter<br>cal, indu<br>for Low<br>UF<br>GS   | turkeys  es  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . Iixiscopes portable equipment radiography x ray astronomy x ray imagery  animals . vertebrates   | ∞ <b>loadin</b> q<br>SN<br>UF<br>RT                      | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements) sweep effect variable amplitude loading  | α<br>α  | gust loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading loading moments loading rate mass distribution mechanics (physics) moment distribution payloads plane stress pressure  |
| DEF<br>low inter<br>cal, indu<br>for Low<br>UF<br>GS   | turkeys  ses  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . Iixiscopes portable equipment radiography x ray astronomy x ray imagery  animals   | ∞ <b>loading</b><br>SN<br>UF<br>RT                       | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements) sweep effect variable amplitude loading  forces  | α<br>α  | gust loads<br>. static loads<br>. transverse loads<br>ballast (mass)<br>equilibrium<br>force distribution<br>Hugoniot equation of state<br>load carrying capacity<br>loading<br>loading moments<br>loading rate<br>mass distribution<br>mechanics (physics)<br>moment distribution<br>payloads<br>plane stress  |
| DEF low inter cal, indu for Low UF GS  | turkeys  ses  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . Iixiscopes portable equipment radiography x ray astronomy x ray imagery  animals . vertebrates . reptiles Iizards  | ∞ <b>loading</b><br>SN<br>UF<br>RT                       | variable amplitude loading  g  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements) sweep effect variable amplitude loading  | α<br>α  | gust loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading loading moments loading rate mass distribution mechanics (physics) moment distribution payloads plane stress pressure pressure   |
| DEF low intercal, indu for Low UF GS RT  | turkeys  es  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used ntensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment . x ray apparatus . Iixiscopes portable equipment radiography x ray astronomy x ray imagery  animals . vertebrates . reptiles Iizards  Drientales (Colombia)   | ∞ loading<br>SN<br>UF<br>RT                              | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements) sweep effect variable amplitude loading forces loads (forces)   | α<br>α  | gust loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading loading moments loading rate mass distribution mechanics (physics) moment distribution payloads plane stress pressure pressure distribution pressure effects shafts (machine elements) shearing  |
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| DEF low intercal, indu for Low UF GS RT IIzards GS GS Llanos G GS LLACR (i USE LMCR (i USE LMFBR USE LNG   | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment x ray apparatus lixiscopes portable equipment radiography x ray astronomy x ray imagery  animals retribus retribus ligards  Lianos Orientales (Colombia) land grasslands Lianos Orientales (Colombia) landforms plains Lianos Orientales (Colombia) landforms plains Lianos Orientales (Colombia) landforms plains Lianos Orientales (Colombia) landforms liging) d July 2001) laser rangefinding lunar rangefinding liquid metal cooled reactors  liquid metal fast breeder reactors   | ∞ loading SN  UF RT  loading USE  loading GS RT          | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements) sweep effect variable amplitude loading  forces loads (forces)  g moments moments . loading moments aerodynamic loads bending moments flexing loads (forces) mass distribution moment distribution pressure distribution static loads structural analysis torque transverse loads  g operations feeders loading materials handling                    | ∞ lobes SN RT  local are DEF based, ti use the printers.    | . gust loads . static loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading loading moments loading rate mass distribution mechanics (physics) moment distribution payloads plane stress pressure pressure distribution pressure effects shafts (machine elements) shearing stress concentration stress intensity factors stresses structural design criteria weight (mass) wind pressure  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) antenna design antenna radiation patterns backlobes sidelobes  ea networks Networks, generally microcompute hat enable users in the same location t  |
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| DEF low intercal, indu for Low UF GS RT IIzards GS GS Llanos G GS LLACR (i USE LMCR (i USE LMFBR USE LNG USE LNG USE load car  | turkeys  Portable light weight battery operated sity x ray imaging systems with medistrial, and scientific applications. Used intensity X Ray Imaging Scopes.  Low Intensity X Ray Imaging Scopes medical equipment x ray apparatus lixiscopes portable equipment radiography x ray astronomy x ray imagery  animals retribus retribus ligards  Lianos Orientales (Colombia) land grasslands Lianos Orientales (Colombia) landforms plains Lianos Orientales (Colombia) landforms plains Lianos Orientales (Colombia) landforms plains Lianos Orientales (Colombia) landforms liging) d July 2001) laser rangefinding lunar rangefinding liquid metal cooled reactors  liquid metal fast breeder reactors   | ∞ loading SN  UF RT  loading USE  loading GS RT  loading | variable amplitude loading  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) dummy loads feeding (supplying) filling input loading operations loads (forces) payloads refilling replenishment shafts (machine elements) sweep effect variable amplitude loading forces loads (forces)  (moments moments aerodynamic loads bending moments  Ioading moments flexing loads (forces) mass distribution moment distribution pressure distribution static loads structural analysis torque transverse loads  (poperations feeders loading materials handling poperations unloading | ∞ lobes SN RT  local arr DEF based, ti use the printers. UF | gust loads . static loads . static loads . transverse loads ballast (mass) equilibrium force force distribution Hugoniot equation of state load carrying capacity loading moments loading rate mass distribution mechanics (physics) moment distribution payloads plane stress pressure pressure distribution pressure effects shafts (machine elements) shearing stress concentration stress intensity factors stresses structural design criteria weight (mass) wind pressure  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) antenna design antenna radiation patterns backlobes sidelobes  ea networks  Networks, generally microcompute hat enable users in the same location t same programs and equipment such a Used for LAN (computer networks).  LAN (computer networks) |

. computer networks . L-1011 aircraft vegetation . local area networks . L-2000 aircraft LOFAR architecture (computers) Lockheed model 18 aircraft carrier sense multiple access P-3 aircraft RT sonar data transmission . S-3 aircraft underwater acoustics SR-71 aircraft Ethernet LOFTI satellites interprocessor communication . T-33 aircraft USE low frequency transionospheric network control . U-2 aircraft satellites protocol (computers) X-35 aircraft . VSAT (network) XH-51 helicopter lofting wide area networks XV-4 aircraft aircraft design RT ∞ aircraft ascent trajectories local group (astronomy) computer aided design The cluster of galaxies to which our Lockheed C-5 aircraft differential geometry galaxy belongs. It is a poor, irregular cluster with USE C-5 aircraft engineering drawings some 20 certain members including the Milky mathematical models Lockheed CL-595 helicopter Way Galaxy, the Andromeda Galaxy, the Trianspacecraft design gulum, four irregular galaxies, and about 13 intermediate or dwarf ellipticals. USE XH-51 helicopter structural design Lockheed CL-823 aircraft ∞ surface geometry GS celestial bodies CL-823 aircraft templates . galactic clusters . local group (astronomy) Lockheed Constellation aircraft log periodic antennas Andromeda Galaxy USE C-121 aircraft GS antennas barred galaxies cosmology . directional antennas Lockheed L-2000 aircraft . log periodic antennas disk galaxies dwarf galaxies USE L-2000 aircraft antenna arrays antenna design elliptical galaxies Lockheed model 18 aircraft broadband Milky Way Galaxy Lockheed aircraft GS dipole antennas solar neighborhood Lockheed model 18 aircraft frequency response spiral galaxies Virgo galactic cluster monoplanes parasitic elements (antennas) Lockheed model 18 aircraft transport aircraft log spiral antennas local scientific survey module . Lockheed model 18 aircraft GS antennas modules GS RT ∞ aircraft . spiral antennas local scientific survey module log spiral antennas instrument packages Lockheed U-2 aircraft dipole antennas lunar exploration USE U-2 aircraft measuring instruments logarithmic receivers Lockheed XV-4A aircraft receivers local thermodynamic equilibrium (added April 1991) GS USE XV-4 aircraft logarithmic receivers communication equipment LTE (astronomy) locking frequency response stellar atmospheres UF interlocking intermediate frequency amplifiers stellar physics GS locking transfer functions thermodynamic equilibrium laser mode locking RT fasteners logarithms localization ∞ joining The power to which a fixed number, USE position (location) called the base, usually 10 or e (2. 7182818) must be raised to produce the value to which the logarithm corresponds. locks (fasteners) retaining LOCATES system Location of Air Traffic Satellites
air traffic control ∞ locks GS analysis (mathematics) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . complex variables Beacon satellites . . exponential functions navigation satellites RT air locks . . logarithms satellite guidance locks (fasteners) functions (mathematics) ∞ systems . transcendental functions locks (fasteners) . . exponential functions location GS fasteners . . logarithms USE position (location) locks (fasteners) RT exponents RT locking Location of Air Traffic Satellites  $\infty \, \text{locks}$ logging (industry) USE LOCATES system The business of felling trees, cutting locomotion them up into logs and transporting the logs to loci UF motility sawmills or to a place of sale. GS geometry GS locomotion RT forests . Euclidean geometry astronaut locomotion trees (plants) . . analytic geometry gait ... loci . running ∞ logic RT ∞ centers walking (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN conics exercise physiology navigation artificial intelligence line of sight propulsion points (mathematics) wheelchairs resolution Boolean algebra branching (mathematics) locomotives Lockheed 186 helicopter complements (mathematics) diesel engines USE XH-51 helicopter handling equipment expert systems fluid logic rail transportation Lockheed aircraft fluidics windshields formalism GS Lockheed aircraft . C-5 aircraft locusts information theory . C-121 aircraft GS animals logic circuits . C-130 aircraft . invertebrates logic design . C-140 aircraft . . arthropods mathematical logic . C-141 aircraft . . . insects paradoxes . philosophy . CL-823 aircraft . . locusts predicate calculus . Electra aircraft

farm crops

infestation

foliage

predicate logic

∞ principles

. F-94 aircraft

. F-104 aircraft

temporal logic downtime Mars bases threshold logic ∞ electric equipment ∞ missions planetary environments transistor logic energy policy facilities space adaptation syndrome logic circuits inventory management logic networks maintenance Long Island (NY) GS circuits matrix management landforms . logic circuits portable equipment . islands . threshold gates rapid transit systems Long Island (NY) adding circuits resource allocation Atlantic Ocean architecture (computers) resources New York arithmetic and logic units services central processing units shipyards Long March launch vehicles computers site selection (added January 1999) counting circuits stockpiling launch vehicles decisions storage Long March launch vehicles digital computers stowage (onboard equipment) Chinese space program evolvable hardware transportation Chinese spacecraft fluid logic ∞ travel heavy lift launch vehicles gates (circuits) utilities Shenzhou 5 spacecraft ∞ logic logical elements logistics management matrices (circuits) long period variables USE **Mira variables** GS management multipliers logistics management multivibrators . . inventory management . inventory controls neural nets long range navigation programmable logic devices reconfigurable hardware RT ∞ facilities USE Ioran maintenance ∞ relay resources long range weather forecasting switching circuits services GS meteorology threshold logic spare parts . weather forecasting transistor circuits ∞ storage . . long range weather forecasting transistor logic logistics over the shore (LOTS) carrier predictions . forecasting RT military technology logic design . . weather forecasting amplifier design . . . long range weather forecasting
RT Atmospheric General Circulation LOH helicopter architecture (computers) USE OH-6 helicopter computer aided design Models computer design numerical weather forecasting Loki rocket vehicle computer programming GS rocket vehicles statistical weather forecasting ∞ design . single stage rocket vehicles . . Loki rocket vehicle design analysis evolvable hardware long term effects sounding rockets
Loki rocket vehicle hardware description languages secular perturbation celestial mechanics solid propellant rocket engines logic programming climate WASP sounding rocket logical elements closed ecological systems programmable logic devices cycles LOLA (simulator) switching theory durability USE lunar orbit and landing simulators transistor logic ∞ effects life (durability) Lomonosov current logic networks life support systems GS circulation USE logic circuits orbit perturbation . water circulation ∞ performance . . water currents logic programming periodic variations ... ocean currents computer programming perturbation ... Lomonosov current logic programming storage stability Atlantic Ocean artificial intelligence time temperature parameter expert systems Gulf Stream logic design tropical regions temporal logic Long Term Zonal Earth Energy Experiment Long Duration Exposure Facility USE LZEEBE satellite LDEF logic units artificial satellites USE arithmetic and logic units GS scientific satellites long wave radiation
GS electromagnetic radiation . Long Duration Exposure Facility logical elements DEF In computers or data processing syslaboratories . radio waves tems, the smallest building blocks which can be . space laboratories . long wave radiation represented by operators in an appropriate sys-Long Duration Exposure Facility far infrared radiation tem of symbolic logic. Typical logical elements space platforms monochromatic radiation are the AND gate and flip-flop, which can be Long Duration Exposure Facility □ radiation space weathering represented as operators in a suitable symbolic short wave radiation logic. Used for decision elements. spaceborne experiments solar radiation decision elements Surface Meteorology and Solar computer components long duration space flight Energy project digital electronics Space flight involving interplanetary Surface Radiation Budget project ∞ elements and/or interstellar travel. Used for extended duration space flight. gates (circuits) long waves (meteorology) logic circuits extended duration space flight USE planetary waves logic design GS space flight long duration space flight Crew Exploration Vehicle logistics longerons logistics deep space ŪF astromasts extraterrestrial environments . lunar logistics GS structural members space logistics longerons fliaht aircraft maintenance flyby missions keels Army-Navy instrumentation program command and control interplanetary flight reinforcement (structures)

interstellar travel

cranes

deployment

manned Mars missions

manned space flight

ribs (supports)

strakes

stringers

structural stability navigation aids ∞ waves navigation instruments longshore currents surface navigation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) USE coastal currents ∞ svstems SN look angles (electronics) RT life (durability) DEF The solid angle in which an instrument A two dimensional pulse synchronized life span operates effectively, generally used to describe radio navigation system to determine hyperbolic radars, optical instruments, and space radiation lines of position through pulse time differencing Iongitude detectors. from a master compared to two slave stations. DEF Angular distance, along a primary great circle, from the adopted reference point; GS geometry Used for long range navigation. . Euclidean geometry long range navigation the angle between a reference plane through . . angles (geometry) GS navigation the polar axis and a second plane through that look angles (electronics) . radio navigation axis alignment . . hyperbolic navigation GS longitude directivity . . . loran . solar longitude . . . . Ioran C installing coordinates instrument orientation . loran D geodetic coordinates optical equipment air navigation latitude Decca navigation position (location) radar equipment distance measuring equipment navigation aids look angles (tracking) navigation instruments longitude measurement The elevation and azimuth at which a polar navigation RT latitude measurement particular satellite is predicted to be found at a solar compasses ∞ measurement navigation specified time. surface navigation positioning geometry surveys . Euclidean geometry . . angles (geometry) Ioran C longitudinal control . look angles (tracking) navigation pitch attitude control azimuth . radio navigation attitude control elevation angle . . hyperbolic navigation . longitudinal control field of view . . . loran aircraft control ... Ioran C altitude control loop antennas air navigation automatic control DEF Antennas whose configuration is that Decca navigation ∞ control of a loop. If the current in the loop, or in the navigation aids directional control parallel turns of the loop is essentially uniform helicopter control and the loop circumference is small compared Ioran D lateral control with the wavelength, the radiation pattern ap-GS navigation manual control proximates that of a magnetic dipole. radio navigationhyperbolic navigation missile control antennas GS pilot induced oscillation . directional antennas . . . loran pitch (inclination) . loop antennas ... loran D satellite attitude control RT aircraft antennas RT air navigation satellite control loops Decca navigation monopole antennas navigation aids longitudinal stability dynamic characteristics
. dynamic stability loop transfer functions Lorentz contraction (added September 1993) UF Fitzgerald-Lorentz contraction . . motion stability functions (mathematics) RT relativity . . . attitude stability transfer functions .... longitudinal stability . loop transfer functions Lorentz force stability control systems design DEF The force affecting a charged particle . dynamic stability due to the motion of the particle in a magnetic feedback control . . motion stability loop transfer recovery field . . . attitude stability RT charged particles . . longitudinal stability loop transfer recovery (added September 1993)
DEF The recovery of the transfer properties of the controller in a feedback control system compensation design. ∞ force aerodynamic stability aircraft stability magnetic fields ponderomotive forces directional stability flow stability Lorentz force accelerator thrusters hovering stability compensators (added April 2001) lateral stability control stability USE magnetoplasmadynamic thrusters pitch (inclination) control systems design pitching moments control theory Lorentz gas POGO effects error signals GS gases rotary stability feedback control . ionized gases spacecraft stability loop transfer functions . Lorentz gas ∞ recovery particles longitudinal waves systems stability . charged particles Waves in which the direction of dis-. . ionized gases placement at each point of the medium is normal . . Lorentz gas loops to the wave front. ĠS gas dynamics loops GS longitudinal waves corrosion test loops kinetic theory . plane waves circuits beams (radiation) closed cycles Lorentz transformations dilatational waves loop antennas functions (mathematics) elastic waves toruses Lorentz transformations electrostatic waves trusses Dirac equation frequencies invariance normal shock waves LOR (rendezvous) Mandelstam representation USE lunar orbital rendezvous ∞ radiation seismic waves LORV shock waves LORAC navigation system low observable reentry vehicles solar radiation GS navigation . radio navigation Los Alamos Molten Plutonium Reactor sound waves . . hyperbolic navigation transverse waves nuclear reactors

. LORAC navigation system

RT distance measuring equipment

. liquid cooled reactors

. . liquid metal cooled reactors

wave packets

wavelengths

#### . . . Los Alamos Molten Plutonium Reactor

. nuclear research and test reactors
. . Los Alamos Molten Plutonium
Reactor

Los Alamos Turret Reactor

USE high temperature nuclear reactors

#### Los Alamos Water Boiler Reactor

GS nuclear reactors

- . liquid cooled reactors
- . . water cooled reactors
- . . . boiling water reactors
- . . . . Los Alamos Water Boiler Reactor

#### loss of coolant

UF coolant loss

GS accidents

. loss of coolant

RT coolants leakage losses

nuclear reactors reactor materials

#### losses

GS losses

. dielectric loss auditory defects

commerce
damage
depletion
eddy currents
energy dissipation

impairment insertion loss leakage legal liability liabilities

liabilities
loss of coolant
ohmic dissipation
plasma loss
seepage

transmission loss wastes water loss yield

#### lossless equipment

RT lossless materials

#### lossless materials

DEF Dielectric materials that do not dissipate energy or that do not dampen oscillations.

GS dielectrics
. lossless materials

RT lossless equipment

∞ materials

#### lossy media

DEF A material that dissipates electromagnetic or acoustic energy passing through it.

RT electromagnetic wave transmission ionospheric propagation transmission loss wave propagation

lost wax process

USE investment casting

LOTS cargo ships
USE cargo ships

#### loudness

DEF The intensive attribute of an auditory sensation, in terms of which sounds may be ordered on a scale extending from soft to loud. Loudness is measured in sones. Loudness depends primarily upon the sound pressure of the stimulus, but it also depends upon the frequency and waveform of the stimulus.

RT acoustics

effective perceived noise levels

flux density hearing

intensity
 level (quantity)
 noise (sound)

noise measurement noise reduction power spectra sound intensity sound pressure sound waves

#### loudspeakers

GS audio equipment

. loudspeakers

transducers

. sound transducers

. . electroacoustic transducers

... loudspeakers monaural signals

radio receivers sound generators

#### Louisiana

GS nations

. United States

. . Louisiana

T Atchafalaya River Basin (LA) Gulf of Mexico

Lake Pontchartrain (LA) Mississippi Delta (LA)

#### 

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

RT mobile lounges rooms seats

#### louvers

#### Love waves

DEF Surface waves having a horizontal motion that is shear or transverse to the direction of propagation. Their velocity depends only on density and rigidity and not on bulk modulus. They are named after A.E.H. Love, the English mathematician who discovered them.

SS elastic waves

. seismic waves

. . Love waves

RT surface waves

low alloy steels

USE high strength steels

#### low altitude

GS altitude

. low altitude

elevation

lower atmosphere midaltitude

nap-of-the-earth navigation

terrain following

#### low aspect ratio

GS ratios

. aspect ratio

... low aspect ratio

# low aspect ratio wings

UF diamond wings GS airfoils

. wings

. . low aspect ratio wings

. . . delta wings . . . trapezoidal wings

T cruciform wings fixed wings rigid wings wing planforms

#### low carbon steels

DEF Iron alloys containing carbon in low percentages that display temper and malleability

characteristics not found in ordinary carbon steels

GS alloys

. iron alloys

. . steels . . . carbon steels

.... low carbon steels

RT iron

#### low concentrations

GS composition (property)

. concentration (composition)

... low concentrations

RT dilution

#### low conductivity

electric current electrical resistivity transconductance

#### low cost

GS costs
. low cost
RT economy

#### low currents

GS electric current
. low currents
RT dark current
low voltage
plasma currents

#### low density flow

GS fluid flow . low density flow

RT ∞ flow

molecular flow rarefied gas dynamics rarefied gases

low density gases
USE rarefied gases

## low density materials

ensity materials

- absorbents
absorbers (materials)
foams
granular materials
honeycomb cores
honeycomb structures
light elements
∞ materials
polyurethane foam
porous materials
porous plates

powder metallurgy

## low density research

GS research

. low density research

blowdown wind tunnels collisionless plasmas composite materials epoxy matrix composites nonuniform plasmas plasmas (physics) rarefied gases shock tubes shock tunels shock wave luminescence ultrahigh vacuum

#### low density wind tunnels

GS test facilities

. wind tunnels

. . low density wind tunnels

vacuum apparatus

T hypersonic wind tunnels hypervelocity wind tunnels plasma jets rarefied gas dynamics shock tubes shock tunnels slip flow supersonic wind tunnels

low Earth orbital environments
USE Earth orbital environments

#### low Earth orbits

(added April 1995)

DEF Nominally circular Earth orbits of low  $\infty$  vehicles spacecraft stability altitude (typically between 100 and 1,000 km.) and short periodicity. low speed wind tunnels low pass filters UF LEO GS test facilities DEF Wave filters having a single transmis-GS orbits . wind tunnels sion band extending from zero frequency up to . Earth orbits . . low speed wind tunnels some critical or bounding frequency, not infinite. . low Earth orbits . subsonic wind tunnels RT bandstop filters Earth orbital environments RT blowdown wind tunnels electric filters elliptical orbits electromagnetic wave filters interplanetary transfer orbits low temperature ∞ filters temperature parking orbits GS Gabor filters . low temperature polar orbits microwave filters remote sensing . cryogenic temperature optical filters satellite orbits bay ice cooling low pressure low frequencies cryogenics pressure (30 TO 300 KHZ) freezing low pressure frequencies frost . high altitude pressure . radio frequencies frost damage altitude tolerance ... low frequencies ice formation cyclogenesis . . very low frequencies magnetic cooling cyclones pressure ice RT ∞ bands ∞ depression extremely low frequencies refrigerating high altitude environments high frequencies high pressure intermediate frequencies low temperature brazing hypobaric atmospheres ultrahigh frequencies welding GS troughs very high frequencies . fusion welding vacuum . . gas welding low frequency transionospheric satellites . . . brazing LOFTI satellites . low temperature brazing low pressure chambers artificial satellites soldering USE vacuum chambers . communication satellites . . low frequency transionospheric low temperature environments environments (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . low temperature environments low gravity cold strength USE microgravity chemical properties cold weather electrical resistance high altitude environments low gravity manufacturing flow resistance lunar temperature manufacturing mechanical properties magnetic cooling . low gravity manufacturing ∞ resistance mountain inhabitants containerless melts thermal resistance thermal environments drop towers transconductance fabrication low temperature physics levitation melting RT cryochemistry low Reynolds number liquid bridges cryogenics (RN BELOW 2,000) Marangoni convection high temperature superconductors A Reynolds number below the critical metal foams Kondo effect Reynolds number of a sphere. microgravity ∞ physics GS dimensionless numbers microgravity applications space manufacturing ∞ science . Reynolds number solidified gases . . low Reynolds number space processing superconducting power transmission superconductivity space tools . Reynolds number technologies YBCO superconductors . . low Reynolds number direct numerical simulation Low Intensity X Ray Imaging Scopes low temperature plasmas high Reynolds number USE lixiscopes USE cold plasmas laminar flow viscosity low latitudes low temperature tests environmental tests
. low temperature tests USE tropical regions GS low speed UF low velocity low level turbulence chemical tests rates (per time) GS cold strength GS turbulence low speed . atmospheric turbulence cold weather tests velocity cryostats . low level turbulence low speed homogeneous turbulence hardness tests RT airspeed flow velocity lubricant tests low mass melting points ground speed USE mass nondestructive tests landing speed quality control subsonic speed low molecular weights temperature control GS molecular properties ∞ tests . molecular weight low speed stability thermal expansion . low molecular weights GS dynamic characteristics thermal stability diatomic molecules . dynamic stability molecules . . motion stability low thrust monatomic molecules low speed stability GS thrust weight (mass) stability . low thrust . dynamic stability . microthrust . . motion stability low noise high thrust ... low speed stability preamplifiers jet thrust aerodynamic stability signal to noise ratios rocket thrust aerodynamic stalling variable thrust aircraft stability low observable reentry vehicles LORV attitude stability low thrust propulsion GS reentry vehicles controllability GS propulsion low thrust propulsion . low observable reentry vehicles dvnamic tests

flight characteristics

flow stability

hovering stability

. . electromagnetic propulsion . . . magnetic sails

. . electrostatic propulsion

radar cross sections

reentry physics

reentry

... ion propulsion turboprop aircraft RT Bullpup missiles .. man operated propulsion systems . . photonic propulsion lower atmosphere SN (ALTITUDE BELOW ABOUT 50 KM)
DEF Generally, and quite loosely, that part
of the atmosphere in which most weather phe-. laser propulsion LR-87-AJ-5 engine . . plasma propulsion GS engines . . solar propulsion . rocket engines nomena occur (i.e., the troposphere and lower ... solar electric propulsion . . booster rocket engines stratosphere); hence, used in contrast to the common meaning for the upper atmosphere. . . solar thermal propulsion ... LR-87-AJ-5 engine RT electric propulsion . . liquid propellant rocket engines microthrust. GS Earth atmosphere ... LR-87-AJ-5 engine rocket thrust lower atmosphere RT Titan 1 ICBM space station propulsion . . troposphere spacecraft propulsion . . tropopause variable thrust biosphere LR-91-AJ-5 engine chemosphere GS engines heterosphere low turbulence . rocket engines GS turbulence homosphere . . liquid propellant rocket engines Intasat satellite . low turbulence . LR-91-AJ-5 engine LACATE (experiment) steady flow RT Titan ICBM low altitude mesometeorology low vacuum middle atmosphere SN (PRESSURES BETWEEN 3. 001 AND 1. 0 LRC circuits The condition in a gas filled space at Lower Atmospheric Composition Experiment USE RLC circuits pressures less than 760 torr corresponding ap-USE LACATE (experiment) proximately to the vapor pressure of water at 25 deg. C and to 1 inch of mercury. lower body negative pressure LRV (vehicle) GS pressure Application and/or measurement of re-USE lunar roving vehicles vacuum duced pressure in the portion of the body below . low vacuum the iliac crests. Used as a simulator or orthoshigh vacuum tatic stress or as an indicator of cardiovascular L-Sat deconditioning in a weightless environment. DEF A communications satellite designed by European Space Agency member states to meet future communications satellite market needs such as European broadcast services, low velocity GS hemodynamics USE low speed lower body negative pressure pressure low visibility . blood pressure global telecommunications trunk services, and visibility GS lower body negative pressure mobile services. Used for European Large Tele-. low visibility acceleration stresses (physiology) comm Satellite. aircraft landing artificial gravity European Large Telecomm Satellite UF all-weather landing systems cardiovascular system GS artificial satellites hazards fluid shifts (biology) . communication satellites haze gravitational effects L-Sat instrument flight rules head up tilt . ESA satellites light transmission orthostatic tolerance . L-Sat space flight stress ESA spacecraft stress (physiology) low voltage . ESA satellites GS potential energy tilt-table test L-Sat electric potential weightlessness satellite networks low voltage Lower California (Mexico) UF Baja California low currents low volume ramjet engines LSI RT Mexico USE large scale integration GS engines North America . air breathing engines
. . gas turbine engines lower ionosphere LSS (cosmology) (added May 2002) ... jet engines GS Earth atmosphere . . . . ramjet engines . upper atmosphere ... low volume ramjet engines .. Earth ionosphere USE large-scale structure of the . internal combustion engines ... lower ionosphere universe . . gas turbine engines . . D region . . . jet engines RT E region . . . . ramjet engines LSSM . low volume ramjet engines LOX (oxygen) USE liquid oxygen UF Lunar Surface Scientific Modules . turbine engines lunar spacecraft . . gas turbine engines . lunar landing modules . . . jet engines LOX-hydrocarbon rocket engines . . Lunar Module . . . . ramjet engines USE oxygen-hydrocarbon rocket ..LSSM .... low volume ramjet engines engines manned spacecraft . Lunar Module low weight LOX-hydrogen engines . . LSSM gravitation RT USE hydrogen oxygen engines modules microgravity weightlessness . spacecraft modules LPTR Reactor . . landing modules USE Livermore Pool Type Reactor . . . lunar landing modules ∞ low wing aircraft . . . . Lunar Module (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) LQG control . LSSM linear quadratic Gaussian control USE soft landing spacecraft RT ∞ aircraft . landing modules aircraft configurations Beech 99 aircraft LQR . . lunar landing modules USE linear quadratic regulator . . . Lunar Module general aviation aircraft ...LSSM hypersonic aircraft LR circuits spacecraft components jet aircraft USE RL circuits spacecraft modules light aircraft . . landing modules . . . lunar landing modules monoplanes LR-62-RM-2 engine . . . . Lunar Module passenger aircraft GS engines tailless aircraft . . LSSM . rocket engines

. liquid propellant rocket engines

LR-62-RM-2 engine

transport aircraft

turbofan aircraft

RT Apollo project

lunar laboratories

∞ surfaces vapor phase lubrication light from the source upon a unit surface area oriented normal to the line of sight at any lucite (trademark) distance from the source, divided by the solid USE polymethyl methacrylate LST angle subtended by the source at the receiving USE Hubble Space Telescope surface. Also called brightness but luminance is Luder bands plastic deformation USE GS pressure yield point LTE (astronomy) . radiation pressure USE local thermodynamic equilibrium . . luminous intensity Ludox (trademark) . . luminance Composite material utilizing colloidal rates (per time) silica matrixes. LTV aircraft . flux density refractory materials USE Ling-Temco-Vought aircraft . . radiant flux density Ludox (trademark) . . . luminous intensity densification . . . luminance heat shielding lubricant tests RT brightness reentry shielding engine tests glare spacecraft construction materials high temperature tests illuminance thermal protection low temperature tests illuminating tiles ∞ materials tests ∞ intensity ∞ tests irradiance lugs tribometers light (visible radiation) RT fasteners wear resistance lumens holders optical properties photometry studs (structural members) supports **lubricants** sky brightness Substances interposed between two solar flux density lumbar region surfaces for the purpose of reducing the friction stellar magnitude anatomy or wear between them. lumbar region GS lubricants luminescence regions . gas lubricants Light emission by a process in which lumbar region kinetic heat energy is not essential for the mechanism of excitation. Used for glow and . high temperature lubricants human body . lubricating oils sciatic region solid lubricants noctilucence additives glow UF lumbering areas boundary lubrication noctilucence USE forests graphite GS emission greases . light emission lumens kerogen DEF Units of luminous flux equal to the . . luminescence liquid metals . . . bioluminescence luminous flux radiated into a unit solid angle lubrication (steradian) from a point source having a luminous intensity of 1 candela. . . . cathode glow lubrication systems cathodoluminescence maintenance chemiluminescence pressure GS electroluminescence . radiation pressure petroleum products fluorescence . lumens squeeze films . . . . laser induced fluorescence rates (per time) ... phosphorescence . flux density ... resonance fluorescence . . radiant flux density lubricating oils . x ray fluorescence . lumens lubricants GS lunar luminescence light (visible radiation) . lubricating oils optical resonance luminance . . . photoluminescence luminescence . lubricating oils . triboluminescence luminosity detergents lubrication RT .... x ray fluorescence optical properties . . . shock wave luminescence radiance mineral oils ... sonoluminescence petroleum products spacecraft glow **luminaires** shale oil . . thermoluminescence electroluminescent lamps afterglows lamps alkali vapor lamps light bulbs lubrication brightness. lights lubrication electron-hole drops lighting equipment . boundary lubrication Fraunhofer line discriminators . Iuminaires self lubrication ∞ illumination . . aircraft lights spacecraft lubrication illuminators . . airport lights vapor phase lubrication incandescence . . . runway lights light (visible radiation) light emitting diodes bearings arc lamps elastohydrodynamics . . flash lamps engines . . . alkali vapor lamps lumens friction reduction luminosity . . mercury lamps gears luminous intensity . . quartz lamps impregnating . . searchlights noctilucent clouds liquid bearings optical transition . xenon lamps lubricants ballasts (impedances) plasma radiation lubricating oils stellar luminosity bulbs lubrication systems Stokes law of radiation fixtures maintenance temperature sensitive paints ∞ flares self lubricating materials ∞ alobes visibility sliding illuminating light (visible radiation) tribology luminescent intensity light sources USE luminous intensity projectors **lubrication** systems luminescent proteins visual signals automobiles (added August 2004) cooling systems DEF Proteins which are involved in the pheluminance nomenon of light emission in living systems. Included are the "enzymatic" and "non-enzymatic" types of system with or without the presence of oxygen or co-factors. internal combustion engines (LIMITED TO EMISSION RATE PER UNIT DEF In photometry, a measure of the intrinsic luminous intensity emitted by a source in a given direction; the illuminance produced by **lubricants** lubrication pumps

GS biopolymers

∞ systems

. proteins lumped parameter systems lunar excavation equipment . luminescent proteins lunar shelters organic compounds LUNA lunar probes lunar surface vehicles . proteins USE Lunik lunar probes . luminescent proteins lunar core lunar albedo bioluminescence GS cores GS albedo . lunar core lunar albedo RT lunar composition RT luminosity absorptance lunar geology cosmic ray albedo GS electromagnetic properties planetary cores . optical properties Earth albedo selenology . . luminosity optical properties . stellar luminosity surface properties lunar craters brightness DFF A depression, usually circular, on the emissivity lunar atmosphere surface of the moon, usually with a raised rim emittance lunar ionosphere called a ringwall. GS illuminance environments GS craters incandescence . extraterrestrial environments **lunar craters** light (visible radiation) . . lunar environment . . Ptolemaeus Crater lumens ... lunar atmosphere . Tycho crater luminescence . . satellite atmospheres RT meteorite craters mass to light ratios ... lunar atmosphere moon phosphene moon pre-Imbrian period radiance planetary atmospheres selenography radiant flux density selenology Tully-Fisher relation lunar based equipment visibility (added December 1990) lunar crust GS lunar based equipment GS crusts lunar construction equipment lunar crust luminous flux density lunar excavation equipment RT Earth crust USE luminous intensity lunar retroreflectors moon RT ∞ equipment planetary crusts lunar bases selenography luminous intensity lunar flying vehicles selenology (LIMITED TO EMISSION OR DETECTION RATE PER UNIT AREA OF VISIBLE RADIATION) SN lunar laboratories lunar logistics lunar dust lunar mining Luminous energy per unit time per unit GS particles solid angle; the intensity (flux per unit solid angle) of visible radiation weighted to take into lunar shelters . dust lunar surface vehicles .. lunar dust account the variable response of the human eye soils lunar bases as a function of the wavelength of light; usually . lunar soil space bases GS expressed in candles. Used for light intensity, . lunar dust lunar bases luminescent intensity, and luminous flux density. RT moon RT **AEPS** UF light intensity selenology ∞ astronautics luminescent intensity ∞ bases luminous flux density lunar echoes lunar based equipment GS pressure GS echoes lunar construction equipment . radiation pressure . lunar echoes lunar laboratories ... luminous intensity . lunar radar echoes lunar mining . . . illuminance RT radio echoes Mars bases . . luminance selenology moon rates (per time) orbiting lunar stations . flux density lunar eclipses . . radiant flux density space colonies The phenomenon observed when the stations . . . luminous intensity moon enters the shadow of the Earth. . . . . illuminance terraforming GS eclipses . luminance . lunar eclipses lunar cinematography RT BL Lacertae objects RT moon USE lunar photography brightness selenology emittance lunar communication flux (rate) lunar effects GS telecommunication incandescence lunar perturbation . space communication ∞ intensity lunar effects ... lunar communication irradiance . lunar gravitational effects light (visible radiation) . . circumlunar communication lunar tides facsimile communication luminescence RT ∞ effects interplanetary communication mass to light ratios orbit perturbation lasers radiancy selenology moon Seyfert galaxies optical communication solar flux density lunar environment radar stellar magnitude radio communication GS environments . extraterrestrial environments satellite communication spacecraft communication . . lunar environment lumped parameter systems . . lunar atmosphere Systems in which the parameters may be considered to represent, for purposes of lunar composition aerospace environments analysis, a single inductance, capacitance, re-GS composition (property) bioastronautics lunar composition exobiology sistance, etc., throughout the frequency range of lunar core life support systems interest Lunar Prospector moon lumping RT planetary environments moon mathematical models pre-Imbrian period selenology matrices (mathematics) selenology siderophile elements terraforming ∞ systems thermal environments lumping lunar construction equipment lunar equator (added December 1990) equators RT agglomeration GS

lunar based equipment

lunar bases

lunar construction equipment

GS

RT

coagulation

composition (property)

collection

lunar equator

infrared imagery

radar imagery

RT

| selenology                                       | Apollo 8 flight  | Apollo 13 flight                                      |
|--|--|---|
| lunar escape devices                             | Apollo 9 flight  | Apollo 14 flight                                      |
| RT escape capsules                               | Apollo 10 flight<br>Apollo 11 flight                               | Apollo 15 flight<br>Apollo 16 flight                  |
| escape rockets                                   | Apollo 12 flight   | Apollo 17 flight                                      |
| •  | Apollo 13 flight   | Apollo lunar experiment module                        |
| lunar evolution                                  | Apollo 14 flight   | crash landing   |
| GS evolution (development) . lunar evolution     | Apollo 15 flight   | hard landing  |
| RT moon  | Apollo 16 flight   | planetary landing                                     |
| pre-Imbrian period                               | Apollo 17 flight<br>circumlunar trajectories                       | soft landing<br>Surveyor project                      |
| selenology                                       | cislunar space   | Guilloyo. project                                     |
| solar system evolution                           | Earth-Moon trajectories  | lunar landing modules                                 |
| lunar avagustian aguinment                       | ∞ flight   | GS lunar spacecraft                                   |
| lunar excavation equipment (added December 1990) | flyby missions   | . <b>lunar landing modules</b><br>Lunar Module        |
| GS lunar based equipment                         | moon-Earth trajectories orbits                                     | Apollo lunar experiment module                        |
| lunar excavation equipment                       | Olbito   | LSSM  |
| RT ∞ equipment                                   | lunar flying vehicles  | Lunar Module 5  |
| excavation                                       | RT ∞ flight vehicles   | Lunar Module 7  |
| lunar construction equipment<br>lunar mining     | lifting bodies   | modules . spacecraft modules                          |
| lunar resources                                  | lunar based equipment<br>∞ vehicles                                | landing modules                                       |
| lunar surface vehicles                           | ∞ verilicies   | lunar landing modules                                 |
| tractors   | lunar geology  | Lunar Module  |
| Lance design                                     | DEF The science that applies geologic prin-                        | Apollo lunar experiment                               |
| lunar exploration GS exploration                 | ciples and techniques to the study of the moon,                    | module  |
| . space exploration                              | especially its composition and the origin of its surface features. | LSSM<br>Lunar Module 5                                |
| lunar exploration                                | GS geology   | Lunar Module 7  |
| RT Apollo 5 flight                               | . lunar geology  | soft landing spacecraft                               |
| Apollo 6 flight                                  | RT geomorphology   | . landing modules                                     |
| Apollo 7 flight                                  | lunar core   | lunar landing modules                                 |
| Apollo 8 flight<br>Apollo 9 flight               | lunar maria  | Lunar Module  |
| Apollo 9 flight                                  | lunar seismographs<br>moon   | Apollo lunar experiment module LSSM                   |
| Apollo 11 flight                                 | moonquakes   | Lunar Module 5  |
| Apollo 12 flight                                 | planetary geology  | Lunar Module 7  |
| Apollo 13 flight                                 | pre-Imbrian period   | spacecraft components                                 |
| Apollo 14 flight                                 | regolith   | . spacecraft modules                                  |
| Apollo 15 flight<br>Apollo 16 flight             | seismology   | landing modules                                       |
| Apollo 17 flight                                 | selenology   | <b>lunar landing modules</b><br>Lunar Module          |
| Apollo lunar experiment module                   | lunar gravitation  | Apollo lunar experiment                               |
| Apollo Lunar Surface Experiments                 | GS gravitation   | module  |
| Package  | . lunar gravitation  | LSSM  |
| Apollo project                                   | RT moon  | Lunar Module 5  |
| Clementine spacecraft Crew Exploration Vehicle   | planetary gravitation  | Lunar Module 7  |
| EASEP  | selenology   | RT Apollo extension system<br>maneuverable spacecraft |
| extraterrestrial resources                       | lunar gravitational effects  | manned spacecraft                                     |
| local scientific survey module                   | GS gravitational effects   | reusable spacecraft                                   |
| Lunar Prospector                                 | lunar gravitational effects  | unmanned spacecraft                                   |
| lunar resources                                  | lunar effects<br>. lunar gravitational effects                     | lunar landing sites                                   |
| Mars exploration<br>moon                         | RT ∞ effects   | GS sites  |
| selenology                                       | selenology   | . landing sites                                       |
| <i>。</i>   | 57   | lunar landing sites                                   |
| Lunar Exploration System for Apollo              | Lunar Gravity Simulator  | RT moon   |
| UF LESA (lunar exploration system)               | GS simulators  | selenography  |
| RT Apollo 5 flight Apollo 6 flight               | . environment simulators<br>Lunar Gravity Simulator                | lunar laser ranging                                   |
| Apollo 7 flight                                  | RT gravitation   | (added July 2001)                                     |
| Apollo 8 flight                                  | g  | USE laser ranging                                     |
| Apollo 9 flight                                  | lunar ionosphere   | lunar rangefinding                                    |
| Apollo 10 flight                                 | USE lunar atmosphere   | Land to the second                                    |
| Apollo 11 flight<br>Apollo 12 flight             | lunar laboratories   | lunar launch  |
| Apollo 13 flight                                 | (added April 1993)   | GS launching . rocket launching                       |
| Apollo 14 flight                                 | GS laboratories  | lunar launch  |
| Apollo 15 flight                                 | . lunar laboratories   | RT Apollo 5 flight                                    |
| Apollo 16 flight                                 | lunar receiving laboratory   | Apollo 6 flight                                       |
| Apollo 17 flight                                 | RT LSSM  | Apollo 7 flight                                       |
| Apollo project<br>∞ systems                      | lunar based equipment<br>lunar bases                               | Apollo 8 flight<br>Apollo 9 flight                    |
| ∞ systems  | lunar observatories  | Apollo 9 flight                                       |
| lunar far side                                   | space laboratories   | Apollo 11 flight                                      |
| RT libration                                     |  | Apollo 12 flight                                      |
| moon   | lunar landing  | Apollo 13 flight                                      |
| selenology                                       | GS landing . spacecraft landing                                    | Apollo 15 flight                                      |
| lunar figure                                     | . spacecraπ landing<br><b>lunar landing</b>                        | Apollo 15 flight<br>Apollo 16 flight                  |
| RT selenology                                    | RT Apollo 5 flight   | Apollo 17 flight                                      |
| 57   | Apollo 6 flight  | orbital launching                                     |
| lunar flight                                     | Apollo 7 flight  | Saturn project  |
| GS space flight                                  | Apollo 8 flight  | loon on Book  |
| . <b>lunar flight</b><br>RT Apollo 5 flight      | Apollo 9 flight<br>Apollo 10 flight                                | lunar limb<br>RT libration                            |
| Apollo 6 flight                                  | Apollo 10 llight Apollo 11 flight                                  | ∞ limbs   |
| Apollo 7 flight                                  | Apollo 12 flight   | moon  |

|             | planetary limb                 |       | Lunar Module 5                 |         | lunar landing modules                |
|-------------|--------------------------------|-------|--------------------------------|---------|--------------------------------------|
|             | selenology                     |       | Lunar Module 7                 |         | Lunar Module                         |
|             | ocionology                     |       | modules                        |         | Lunar Module 7                       |
| lunar l     | agistics                       |       |                                |         |                                      |
|             | ogistics                       |       | . spacecraft modules           |         | spacecraft components                |
| GS          | logistics                      |       | landing modules                |         | . spacecraft modules                 |
|             | . lunar logistics              |       | lunar landing modules          |         | landing modules                      |
| RT          | life support systems           |       | Lunar Module                   |         | lunar landing modules                |
|             | lunar based equipment          |       | Apollo lunar experiment        |         | Lunar Module                         |
|             | manned lunar surface vehicles  |       | module                         |         | Lunar Module 7                       |
|             | materials handling             |       | LSSM                           | DT      | Apollo spacecraft                    |
|             | materials rianding             |       |                                | IXI     | Apollo Spaceciali                    |
| lean and le |                                |       | Lunar Module 5                 |         | M. I. I. A                           |
|             | uminescence                    |       | Lunar Module 7                 |         | Module Ascent Stage                  |
| GS          | emission                       |       | soft landing spacecraft        | RT      | ascent                               |
|             | . light emission               |       | . landing modules              |         | ascent trajectories                  |
|             | luminescence                   |       | lunar landing modules          |         | rocket engines                       |
|             | lunar luminescence             |       | Lunar Module                   |         | stage separation                     |
| RT          | moon                           |       | Apollo lunar experiment module |         | olago coparation                     |
| 111         |                                |       |                                | lunar o | bservatories                         |
|             | selenology                     |       | LSSM                           |         |                                      |
|             |                                |       | Lunar Module 5                 | GS      |                                      |
|             | nagnetic fields                |       | Lunar Module 7                 |         | . lunar observatories                |
| GS          | magnetic fields                |       | spacecraft components          | RT      | astronomical observatories           |
|             | . lunar magnetic fields        |       | . spacecraft modules           |         | lunar laboratories                   |
| RT          | moon                           |       | landing modules                |         |                                      |
|             | selenology                     |       | lunar landing modules          | lunar o | occultation                          |
|             | ocionology                     |       |                                |         | occultation                          |
| lunarn      | aantla                         |       | Lunar Module                   | 03      |                                      |
| lunar n     |                                |       | Apollo lunar experiment        |         | . lunar occultation                  |
| RT          | core-mantle boundary           |       | module                         |         | solar eclipses                       |
|             | crusts                         |       | LSSM                           | RT      | Exosat satellite                     |
|             | Earth mantle                   |       | Lunar Module 5                 |         | moon                                 |
|             | planetary mantles              |       | Lunar Module 7                 |         | selenology                           |
|             | planetary structure            | DT    |                                |         | stellar occultation                  |
|             | regolith                       | RI    | Apollo 5 flight                |         | Stellar occultation                  |
|             | 0                              |       | Apollo 6 flight                |         | 124 - 114 - 12 - 12 - 14 - 14        |
|             | selenology                     |       | Apollo 7 flight                |         | orbit and landing simulators         |
|             |                                |       | Apollo 8 flight                | UF      | LOLA (simulator)                     |
| lunar n     | naps                           |       | Apollo 9 flight                | GS      | simulators                           |
| GS          | maps                           |       | Apollo 10 flight               |         | . lunar orbit and landing simulators |
|             | . lunar maps                   |       | 1 0                            | RT      | flight simulators                    |
| RT          | astronomical maps              |       | Apollo 11 flight               | 111     | training simulators                  |
| 101         | Clementine spacecraft          |       | Apollo 12 flight               |         | training simulators                  |
|             |                                |       | Apollo 13 flight               | lunar a | whitel was damies                    |
|             | moon                           |       | Apollo 14 flight               |         | orbital rendezvous                   |
|             | selenography                   |       | Apollo 15 flight               |         | LOR (rendezvous)                     |
|             |                                |       | Apollo 16 flight               | GS      | maneuvers                            |
| lunar n     | naria                          |       | Apollo 17 flight               |         | . orbital maneuvers                  |
| GS          | maria                          |       |                                |         | orbital rendezvous                   |
|             | . lunar maria                  |       | Apollo spacecraft              |         | lunar orbital rendezvous             |
| RT          | basalt                         |       | ascent propulsion systems      |         |                                      |
| KI          |                                |       |                                |         | rendezvous                           |
|             | lunar geology                  | Lunar | Module 5                       |         | . space rendezvous                   |
|             | lunar rocks                    |       |                                |         | orbital rendezvous                   |
|             | selenology                     | GS    |                                |         | lunar orbital rendezvous             |
|             |                                |       | . lunar landing modules        | RT      | Earth orbital rendezvous             |
| lunar n     | ninina                         |       | Lunar Module                   |         | orbital mechanics                    |
|             | led December 1990)             |       | Lunar Module 5                 |         | spacecraft trajectories              |
|             |                                |       | manned spacecraft              |         | spaceciait trajectories              |
| GS          | mining                         |       | . Lunar Module                 |         | 0.13                                 |
|             | . lunar mining                 |       | Lunar Module 5                 | Lunar   |                                      |
| RT          | lunar based equipment          |       |                                | GS      | artificial satellites                |
|             | lunar bases                    |       | modules                        |         | . lunar satellites                   |
|             | lunar excavation equipment     |       | . spacecraft modules           |         | Lunar Orbiter                        |
|             | lunar resources                |       | landing modules                |         | Lunar Orbiter 1                      |
|             | lunar rocks                    |       | lunar landing modules          |         | Lunar Orbiter 2                      |
|             | lunar soil                     |       | Lunar Module                   |         | Lunar Orbiter 3                      |
|             |                                |       | Lunar Module 5                 |         |                                      |
|             | mineral deposits               |       | soft landing spacecraft        |         | Lunar Orbiter 4                      |
|             | mines (excavations)            |       | . landing modules              |         | Lunar Orbiter 5                      |
|             | space commercialization        |       |                                |         | lunar spacecraft                     |
|             | space industrialization        |       | lunar landing modules          |         | . lunar satellites                   |
|             | strip mining                   |       | Lunar Module                   |         | Lunar Orbiter                        |
|             |                                |       | Lunar Module 5                 |         | Lunar Orbiter 1                      |
| lunar n     | nobile laboratories            |       | spacecraft components          |         | Lunar Orbiter 2                      |
| UF          | MOLABS                         |       | . spacecraft modules           |         | Lunar Orbiter 3                      |
|             |                                |       | landing modules                |         | Lunar Orbiter 4                      |
| GS          | laboratories                   |       | lunar landing modules          |         |                                      |
|             | . lunar mobile laboratories    |       | Lunar Module                   |         | Lunar Orbiter 5                      |
|             | surface vehicles               |       |                                |         |                                      |
|             | . lunar surface vehicles       |       | Lunar Module 5                 | Lunar   | Orbiter 1                            |
|             | lunar mobile laboratories      | RT    | Apollo spacecraft              | UF      | Lunar Orbiter A                      |
| RT          | Apollo project                 |       |                                | GS      | artificial satellites                |
|             | manned lunar surface vehicles  | Lunar | Module 7                       | 00      | . lunar satellites                   |
|             |                                | GS    |                                |         | Lunar Orbiter                        |
|             | selenography                   | GS    |                                |         |                                      |
|             | M. I. I.                       |       | . lunar landing modules        |         | Lunar Orbiter 1                      |
|             | Module                         |       | Lunar Module                   |         | lunar spacecraft                     |
| UF          | LEM (lunar module)             |       | Lunar Module 7                 |         | . lunar satellites                   |
| GS          | lunar spacecraft               |       | manned spacecraft              |         | Lunar Orbiter                        |
|             | . lunar landing modules        |       | . Lunar Module                 |         | Lunar Orbiter 1                      |
|             | Lunar Module                   |       | Lunar Module 7                 |         |                                      |
|             |                                |       |                                |         | Orbitar 2                            |
|             | Apollo lunar experiment module |       | modules                        |         | Orbiter 2                            |
|             | LSSM                           |       | . spacecraft modules           |         | Lunar Orbiter B                      |
|             | Lunar Module 5                 |       | landing modules                | GS      | artificial satellites                |
|             | Lunar Module 7                 |       | lunar landing modules          |         | . lunar satellites                   |
|             | manned spacecraft              |       | Lunar Module                   |         | Lunar Orbiter                        |
|             | . Lunar Module                 |       | Lunar Module 7                 |         | Lunar Orbiter 2                      |
|             | Apollo lunar experiment module |       |                                |         |                                      |
|             |                                |       | soft landing spacecraft        |         | lunar spacecraft                     |
|             | LSSM                           |       | . landing modules              |         | . lunar satellites                   |

|          | Lunar Orbiter<br>Lunar Orbiter 2            |         | spaceborne photography                              |                | Atlas Able 5 launch vehicle maneuverable spacecraft |
|----------|---|---------|---|----------------|---|
|          |   | lunar p | hotography  |                | Pioneer project                                     |
|          | Orbiter 3                                   | UF      |   |                | Ranger project                                      |
| UF<br>GS | Lunar Orbiter C artificial satellites       | GS      | imagery   |                | soft landing spacecraft Surveyor project            |
| GG       | . lunar satellites                          |         | . photography                                       |                | Surveyor project                                    |
|          | Lunar Orbiter                               | RT      | lunar photography astronomical photography          | lunar p        | rograms   |
|          | Lunar Orbiter 3                             | IXI     | black and white photography                         | GS             | programs  |
|          | lunar spacecraft                            |         | infrared photography                                |                | lunar programs                                      |
|          | . lunar satellites                          |         | moon  |                | Apollo project                                      |
|          | Lunar Orbiter<br>Lunar Orbiter 3            |         | Ranger project                                      | RT             | Surveyor project Lunar Prospector                   |
|          | Lunar Orbiter 3                             |         | spaceborne photography                              | 101            | Edital 1 100peoloi                                  |
|          | Orbiter 4                                   | luner n | rahaa   |                | Prospector  |
| UF       | Lunar Orbiter D                             | lunar p | Probes for exploring and reporting on               |                | ed February 1998)<br>artificial satellites          |
| GS       | artificial satellites                       |         | ns on or about the Moon.                            | GS             | . lunar satellites                                  |
|          | . lunar satellites Lunar Orbiter            | GS      | lunar spacecraft                                    |                | Lunar Prospector                                    |
|          | Lunar Orbiter 4                             |         | lunar probes  |                | lunar spacecraft                                    |
|          | lunar spacecraft                            |         | Lunik lunar probes                                  |                | lunar satellites                                    |
|          | lunar satellites                            |         | Lunik 2 lunar probe                                 |                | Lunar Prospector                                    |
|          | Lunar Orbiter                               |         | Lunik 3 lunar probe Lunik 9 lunar probe             | RT             | lunar composition                                   |
|          | Lunar Orbiter 4                             |         | Lunik 10 lunar probe                                |                | lunar exploration<br>lunar programs                 |
| Lunar (  | Orbiter 5                                   |         | Lunik 11 lunar probe                                |                | lunar resources                                     |
| UF       | Lunar Orbiter E                             |         | Lunik 12 lunar probe                                |                | lunar surface                                       |
| GS.      | artificial satellites                       |         | Lunik 13 lunar probe                                |                |   |
|          | . lunar satellites                          |         | Lunik 14 lunar probe                                |                | adar echoes   |
|          | Lunar Orbiter                               |         | Lunik 16 lunar probe<br>Lunik 17 lunar probe        | UF             | lunar scattering                                    |
|          | Lunar Orbiter 5                             |         | Lunik 19 lunar probe                                | GS             | echoes<br>. lunar echoes                            |
|          | lunar spacecraft                            |         | Lunik 20 lunar probe                                |                | lunar radar echoes                                  |
|          | . lunar satellites Lunar Orbiter            |         | Lunik 22 lunar probe                                |                | . radar echoes                                      |
|          | Lunar Orbiter 5                             |         | Ranger lunar probes                                 |                | lunar radar echoes                                  |
|          |   |         | Ranger 1 lunar probe                                | RT             | selenology  |
| Lunar C  | Orbiter A                                   |         | Ranger 2 lunar probe Ranger 3 lunar probe           |                | -4:-4:  |
| USE      | Lunar Orbiter 1                             |         | Ranger 4 lunar probe                                | iunar ra<br>GS | adiation extraterrestrial radiation                 |
|          |   |         | Ranger 5 lunar probe                                | 00             | . lunar radiation                                   |
|          | Orbiter B                                   |         | Ranger 6 lunar probe                                | RT o           | ∞ radiation   |
| USE      | Lunar Orbiter 2                             |         | Ranger 7 lunar probe                                |                | selenology  |
| Lunar C  | Orbiter C                                   |         | Ranger 8 lunar probe                                |                |   |
|          | Lunar Orbiter 3                             |         | Ranger 9 lunar probe                                |                | angefinding   |
|          |   |         | Ranger lunar landing vehicles Surveyor lunar probes | UF             | ( 0 0)  |
| Lunar C  | Orbiter D                                   |         | Surveyor 1 lunar probe                              | GS             | lunar laser ranging rangefinding                    |
| USE      | Lunar Orbiter 4                             |         | Surveyor 2 lunar probe                              | 00             | . lunar rangefinding                                |
| , ,      | N. 1.                                       |         | Surveyor 3 lunar probe                              | RT             | distance measuring equipment                        |
|          | Orbiter E                                   |         | Surveyor 4 lunar probe                              |                | laser range finders                                 |
| USE      | Lunar Orbiter 5                             |         | Surveyor 5 lunar probe                              |                | laser ranging                                       |
| lunar o  | rbits                                       |         | Surveyor 6 lunar probe Surveyor 7 lunar probe       |                | measuring instruments                               |
| UF       | evection                                    |         | unmanned spacecraft                                 |                | optical range finders range finders                 |
| GS       | orbits                                      |         | . space probes                                      |                | range inders  |
|          | . lunar orbits                              |         | . lunar probes                                      | lunar ra       | ays   |
| RT       | artificial satellites                       |         | Lunik lunar probes                                  | SN             | (EXCLUDES RADIATION)                                |
|          | circular orbits<br>circumlunar trajectories |         | Lunik 2 lunar probe                                 | RT             | meteorite craters                                   |
|          | cislunar space                              |         | Lunik 3 lunar probe Lunik 9 lunar probe             |                | moon<br>∘ rays                                      |
|          | command service modules                     |         | Lunik 10 lunar probe                                | Č              | selenography  |
|          | Earth orbits                                |         | Lunik 11 lunar probe                                |                | co.oog.apy  |
|          | Earth-Moon trajectories                     |         | Lunik 12 lunar probe                                | lunar re       | eceiving laboratory                                 |
|          | elliptical orbits                           |         | Lunik 13 lunar probe                                | GS             |   |
|          | equatorial orbits<br>Lissajous figures      |         | Lunik 14 lunar probe                                |                | . lunar laboratories                                |
|          | moon  |         | Lunik 16 lunar probe Lunik 17 lunar probe           |                | lunar receiving laboratory                          |
|          | orbital mechanics                           |         | Lunik 19 lunar probe                                | lunar re       | esources  |
|          | parking orbits                              |         | Lunik 20 lunar probe                                |                | ed August 1990)                                     |
|          | perilunes                                   |         | Lunik 22 lunar probe                                |                | resources   |
|          | polar orbits                                |         | Ranger lunar probes                                 |                | . extraterrestrial resources                        |
|          | satellite orbits                            |         | Ranger 1 lunar probe                                | D.T.           | lunar resources                                     |
|          | spacecraft orbits<br>transfer orbits        |         | Ranger 2 lunar probe                                | RT             | in situ resource utilization                        |
|          | transier orbits                             |         | Ranger 3 lunar probe Ranger 4 lunar probe           |                | lunar excavation equipment<br>lunar exploration     |
| lunar pe | erturbation                                 |         | Ranger 5 lunar probe                                |                | lunar mining  |
| USÉ      | lunar effects                               |         | Ranger 6 lunar probe                                |                | Lunar Prospector                                    |
|          |   |         | Ranger 7 lunar probe                                |                | lunar rocks   |
| lunar pl |   |         | Ranger 8 lunar probe                                |                | lunar soil  |
| RT       | moon  |         | Ranger 9 lunar probe                                |                | lunar surface                                       |
| 0        | ∘ phases<br>selenology                      |         | Ranger lunar landing vehicles                       | lunar =        | etroreflectors                                      |
|          | terminator lines                            |         | Surveyor lunar probes Surveyor 1 lunar probe        | GS             | lunar based equipment                               |
|          |   |         | Surveyor 1 Idrial probe                             | 00             | . lunar retroreflectors                             |
| lunar p  | hotographs                                  |         | Surveyor 3 lunar probe                              | RT             | Apollo Lunar Surface Experiments                    |
| GS       | photographs                                 |         | Surveyor 4 lunar probe                              |                | Package   |
|          | lunar photographs                           |         | Surveyor 5 lunar probe                              |                | Earth-Moon system                                   |
| RT       | astronomical photography                    |         | Surveyor 6 lunar probe                              |                | geodesy   |
|          | photography Ranger project                  | RT      | Surveyor 7 lunar probe Apollo project               |                | laser range finders retroreflection                 |
|          | ranger project                              | 17.1    | , though higher                                     |                | 101101011011111                                     |

U.S.S.R. space program selenology . Crew Exploration Vehicle Apollo 5 flight lunar shadow Apollo 6 flight lunar rocks GS shadows artificial satellites GS rocks lunar shadow Clementine spacecraft lunar rocks eclipses Halo Orbit space station . . kreep moon manned spacecraft RT gabbro selenology rendezvous spacecraft impact melts solar eclipses space capsules lunar maria ∞ spacecraft lunar mining lunar shelters Surveyor project lunar resources GS shelters unmanned spacecraft particle tracks . **lunar shelters** inflatable structures pre-Imbrian period lunar surface regolith life support systems GS satellite surfaces selenography lunar based equipment lunar surface selenology lunar construction equipment Clementine spacecraft space colonies Lunar Prospector lunar rotation survival lunar resources ∞ tunnels gyration selenology . rotation surface layers lunar soil surface properties . lunar rotation soils rotating bodies GS surfaces . lunar soil . lunar rotation . lunar dust center of gravity Lunar Surface Scientific Modules kreep USE LSSM selenology spin dynamics lunar mining lunar resources lunar surface vehicles minerals GS surface vehicles lunar roving vehicles moon . lunar surface vehicles LRV (vehicle) penetrometers . . lunar mobile laboratories GS surface vehicles . . lunar roving vehicles
. . Lunokhod lunar roving vehicles . selenology . lunar surface vehicles space weathering . . lunar roving vehicles . . manned lunar surface vehicles . . . Lunokhod lunar roving vehicles lunar spacecraft crawler tractors . . . manned lunar surface vehicles GS lunar spacecraft lunar based equipment . roving vehicles . Apollo spacecraft lunar construction equipment ... lunar roving vehicles . Apollo lunar experiment module lunar excavation equipment ... Lunokhod lunar roving vehicles . lunar landing modules ∞ surfaces . . . manned lunar surface vehicles . . Lunar Module ∞ vehicles RT research vehicles . . . Apollo lunar experiment module walking machines ∞ vehicles ...LSSM . . . Lunar Module 5 lunar temperature lunar satellites Lunar Module 7 GS temperature GS artificial satellites . lunar probes lunar temperature . . Lunik lunar probes . lunar satellites high temperature environments . . Explorer 18 satellite . . . Lunik 2 lunar probe low temperature environments Lunik 3 lunar probe . . Explorer 28 satellite moon . . IMP Lunik 9 lunar probe selenology . . Lunar Orbiter Lunik 10 lunar probe Lunik 11 lunar probe ... Lunar Orbiter 1 lunar tides . . . Lunar Orbiter 2 . . . Lunar Orbiter 3 Lunik 12 lunar probe The parts of tides caused solely by the tide producing force of the moon.

GS lunar effects . . . Lunik 13 lunar probe . . . Lunar Orbiter 4 . . . Lunar Orbiter 5 Lunik 14 lunar probe . . . Lunik 16 lunar probe . lunar tides Lunik 17 lunar probe . . Lunar Prospector tides ... Lunik 19 lunar probe . lunar tides . orbiting lunar stations Lunik 20 lunar probe atmospheric tides lunar spacecraft lunar satellites . Lunik 22 lunar probe Earth tides Explorer 18 satellite Ranger lunar probes moonquakes Ranger 1 lunar probe Explorer 28 satellite selenology ... IMP Ranger 2 lunar probe .. Lunar Orbiter Ranger 3 lunar probe lunar topography ... Lunar Orbiter 1 Ranger 4 lunar probe GS topography Ranger 5 lunar probe ... Lunar Orbiter 2 . lunar topography ... Lunar Orbiter 3 Ranger 6 lunar probe RT moon Ranger 7 lunar probe ... Lunar Orbiter 4 selenography . . . Lunar Orbiter 5 Ranger 8 lunar probe selenology . . Lunar Prospector Ranger 9 lunar probe surface properties Ranger lunar landing vehicles surface roughness . . orbiting lunar stations Surveyor lunar probes maneuverable spacecraft Surveyor 1 lunar probe **lunar trajectories** manned spacecraft Surveyor 2 lunar probe GS trajectories perilunes Surveyor 3 lunar probe . spacecraft trajectories polar orbits Surveyor 4 lunar probe ... lunar trajectories unmanned spacecraft Surveyor 5 lunar probe ... circumlunar trajectories Surveyor 6 lunar probe ... Earth-Moon trajectories lunar scattering . . . Surveyor 7 lunar probe ... moon-Earth trajectories USE diffuse radiation . lunar satellites parking orbits lunar radar echoes . . Explorer 18 satellite transfer orbits . . Explorer 28 satellite lunar seismographs lunation USE month GS measuring instruments . . Lunar Orbiter . vibration meters . . . Lunar Orbiter 1 . . seismographs Lunar Orbiter 2 luneberg lenses . . . lunar seismographs . . . Lunar Orbiter 3 radar corner reflectors . . . Lunar Orbiter 4 recording instruments

Lunar Orbiter 5

. . orbiting lunar stations

. . Lunar Prospector

. seismographs

RT lunar geology

. lunar seismographs

lung morphology

morphology

. lung morphology

GS

RT alveoli . . . . Lunik 11 lunar probe . . Lunik lunar probes pulmonary lesions Lunik 20 lunar probe respiratory diseases Lunik 12 lunar probe Soviet spacecraft GS lunar spacecraft . Lunik lunar probes . lunar probes ... Lunik 20 lunar probe lungs . . Lunik lunar probes unmanned spacecraft anatomy Lunik 12 lunar probe . space probes . respiratory system Soviet spacecraft . . lunar probes .. lungs . Lunik lunar probes . . . Lunik lunar probes . . alveoli Lunik 12 lunar probe . . . . Lunik 20 lunar probe RT alveolar air unmanned spacecraft atelectasis Lunik 22 lunar probe . space probes bronchi GS lunar spacecraft .. lunar probes pleurae . . . Lunik lunar probes . lunar probes pneumography .... Lunik 12 lunar probe . . Lunik lunar probes pneumothorax Lunik 22 lunar probe pulmonary circulation Lunik 13 lunar probe Soviet spacecraft pulmonary functions GS lunar spacecraft . Lunik lunar probes pulmonary lesions ... Lunik 22 lunar probe . lunar probes spirometers . . Lunik lunar probes unmanned spacecraft ... Lunik 13 lunar probe . space probes Lunik 2 lunar probe Soviet spacecraft . . lunar probes GS lunar spacecraft . Lunik lunar probes . . . Lunik lunar probes . lunar probes Lunik 13 lunar probe Lunik 22 lunar probe . . Lunik lunar probes RT U.S.S.R. space program unmanned spacecraft . . Lunik 2 lunar probe space probes Soviet spacecraft . . lunar probes Lunik lunar probes . Lunik lunar probes . . . Lunik lunar probes DEF Russian term for a space probe Lunik 2 lunar probe launched to the moon's vicinity or to impact on . . . . Lunik 13 lunar probe unmanned spacecraft the Moon. Used for LUNA lunar probes. . space probes LUNA lunar probes Lunik 14 lunar probe . . lunar probes lunar spacecraft lunar spacecraft . . . Lunik lunar probes . lunar probes . lunar probes . . . . Lunik 2 lunar probe . . Lunik lunar probes . . Lunik lunar probes . . Lunik 14 lunar probe ... Lunik 2 lunar probe Lunik 3 lunar probe Soviet spacecraft . . . Lunik 3 lunar probe GS lunar spacecraft . Lunik lunar probes . . . Lunik 9 lunar probe . Lunik 14 lunar probe . lunar probes Lunik 10 lunar probe . . Lunik lunar probes unmanned spacecraft Lunik 11 lunar probe Lunik 3 lunar probe Lunik 12 lunar probe . space probes Soviet spacecraft Lunik 13 lunar probe . . lunar probes . Lunik lunar probes Lunik 14 lunar probe . . . Lunik lunar probes . . Lunik 3 lunar probe .... Lunik 14 lunar probe Lunik 16 lunar probe unmanned spacecraft Lunik 17 lunar probe space probes Lunik 16 lunar probe . . . Lunik 19 lunar probe . . lunar probes lunar spacecraft . lunar probes . . Lunik 20 lunar probe . . Lunik 22 lunar probe .... Lunik 3 lunar probe . . Lunik lunar probes . . . Lunik 16 lunar probe Soviet spacecraft
. Lunik lunar probes Soviet spacecraft . . Lunik 2 lunar probe Lunik 9 lunar probe . Lunik lunar probes . . Lunik 3 lunar probe lunar spacecraft GS Lunik 16 lunar probe . . Lunik 9 lunar probe . lunar probes . . Lunik 10 lunar probe . . Lunik lunar probes unmanned spacecraft . . Lunik 9 lunar probe . space probes . . Lunik 11 lunar probe . . lunar probes . . Lunik 12 lunar probe Soviet spacecraft . . . Lunik lunar probes . . Lunik 13 lunar probe . Lunik lunar probes . Lunik 9 lunar probe . . . . Lunik 16 lunar probe . . Lunik 14 lunar probe . . Lunik 16 lunar probe unmanned spacecraft Lunik 17 lunar probe . . Lunik 17 lunar probe . space probes GS lunar spacecraft . . Lunik 19 lunar probe . . lunar probes . lunar probes . . Lunik 20 lunar probe ... Lunik lunar probes . . Lunik lunar probes . . Lunik 22 lunar probe . . . . Lunik 9 lunar probe Lunik 17 lunar probe unmanned spacecraft Soviet spacecraft . space probes Lunik 10 lunar probe . Lunik lunar probes . . lunar probes GS lunar spacecraft Lunik 17 lunar probe ... Lunik lunar probes . lunar probes unmanned spacecraft . Lunik 2 lunar probe . . Lunik lunar probes . space probes . . . . Lunik 3 lunar probe . . Lunik 10 lunar probe . . lunar probes Lunik 9 lunar probe Soviet spacecraft ... Lunik lunar probes . . . . Lunik 10 lunar probe . Lunik lunar probes .... Lunik 17 lunar probe . . . . Lunik 11 lunar probe . . Lunik 10 lunar probe . . . . Lunik 12 lunar probe unmanned spacecraft Lunik 19 lunar probe Lunik 13 lunar probe . space probes GS lunar spacecraft . . . . Lunik 14 lunar probe . . lunar probes . lunar probes Lunik 16 lunar probe . . . Lunik lunar probes . . Lunik lunar probes . . . . Lunik 17 lunar probe .... Lunik 10 lunar probe Lunik 19 lunar probe . . . . Lunik 19 lunar probe Soviet spacecraft . . . . Lunik 20 lunar probe Lunik 11 lunar probe . Lunik lunar probes . Lunik 22 lunar probe Lunokhod lunar roving vehicles . Lunik 19 lunar probe GS lunar spacecraft unmanned spacecraft lunar probes U.S.S.R. space program . . Lunik lunar probes . space probes Lunokhod lunar roving vehicles Lunik 11 lunar probe . . lunar probes . . . Lunik lunar probes Soviet spacecraft GS surface vehicles . Lunik lunar probes Lunik 19 lunar probe . lunar surface vehicles . . Lunik 11 lunar probe U.S.S.R. space program . . lunar roving vehicles . . . Lunokhod lunar roving vehicles unmanned spacecraft

Lunik 20 lunar probe

lunar spacecraft

. lunar probes

. roving vehicles

. . lunar roving vehicles

... Lunokhod lunar roving vehicles

. space probes

. . lunar probes

. . . Lunik lunar probes

Lunik lunar probes . . far ultraviolet radiation stars Marsokhod Mars roving vehicles . . Lyman alpha radiation U.S.S.R. space program atomic spectra lysergine ∞ vehicles extraterrestrial radiation GS bases (chemical) polarized electromagnetic radiation . alkaloids luster ∞ radiation . lysergine DFF The appearance characteristic of a ultraviolet astronomy nitrogen compounds . alkaloids specimen due to pronounced changes in intensity of light reflected from elemental areas of the Lyman beta radiation . lysergine specimen when the angle of illumination or view electromagnetic radiation organic compounds is changed. Used for dullness. . ultraviolet radiation . cyclic compounds dullness . . far ultraviolet radiation . . heterocyclic compounds RT brightness . . Lyman beta radiation . . . alkaloids .... lysergine finishes atomic spectra alare extraterrestrial radiation reflectance polarized electromagnetic radiation **Ivsimeters** ∞ radiation DEF Instruments for measuring the water lutetium ultraviolet astronomy percolating through soils and determining the GS chemical elements materials dissolved by the water. . nuclides Lyman spectra measuring instruments GS . lysimeters . . isotopes GS spectra . . . lutetium . radiation spectra ground water . . . . lutetium isotopes . . electromagnetic spectra moisture content . rare earth elements . . . line spectra percolation . . lutetium ... Lyman spectra soil moisture . . lutetium isotopes atomic spectra soils metals electronic spectra water balance . rare earth elements emission spectra water pollution . . lutetium H lines ... lutetium isotopes solar spectra lysine spectral theory GS acids lutetium 176 ultraviolet spectra . amino acids USE lutetium isotopes .. lysine lymph . carboxylic acids lutetium compounds body fluids ĞS . lysine GS rare earth compounds lymph organic compounds . lutetium compounds RT lymphatic system . amino acids RT ∞ chemical compounds lymphocytes . . lysine ∞ metal compounds . carboxylic acids lymph nodes . lysine lutetium isotopes (added February 2002) digesting lutetium 176 USE lymphatic system lysogenesis chemical elements . nuclides lymphatic system Lysithea . . isotopes (added February 2002) (added January 1996) . . . lutetium DEF A major component of the immune DEF A natural satellite of Jupiter orbiting at system consisting of a network of vessels, organs, and nodes that collect and filter lymph .... lutetium isotopes a mean distance of 11,720,000 kilometers. . rare earth elements celestial bodies . . lutetium from body tissues and return it to the blood-. natural satellites . . lutetium isotopes stream. . . Jupiter satellites lymph nodes UF metals Lysithea . rare earth elements lymphoid system Jupiter (planet) GS anatomy . . lutetium . immune systems ... lutetium isotopes lysogenesis . . lymphatic system disintegration . . . spleen Luxembourg lysine nations GS . . thymus gland Luxembourg antibodies lysosomes Europe bone marrow organelles GS Luxembourg space program immunology lysosomes lymph Luxembourg effect cells (biology) lymphocytes cytology RT ∞ effects metastasis enzyme activity ionospheric cross modulation lysozyme ionospheric propagation lymphocytes GS cells (biology) Luxembourg space program lysozyme blood cells (added March 1989) GS biopolymers . . leukocytes programs . proteins . lymphocytes . space programs . . enzymes blood cell count . . European space programs . . lysozyme immune systems ... Luxembourg space program organic compounds lymph Luxembourg . proteins lymphatic system . . enzymes Lvapunov functions . lyśozyme lymphoid system USE Liapunov functions RT body fluids (added February 2002) USF lymphatic system lysosomes Lybia USE Libya lyophilization LZEEBE satellite USE colloiding Earth Energy Budget Experiment Lyman alpha radiation Long Term Zonal Earth Energy DEF The radiation emitted by hydrogen at lyophils Experiment 1216 angstrom, first observed in the solar spec-USE colloids Zonal Earth Energy Budget trum by rocket borne spectrographs. Lyman

Lyra constellation

constellations

celestial bodies

celestial sphere

Lyra constellation

alpha is very important in the heating of the

upper atmosphere thus affecting other atmo-

GS electromagnetic radiation

. ultraviolet radiation

spheric phenomena.

Experiment

artificial satellites

. scientific satellites

.. LZEEBE satellite

GS

| M regio   |  | RT                       | Minuteman ICBM   | hypersonic shock  |
|-----------|--|--------------------------|--|---|
| GS        | regions  |                          |  | sound waves   |
|           | . M region   | M-57 er                  |  | supersonic flight   |
| RT        | geomagnetism   | GS                       | engines  | supersonic flow   |
|           | solar atmosphere   |                          | . rocket engines   | supersonics   |
|           | solar corpuscular radiation  |                          | solid propellant rocket engines  | Mark in auto autoriula  |
|           | solar wind   | RT                       | <b>M-57 engine</b><br>Minuteman ICBM   | Mach inertia principle  |
| M -4      |  | KI                       | Minuteman ICBM   | GS inertia  |
| M stars   |  | M-100 e                  | angine   | . inertia principle   |
| GS        | celestial bodies<br>. stars  |                          | engines  | Mach inertia principle  |
|           | . late stars   | 00                       | . rocket engines   | RT equations of motion moments of inertia   |
|           | cool stars   |                          | M-100 engine   | moments of menta  |
|           | <b>M stars</b>   |                          | · · ···· · · · · · · · · · · · · · · ·   | Mach number   |
|           | Van Biesbroeck star  | MA-2 ei                  | ngine  | DEF A number expressing the ratio of the  |
| RT        | asymptotic giant branch stars  | GS                       | engines  | speed of a body or a point on a body wi   |
| 111       | flare stars  |                          | . rocket engines   | respect to the surrounding air or other fluid,                                    |
|           | giant stars  |                          | booster rocket engines   | the speed of a flow, to the speed of sound in the                                 |
|           | main sequence stars  |                          | MA-2 engine  | medium; the speed represented by this number                                      |
|           | Mira variables   |                          | liquid propellant rocket engines   | Used for critical Mach number and Glauert c                                       |
|           | red giant stars  |                          | MA-2 engine  | efficient.  |
|           | S stars  | RT                       | Atlas ICBM   | UF critical Mach number   |
|           | subgiant stars   |                          | Vernier engines  | Glauert coefficient   |
|           | supergiant stars   | 144.0                    |  | GS dimensionless numbers  |
|           | symbiotic stars  | MA-2 m                   |  | . Mach number   |
|           | •  | USE                      | Mercury MA-2 flight  | ratios  |
| M wings   | S  | MA 2 o                   | agino  | . Mach number   |
| USE       | variable sweep wings   | MA-3 ei                  | engines  | RT acoustic velocity  |
|           |  | GS                       | rocket engines   | aerodynamics  |
| M-1 eng   |  |                          | booster rocket engines   | airspeed  |
| UF        | AJ-1000 engine   |                          | MA-3 engine  | shock waves   |
| GS        | engines  |                          | liquid propellant rocket engines   | superharmonics  |
|           | . rocket engines   |                          | MA-3 engine  | sweep angle   |
|           | booster rocket engines   | RT                       | Atlas ICBM   |   |
|           | M-1 engine   | 131                      | Vernier engines  | Mach reflection   |
|           | liquid propellant rocket engines   |                          | vorriior originioo   | DEF The reflection of a shock wave from   |
|           | hydrogen oxygen engines  | MA-3 fli                 | ght  | rigid wall in which the shock strength of the                                     |
|           | M-1 engine   | USE                      | Mercury MA-3 flight  | reflected wave and the angle of reflection bo                                     |
| RT        | Nova launch vehicles   |                          |  | have the smaller of the two values theoretica                                     |
|           | Saturn 1 launch vehicles   | MA-4 fli                 |  | possible.   |
|           | Saturn 1B launch vehicles  | USE                      | Mercury MA-4 flight  | GS reflection   |
| M_2 lifti | ing body   |                          |  | . wave reflection Mach reflection   |
|           | lifting bodies   | MA-5 eı                  |  | RT shock waves  |
| 00        | . lifting reentry vehicles   | GS                       | engines  | IXI SHOCK WAVES   |
|           | M-2 lifting body   |                          | . rocket engines   | machine aided indexing  |
|           | M-2F2 lifting body   |                          | booster rocket engines   | (added April 2000)  |
|           | reentry vehicles   |                          | MA-5 engine  | USE indexing (information science)  |
|           | . maneuverable reentry bodies  |                          | liquid propellant rocket engines   | 002 mao.mg (o.manon 00.0o)  |
|           | lifting reentry vehicles   | DT                       | MA-5 engine Atlas launch vehicles  | machine learning  |
|           | M-2 lifting body   | KI                       | Atlas SLV-3 launch vehicle   | (added May 1989)  |
|           | M-2F2 lifting body   |                          |  | UF learning machines  |
|           | 3 444,   |                          | Vernier engines  | RT adaptive control   |
| M-2F2 I   | ifting body  | MA-5 fli                 | aht  | artificial intelligence   |
|           | lifting bodies   |                          | Mercury MA-5 flight  | automata theory   |
|           | . lifting reentry vehicles   | 002                      | mercury mare ingin   | backpropagation (artificial intelligenc   |
|           | M-2 lifting body   | MA-8 fli                 | ght  | cybernetics   |
|           | M-2F2 lifting body   | USE                      | Mercury MA-8 flight  | data mining   |
|           | reentry vehicles   |                          |  | feedback control  |
|           | . maneuverable reentry bodies  | MA-9 fli                 |  | genetic algorithms  |
|           | lifting reentry vehicles   | USE                      | Mercury MA-9 flight  | ∞ machinery   |
|           | M-2 lifting body   |                          |  | membership functions  |
|           | M-2F2 lifting body   | maars                    | avatava  | self organizing systems   |
| M 050     | ifting body  | USE                      | craters  | teaching machines   |
|           | ifting body  | Mace m                   | issiles  | machine life  |
| GS        | lifting bodies . M-2F3 lifting body  |                          | missiles   | machine life USE service life   |
|           | . W-2F3 IIIIIII body   | 00                       | . surface to surface missiles  | USE Service life  |
| M-46 er   | ngine  |                          | Mace missiles  | machine oriented languages  |
|           | engines  | RT                       | booster rocket engines   | GS languages  |
| 00        | . rocket engines   |                          | J-33 engine  | . programming languages   |
|           | solid propellant rocket engines  |                          | solid propellant rocket engines  | machine oriented languages  |
|           | M-46 engine  |                          | turbojet engines   | RT ALGOL  |
| RT        | Falcon missile   |                          | , <b>3</b>   | Assembly language   |
|           |  | Mach c                   | ones   | autocoders  |
| M-55 er   | ngine  | DEF                      | The cone shaped shock waves theo-  | language programming  |
| GS        |  |                          | emanating from an infinitesimally small  | PL/1  |
|           | . rocket engines   |                          | moving at supersonic speed through a   |   |
|           | booster rocket engines   |                          | dium. It is the locus of the Mach lines.   | machine recognition   |
|           | · · · · · · · · · · · · · · · · · · ·  | The con                  | e shaped shock waves generated by a  | USE artificial intelligence   |
|           | M-55 engine  |                          | ointed body, as at the nose of a high  |   |
|           | M-55 engine solid propellant rocket engines  | sharp p                  |  |   |
|           | M-55 engine solid propellant rocket engines M-55 engine  | sharp p<br>speed a       | ircraft.   | machine storage   |
| RT        | M-55 engine solid propellant rocket engines  | sharp p<br>speed a       | ircraft.   | USE computer storage devices  |
|           | M-55 engine solid propellant rocket engines M-55 engine Minuteman ICBM   | sharp p<br>speed a       | ircraft.<br>cones<br>Mach cones  |   |
| M-56 er   | M-55 engine solid propellant rocket engines M-55 engine Minuteman ICBM   | sharp p<br>speed a       | ircraft. cones . Mach cones elastic waves  | USE computer storage devices core storage   |
|           | M-55 engine solid propellant rocket engines M-55 engine Minuteman ICBM  ngine engines  | sharp p<br>speed a       | ircraft. cones . Mach cones elastic waves . shock waves                                | USE computer storage devices core storage machine tools                           |
| M-56 er   | M-55 engine solid propellant rocket engines M-55 engine Minuteman ICBM  ngine engines . rocket engines                               | sharp p<br>speed a<br>GS | ircraft. cones . Mach cones elastic waves . shock waves Mach cones                     | USE computer storage devices core storage  machine tools GS tools                 |
| M-56 er   | M-55 engine solid propellant rocket engines M-55 engine Minuteman ICBM  ngine engines rocket engines solid propellant rocket engines | sharp p<br>speed a<br>GS | ircraft. cones . Mach cones elastic waves . shock waves . Mach cones acoustic velocity | USE computer storage devices core storage  machine tools GS tools . machine tools |
| M-56 er   | M-55 engine solid propellant rocket engines M-55 engine Minuteman ICBM  ngine engines . rocket engines                               | sharp p<br>speed a<br>GS | ircraft. cones . Mach cones elastic waves . shock waves Mach cones                     | USE computer storage devices core storage  machine tools GS tools                 |

|                           | grinding machines   | cutting  | statistical mechanics  |
|---------------------------|---|--|--|
|                           | lathes  | drilling   |  |
|                           | turret lathes   | finishes   | macular vision   |
|                           | milling machines  | forming techniques   | USE <b>vision</b>  |
|                           | shapers   | grinding (material removal)  | Madagaaag  |
| RT                        | cutters   | grooving   | Madagascar   |
|                           | dies  | knurling   | (added September 1993)<br>UF Malagasy Republic   |
|                           | drills  | laser cutting  | GS landforms   |
| 00                        | machinery   | machine tools  |  |
|                           | machining   | metal cutting  | . islands  |
|                           | mandrels  | metal working  | <b>Madagascar</b><br>nations   |
|                           | mechanical devices  | planing  |  |
|                           | mechanical engineering  | residual stress  | . <b>Madagascar</b><br>RT Africa   |
|                           | metal cutting   | setups   | Indian Ocean   |
|                           | numerical control   | surface finishing  | Indian Ocean   |
|                           | presses   | surface roughness  | Madden-Julian Oscillation  |
|                           | punches   | tooling  | (added September 2000)   |
|                           | saws  | V grooves  | DEF The most dominant and coherent com-  |
|                           | shears  | MACHO- (()   | ponent of the intraseasonal variability in the   |
|                           | taps  | MACHOs (astronomy)   | tropical atmosphere; characterized by a strong   |
|                           | ultrasonic cleaning   | (added November 1999)  | eastward propagation of atmospheric features,  |
|                           |   | USE massive compact halo objects   | with a typical period of 30-60 days. The Madden-   |
|                           | e translation   | Mach-Zehnder interferometers   | Julian Oscillation (MJO) may influence the tropi-  |
| GS                        | linguistics   | GS measuring instruments   | cal climate and its short-term variability by  |
|                           | . machine translation   | . interferometers  | modulating the timing and strength of El Nino -  |
|                           | translating   | Mach-Zehnder interferometers   | Southern Oscillation (ENSO) events, contribut-   |
| DT                        | . machine translation   | RT aerodynamics  | ing to the mean heat budget of the western   |
| RT                        | computer programs   | argon lasers   | Pacific, and regulating the annual cycle of the  |
|                           | information theory  | carbon dioxide lasers  | tropical western Pacific, especially the Austra-   |
|                           | language programming  | diffractometers  | lian summer monsoon.   |
|                           | languages   |  | UF MJO (meteorology)   |
|                           | natural language processing   | gas lasers   | GS oscillations  |
|                           |   | goniometers  | . Madden-Julian Oscillation  |
| machine                   |   | optical equipment  | variations   |
| USE                       | computer vision   | optical measuring instruments Schlieren photography  | . periodic variations  |
|                           |   | Schilleren photography   | intraseasonal variations   |
|                           | e-independent programs  | Macintosh PC   | Madden-Julian Oscillation  |
| GS                        | computer programs   | USE Macintosh personal computers   | RT air water interactions  |
|                           | machine-independent programs  | OSL Macintosii personal computers  | annual variations  |
| RT                        | computer programming  | Macintosh personal computers   | atmospheric circulation  |
|                           | computers   | (added September 1992)   | atmospheric models   |
|                           | multiprogramming  | UF Macintosh PC  | climatology  |
|                           |   | GS data processing equipment   | el Nino  |
| machin                    | -   | . computers  | monsoons   |
| SN                        | (USE OF A MORE SPECIFIC TERM IS   | digital computers  | Southern Oscillation   |
|                           | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)   | microcomputers   | tropical meteorology   |
| RT                        | boring machines   | personal computers   | zonal flow (meteorology)   |
|                           | computers   | Macintosh personal   | zonai non (moteorology)  |
|                           | drafting machines   | computers  | Maffei galaxies  |
|                           |   | compaters  | GS celestial bodies  |
|                           | endines   | RT computer graphics   |  |
|                           | engines fatique testing machines  | RT computer graphics   |  |
|                           | fatigue testing machines  | RT computer graphics computer programs   | . galaxies   |
|                           | fatigue testing machines grinding machines  | computer programs  |  |
|                           | fatigue testing machines<br>grinding machines<br>ground effect machines   | computer programs  MacLaurin series  | . galaxies<br><b>Maffei galaxies</b>   |
|                           | fatigue testing machines grinding machines  | computer programs  MacLaurin series  UF McLaurin series  | . galaxies<br><b>Maffei galaxies</b><br>RT nebulae<br>radio astronomy<br>radio galaxies  |
|                           | fatigue testing machines<br>grinding machines<br>ground effect machines<br>impact testing machines<br>levers  | computer programs  MacLaurin series  UF McLaurin series  GS analysis (mathematics)   | . galaxies<br><b>Maffei galaxies</b><br>RT nebulae<br>radio astronomy<br>radio galaxies  |
|                           | fatigue testing machines<br>grinding machines<br>ground effect machines<br>impact testing machines  | computer programs  MacLaurin series  UF McLaurin series  GS analysis (mathematics) . calculus  | . galaxies<br><b>Maffei galaxies</b><br>RT nebulae<br>radio astronomy  |
|                           | fatigue testing machines<br>grinding machines<br>ground effect machines<br>impact testing machines<br>levers<br>load testing machines   | computer programs  MacLaurin series  UF McLaurin series  GS analysis (mathematics) . calculus series (mathematics)   | . galaxies Maffei galaxies RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies   |
|                           | fatigue testing machines<br>grinding machines<br>ground effect machines<br>impact testing machines<br>levers<br>load testing machines<br>machine learning   | computer programs  MacLaurin series  UF McLaurin series  GS analysis (mathematics) . calculus series (mathematics) power series  | galaxies . Maffei galaxies  RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies magazines (supply chambers)  |
| ×.                        | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools   | computer programs  MacLaurin series  UF McLaurin series  GS analysis (mathematics) . calculus series (mathematics)   | galaxies . Maffei galaxies  RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers) RT ammunition   |
| ×                         | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools mechanical engineering  | computer programs  MacLaurin series  UF McLaurin series GS analysis (mathematics) . calculus . series (mathematics) power series Taylor series   | galaxies . Maffei galaxies RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers) RT ammunition photographic film  |
| œ                         | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools mechanical engineering mechanism  | computer programs  MacLaurin series  UF McLaurin series GS analysis (mathematics) . calculus . series (mathematics) power series Taylor series MacLaurin series  | galaxies . Maffei galaxies  RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers) RT ammunition   |
| œ                         | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools mechanical engineering mechanization milling machines positioning devices (machinery)   | computer programs  MacLaurin series  UF  | galaxies . Maffei galaxies  RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers)  RT ammunition photographic film spools   |
|                           | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools mechanical engineering mechanism mechanization milling machines positioning devices (machinery) refrigerating machinery   | computer programs  MacLaurin series  UF McLaurin series GS analysis (mathematics) . calculus . series (mathematics) . power series Taylor series . macLaurin series . real variables . series (mathematics)  | galaxies . Maffei galaxies  RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers)  RT ammunition photographic film spools  Magdalena-Cauca Valley (Colombia)  |
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|                           | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools mechanical engineering mechanization milling machines positioning devices (machinery) refrigerating machinery rotating electrical machines self focusing teaching machines tide powered machines  | Computer programs  MacLaurin series  UF  | galaxies . Maffei galaxies RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers) RT ammunition photographic film spools  Magdalena-Cauca Valley (Colombia) GS landforms . Magdalena-Cauca Valley (Colombia) valleys   |
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|                           | fatigue testing machines grinding machines ground effect machines impact testing machines levers load testing machines machine learning machine tools mechanical engineering mechanization milling machines positioning devices (machinery) refrigerating machinery rotating electrical machines self focusing teaching machines tide powered machines tools turbomachinery Turing machines   | Computer programs  MacLaurin series  UF  | galaxies . Maffei galaxies RT nebulae radio astronomy radio galaxies radio sources (astronomy) spiral galaxies  magazines (supply chambers) RT ammunition photographic film spools  Magdalena-Cauca Valley (Colombia) GS landforms . Magdalena-Cauca Valley (Colombia) valleys . Magdalena-Cauca Valley (Colombia) RT Colombia   |
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- . . NASA space programs
- ... Magellan project (NASA)
- ... Magellan project (NASA)
- . space programs
- . . NASA space programs
- . Magellan project (NASA)

Magellan spacecraft (NASA)

space exploration space missions

Venus orbiting imaging radar

(spacecraft) Venus probes Venus surface

#### Magellan spacecraft (NASA)

SN (DOES NOT INCLUDE THE MAGELLAN ULTRAVIOLET ASTRONOMY SATELLITE)

DEF A Venus probe incorporating Voyager and Galileo hardware designs equipped with a synthetic aperture radar system to acquire surface imagery, altimetric profiles, and surface radiothermal emissivities. Earth-based Doppler radio tracking of the spacecraft will be used to derive gravimetric data. (This term designates the spacecraft intrinsic and support hardware, instrumentation acquired data.) Used for Venus Radar Mapper.

Venus Radar Mapper interplanetary spacecraft GS

Venus probes

. Magellan spacecraft (NASA)

unmanned spacecraft

- . space probes
- . . Venus probes
- . Magellan spacecraft (NASA)

Magellan project (NASA)

radar imagery ∞ spacecraft

. synthetic aperture radar Venus orbiting imaging radar

(spacecraft) Venus surface

#### Magellan ultraviolet astronomy satellite

DEF This ESA mission will provide high resolution spectra of celestial sources down to sixteenth magnitude over the extreme ultraviolet wavelength range (between 50 and 150 nm). This mission is still in the study phase. Used for Magellan Mission (ESA).

Magellan Mission (ESA)

GS artificial satellites

- . ESA satellites
- . . Magellan ultraviolet astronomy satellite
- . scientific satellites
- . . astronomical satellites
- ... Magellan ultraviolet astronomy satellite

ESA spacecraft

- . ESA satellites
- .. Magellan ultraviolet astronomy satellite

observatories

- . astronomical observatories
- . . astronomical satellites
- ... Magellan ultraviolet astronomy satellite

extreme ultraviolet radiation far ultraviolet radiation spaceborne astronomy

#### Magellanic clouds

celestial bodies

- . galaxies
- . Magellanic clouds

RT ∞ clouds

nebulae

Orion nebula

star clusters

stars

supernova 1987A

#### magic tees

DEF Compound waveguides or coaxial tees with four arms which exhibit directional characteristics, when properly matched, so that a sig-nal entering one arm will be split between two of the other arms but not the third. A signal entering another arm is likewise split with half the energy entering one of the arms common to the other input but not its second arm and the other half of the energy entering the arm not used by the other input. Magic tees are used in radar as transmitter receiver duplexers.

RT duplexers

DEF Naturally occurring mobile rock materials, generated within the Earth and capable of intrusion and extrusion, from which igneous rocks are thought to have been derived by solidification and related processes.

geophysical fluids

magma

igneous rocks

lava

petrogenesis regolith

rhyolite

rocks

soils volcanic eruptions

#### magnesium

chemical elements

- . magnesium
- . . magnesium isotopes metals
- . magnesium
- . . magnesium isotopes

#### magnesium alloys

ĞS alloys

. light alloys

. magnesium alloys

aluminum-lithium alloys bismuth alloys

lithium alloys silicon alloys

#### magnesium bromides

GS halogen compounds bromine compounds

- . . bromides
- . magnesium bromides
- . halides
- . . bromides
- ... magnesium bromides
- . . metal halides
- . . magnesium bromides magnesium compounds
- . magnesium bromides

#### magnesium cells

DEF Primary cells with the negative electrodes made of magnesium or its alloy.

electric generators

- . direct power generators
  - . . primary batteries
  - . . . dry cells
- ... magnesium cells

electrochemical cells

- . electric batteries
- . . primary batteries
- ... dry cells
- ... magnesium cells

chemical auxiliary power units electrolytic polarization

#### magnesium chlorides

GS halogen compounds

- . chlorine compounds
- . . chlorides ... magnesium chlorides
- . . chlorides
- . magnesium chlorides

magnesium compounds

. magnesium chlorides

#### magnesium compounds

magnesium compounds

- brucite
- . chlorophylls
- cordierite
- dolomite (mineral) enstatite
- forsterite

- . magnesium bromides
- . magnesium chlorides
- . magnesium fluorides
- . magnesium germanates
- . magnesium germanides
- . magnesium oxides
- . . akermanite
- . . periclase
- . magnesium perchlorates
- . magnesium sulfates
- . . hexahedrite
- . magnesium titanates . merwinite
- . monticellite

. talc RT ∞ alkaline earth compounds

- ∞ chemical compounds
- ∞ metal compounds

## magnesium fluorides

GS halogen compounds

- . fluorine compounds
- . . fluorides
- . . . metal fluorides
- . magnesium fluorides
- . halides
- . . fluorides
- . . . metal fluorides
- . magnesium fluorides
- . . metal halides
- . . . metal fluorides
- ... magnesium fluorides magnesium compounds
- . magnesium fluorides

## magnesium germanates

germanium compounds

- . germanates
- . . magnesium germanates magnesium compounds magnesium germanates

- magnesium germanides germanium compounds
  - . germanides
  - . . magnesium germanides
  - magnesium compounds
  - magnesium germanides

# magnesium isotopes

- GS chemical elements
  - . magnesium
  - . . magnesium isotopes . nuclides
  - . . isotopes
  - . . magnesium isotopes metals
  - . magnesium . . magnesium isotopes

magnesium oxides

- GS chalcogenides
  - . oxides . . metal oxides
  - . . . alkaline earth oxides

magnesium compounds

- .... magnesium oxides
- . . . . . akermanite . . . . periclase
- . magnesium oxides
- . . akermanite . . periclase

magnesium perchlorates

- halogen compounds . chlorine compounds . . perchlorates
- . magnesium perchlorates magnesium compounds . magnesium perchlorates

## magnesium sulfates

GS magnesium compounds

- . magnesium sulfates
- . . hexahedrite
- sulfur compounds . sulfates
- . . magnesium sulfates
- . . . hexahedrite

RT bloedite

nonuniform magnetic fields

#### magnesium titanates

magnesium compounds magnesium titanates titanium compounds . titanates

. . magnesium titanates

Magnesyn (trademark) USE servomotors

#### magnet coils

electric coils GS

. magnetic coils

. . magnet coils

RT ∞ coils

electromagnetism electromagnets field coils inductors

magnetic circuits magnetic cores

magnetic energy storage

magnets

saturable reactors

solenoids

superconducting magnets

toroids transformers wire winding yokes

#### magnetars

(added January 2000)

Highly magnetized neutron stars believed to emit quasi-steady x-rays along with bursts of soft gamma rays- emissions powered by their magnetic energy. According to the mag-netar theory, these stars form in some fraction of all supernovae. When they are young (with ages less than about 10,000 years) magnetars may be observed as soft gamma repeaters (SGRs) or anomalous X-ray pulsars.

celestial bodies GS

. stars

. . magnetic stars

... magnetars . . neutron stars

. . magnetars

pulsars soft gamma repeaters supernova remnants x ray sources

magnetic absorption

USE electromagnetic absorption

## magnetic amplifiers

amplifiers GS

magnetic amplifiers magnetostatic amplifiers

nonlinearity power amplifiers . saturable reactors voltage amplifiers

## magnetic annular arc

RT ∞ arcs

current distribution plasma accelerators plasma control plasma propulsion

## magnetic annular shock tubes

MAST shock tubes shock wave generators

. shock tubes

. . magnetic annular shock tubes

#### magnetic anomalies

geomagnetic anomalies

GS anomalies

. magnetic anomalies . . geomagnetic hollow aeromagnetism RT geomagnetism

magnetic bearings

DEF Any application of the principle in which something capable of rotation and translation is held by the use of electromagnetic force without touching it. Applications range from small instruments to very large forces.

GS bearings

. magnetic bearings

levitation

magnetic suspension

#### magnetic charge density

scalar magnetic charge

GS divergence

. magnetic charge density

RT ∞ charging

constitutive equations Maxwell equation

#### magnetic circuits

GS circuits

magnetic circuits

flux (rate) lines of force magnet coils saturable reactors transformers

#### magnetic clouds

magnetic fields GS magnetic clouds

particles

. charged particles

. . plasma clouds

.. magnetic clouds

RT ∞ clouds

interplanetary magnetic fields

interplanetary medium

interstellar gas

interstellar magnetic fields magnetic field configurations

solar corona solar wind

stellar mass ejection

#### magnetic coils

electric coils

. magnetic coils

. . field coils . magnet coils

RT ∞ coils

electromagnetic hammers electromagnetism

flux pumps

#### magnetic compasses

Compasses whose operation depends DEF Compasses whose operation depends upon an element that senses the Earth's magnetic field, e.g., an instrument having a magnetic needle that turns freely on a pivot in a horizontal plane and that always swings to such a position that one end points to magnetic north.

GS measuring instruments
. indicating instruments

. . compasses

. magnetic compasses navigation aids

. navigation instruments

. . compasses

magnetic compasses

RT gyrocompasses solar compasses

## magnetic compression

The force exerted by a magnetic field on an electrically conducting fluid or on a plasma.

compressing confinement plasma control plasmas (physics)

#### magnetic control

RT attitude control ∞ control

magnetic damping

#### magnetic cooling

Keeping a substance cooled to about 0. 2 K by using a working substance (paramagnetic salt) in a cycle of processes between a high-temperature reservoir (liquid helium) at 1.2 K and a low temperature reservoir containing the substance to be cooled.

GS cooling

. magnetic cooling

absorption cooling

adiabatic demagnetization cooling

low temperature

low temperature environments

refrigerating

#### magnetic cores

cores

magnetic cores

bubble memory devices

electric coils ferrites ferromagnetism laminates magnet coils magnets parametrons saturable reactors toroids

## magnetic damping

transformers

(added January 2004)
DEF Mechanical, electromagnetic, or plasmadynamic damping induced by an applied magnetic field.

GS damping

. magnetic damping

magnetic properties . magnetic effects

magnetic damping

Landau damping magnetic control vibration damping

## magnetic diffusion

(DIFFUSION VIA A MAGNETIC FIELD)

ĞS diffusion

magnetic diffusion

field strength

## magnetic dipoles

RT ∞ dipoles

electric dipoles

∞ physical properties

poles

# magnetic disks

GS computer components

. computer storage devices . . magnetic disks

magnetic storage

. magnetic disks

core storage disk operating system (DOS)

∞ disks

memory (computers) peripheral equipment (computers) video disks

## magnetic dispersion

RT ∞ dispersion electromagnetic scattering

ferromagnetism magnetization wave scattering

## magnetic disturbances

## GS magnetic disturbances

. magnetic storms . . polar substorms

auroras

Birkeland currents

∞ disturbances geomagnetism KP index nonadiabatic theory solar activity

solar activity effects

#### magnetic domains

solar flares solar planetary interactions solar terrestrial interactions solar wind velocity space weather starspots stellar activity sudden ionospheric disturbances sudden storm commencements

#### magnetic domains

Small areas on the surface of the body of thin films of a magnetic medium, each of which maintains a descrete magnetic field orientation relative to the others around it.

. magnetic domains

bubble memory devices bubble technique dipole moments domain wall lines of force magnetic force microscopy

## magnetic drums

DEF Memory devices used in computers; rotating cylinders on which information may be stored as magnetically polarized areas, usually along several parallel tracks around the periphery. GS

computer components

- . computer storage devices
- magnetic drums
  - magnetic storage
  - . magnetic drums

RT core storage

∞ drums

## magnetic effects

geomagnetic effects magnetic properties GS

. magnetic effects
. magnetic damping
. magnetic rigidity

RT ∞ effects

flux transfer events geomagnetism magnetoactivity plasma compression quantum Hall effect temperature effects

# magnetic energy storage

energy storage
. magnetic energy storage
energy technology
magnet coils magnetic fields superconducting magnets

## magnetic equator

That line on the surface of the Earth connecting all points at which the magnetic dip is zero. Used for geomagnetic equator.

geomagnetic equator

GS equators

. magnetic equator

geomagnetism

∞ inclination

#### magnetic field configurations

poloidal flux

spheromaks

## magnetic field configurations

. magnetic islands astrophysics divertors (fusion reactors) electromagnetic fields flux transfer events force-free magnetic fields helical windings magnetic clouds magnetic field reconnection plasma compression plasma control plasma physics polar cusps

stellar magnetic fields

magnetic field intensity USE magnetic flux

#### magnetic field inversions

ĞS inversions

. magnetic field inversions

electromagnetic fields electromagnetism electromechanics field theory (physics)

#### magnetic field reconnection

magnetic field reconnection

DEF A change in topology of the magnetic field configuration resulting from a localized breakdown of the requirement for 'connection' of fluid elements at one time on a common magnetic field line. Alternatively, it occurs when an electric field exists with a component parallel to a locally two-dimensional X-type magnetic neutral line which is equivalent to a breakdown in connection.

GS magnetic properties

. magnetoactivity

#### . magnetic field reconnection

field aligned currents RT

flux transfer events interplanetary magnetic fields

magnetic field configurations magnetic fields

magnetic flux magnetic islands

magnetosphere-ionosphere coupling

solar magnetic field space plasmas

#### magnetic fields

DEF Regions of space wherein magnetic dipoles would experience a magnetic force or torque; often represented as the geometric array of the imaginary magnetic lines of force that exist in relation to magnetic poles. Magnetic fields are also considered to be the regions of influence of magnetized bodies or electric currents

#### magnetic fields

- biomagnetism
- force-free magnetic fields
- geomagnetism
- interplanetary magnetic fields
- interstellar magnetic fields
- lunar magnetic fields
- magnetic clouds . magnetostatic fields
- nonuniform magnetic fields
   paleomagnetism
- planetary magnetic fields
  stellar magnetic fields

. solar magnetic field trapped magnetic fields Bernstein energy principle

beta factor Biot-Savart law conjugate points constitutive equations crossed fields

demagnetization Earth magnetosphere

electric fields

electromagnetic acceleration electromagnetic fields electromagnetism electromechanics

electron-hole drops ferromagnetic resonance field emission

field strength field theory (physics)

fields

flux pumps flux transfer events geomagnetic tail Helios satellites Intasat satellite

∞ Kerr effects lines of force Lorentz force

magnetic energy storage magnetic field reconnection magnetic force microscopy

magnetization magnetoactivity magneto-optics

magnetoplasmadynamics magnetoresistivity

magnetostatics magnets multipolar fields nonthermal radiation particle acceleration pinch effect polar cusps

polarity pulsar magnetospheres racetracks (particle accelerators) radiation belts

screw pinch Scylla

self consistent fields square wells

stellar magnetospheres

Suhl effect Zeeman effect

# magnetic films

GS coatings

magnetic films

RT ∞ films

#### magnetic flux

DEF The magnetic force exerted on an imaginary unit magnetic pole placed at any specified point of space. It is a vector quantity. specified point of space. It is a vector quantity. Its direction is taken as the direction toward which a north magnetic pole would tend to move under the influence of the field. If the force is measured in dynes and the unit pole is a cgs unit pole, the field intensity is given in oersteds. Used for magnetic field intensity.

UF magnetic field intensity
GS field strength
. magnetic flux
rates (per time)

rates (per time) . flux (rate)

## . magnetic flux

beta factor

constitutive equations current sheets flux pinning

flux quantization flux transfer events

force-free magnetic fields

lines of force magnetic field reconnection pinning

#### magnetic force microscopy

(added June 2004)

DEF A form of microscopy designed to study magnetic materials on a nanometer scale by detecting magnetic forces or force gradients exerted on a probing tip that is moved over a sample surface.

MFM (microscopy)

GS microscopy

## magnetic force microscopy

imaging techniques magnetic domains magnetic fields magnetic materials magnetic measurement magnetic probes magnetic resonance

#### magnetic forming

forming techniques

. magnetic forming metal working
. magnetic forming

RT bulging

cold working deep drawing electromagnetic hammers metal drawing

## magnetic induction

electromagnetic deduction magnetic properties . magnetic induction

RT coupling coefficients flux (rate) inductance ∞ induction induction heating

magnetic induction probes USE magnetic probes

## magnetic islands

(added October 1994)

magnetic field configurations
. magnetic islands

coalescing collisionless plasmas current sheets geomagnetic tail

magnetic field reconnection

#### magnetic lenses

quadrupole lenses

GS lenses

. magnetic lenses cathode ray tubes electron beams RT

electron guns electron microscopes electron microscopy

plasma guns plasma jets

scanning electron microscopy transmission electron microscopy wire grid lenses

# magnetic levitation vehicles GS surface vehicles

. magnetic levitation vehicles

levitation lift devices mass drivers rail transportation

suspension systems (vehicles)

∞ vehicles

#### magnetic materials

magnetic metals

magnetic materials

- . ferrimagnetic materials
- . ferromagnetic materials
- . ferrofluids
- . . ferromagnetic films
- . . magnetite

. Permalloys (trademark)

Kondo effect

magnetic force microscopy magnetorheological fluids magnets

∞ materials

permanent magnets

#### magnetic measurement

(MEASUREMENT OF MAGNETIC PROPERTIES, QUANTITIES OR CONDITIONS) fluxmeters

magnetometry

electromagnetic measurement magnetic force microscopy

magnetometers ∞ materials tests

∞ measurement squid (detectors)

magnetic memories

USE magnetic storage

magnetic metals

UŠE magnetic materials metals

## magnetic mirrors

DEF Magnetic fields so arranged that they will theoretically confine a hot plasma.

mirrors

## . magnetic mirrors

. tandem mirrors

lines of force mirror fusion mirror point

nonuniform magnetic fields

nuclear fusion

plasma control . plasma equilibrium Q devices Scylla spheromaks

#### magnetic moments

The quantities obtained by multiplying the distances between two magnetic poles by the average strength of the poles. Measures of the magnetic flux set up by the gyration of an electric field in a magnetic field. Moments are negative, indicating they are diagramatic, and equal to the energy of rotation divided by the magnetic field. In atomic and nuclear physics, moments, measured in Bohr magnetrons, are associated with the intrinsic spin of the particle and with the orbital motion of the particle in a system.

GS

magnetic properties . magnetic moments

moments

. dipole moments

. . magnetic moments
Bohr magneton RT electric moments

Langevin formula

quenching (atomic physics)

#### magnetic monopoles

monopoles GS

magnetic monopoles

particles

. elementary particles . magnetic monopoles

RT quantum theory

#### magnetic nozzles

(added September 1999)

DEF Nozzle devices used in some nuclear and plasma propulsion systems that utilize magnetic fields to direct and accelerate plasma flows, thereby providing thrust for propulsion.

coaxial plasma accelerators

electric rocket engines

∞ nozzles

nuclear propulsion

nuclear rocket engines plasma acceleration

plasma engines

plasma propulsion

rocket nozzles

spacecraft propulsion

VASIMR (propulsion system)

#### magnetic permeability

magnetic susceptibility

susceptibility (magnetism)

GS magnetic properties

magnetic permeability

Curie-Weiss law dielectric permeability hysteresis

neel temperature

reluctance

#### magnetic pistons

pistons

magnetic pistons

hypersonic wind tunnels hypervelocity wind tunnels shock tubes

shock wave generators

#### magnetic poles

DEF Either of the two places on the surface of the Earth where the magnetic dip is 90 deg., that in the Northern Hemisphere (at, approximately, latitude 73 deg. 8 N, longitude 101 deg. W in 1955) being designated north magnetic pole, and that in the Southern Hemisphere (at, approximately, latitude, 68 deg. S, longitude 144 deg. E in 1955) being designated south magnetic pole. Either of those two points of a magnet where the magnetic force is the greatest. In magnetic theory, a fictitious entity analogous to a unit charge of electrostatic theory. In nature, only dipoles, not isolate magnetic poles exist.

RT auroral zones

∞ dipoles

geomagnetism polarity ∞ poles

#### magnetic probes

magnetic induction probes

measuring instruments

. magnetic probes

magnetic force microscopy magnetometers resonance probes space probes

#### magnetic properties

#### GS magnetic properties

- . antiferromagnetism
- . biomagnetism
- . Curie temperature
- . diamagnetism
- . ferrimagnetism
- . ferromagnetism . geomagnetism . gyromagnetism

- . gyromagnetism
  . gyrofrequency
  . magnetic effects
  . magnetic damping
  . magnetic rigidity
  . magnetic induction
  . magnetic moments
  . magnetic nermeability . magnetic permeability
- . magnetic relaxation
- . . spin-lattice relaxation
- . magnetic suspension
- . magnetoacoustics
- . magnetoactivity . . flux transfer events
- . . magnetic field reconnection
- . . magnetoresistivity
- . magnetostriction
- . paleomagnetism
- . paramagnetism . polarization characteristics
- . reluctance
- . remanence
- . thermomagnetic effects

coercivity Curie-Weiss law

dipole moments

eddy currents

electrical properties electromagnetic properties

electromagnetism

ferritic stainless steels

field strength

hysteresis

inductance KP index

lines of force

magnetization

magnetomechanics (physics)

magnets

Maxwell equation

 $\infty$  physical properties polarization (spin alignment)

∞ properties

∞ solid state physics spin glass

# magnetic pumping

electron cyclotron heating induction heating ion cyclotron radiation kinetic heating plasma heating

## magnetic recording

magnetic tape recorders

recording

∞ pumping

magnetic recording bubble memory devices

data recording recording heads

## magnetic relaxation

magnetic properties
. magnetic relaxation

. . spin-lattice relaxation

RT relaxation (mechanics)

#### magnetic resonance

GS resonance

. magnetic resonance

. . ferromagnetic resonance

. . nuclear magnetic resonance

. proton magnetic resonance

. . . proton resonance

. paramagnetic resonance

. . electron paramagnetic resonance

magnetic force microscopy

magnetic resonance spectroscopy

nuclear spin Overhauser effect

spectrum analysis

## magnetic resonance spectroscopy

(added August 2004)

Spectroscopic method of measuring the magnetic moment of elementary particles such as atomic nuclei, protons or electrons. It is employed in clinical applications such as NMR Tomography ( magnetic resonance imaging).

spectroscopy

. magnetic spectroscopy

magnetic resonance

spectroscopy

chemical analysis magnetic resonance

#### magnetic rigidity

gyrointeraction

magnetic properties . magnetic effects GS

. . magnetic rigidity electron trajectories ionospheric drift particle mass particle motion

∞ rigidity

#### magnetic sails

(added May 1995)
DEF Devices that provide low thrust spacecraft propulsion by deflecting plamsa winds with a superconducting cable-generated magnetic field.

UF field sails magsails

GS propulsion

. electric propulsion

. . electromagnetic propulsion

. . magnetic sails

. low thrust propulsion

. . electromagnetic propulsion

... magnetic sails

. spacecraft propulsion

. . electromagnetic propulsion . . magnetic sails

## magnetic sails

interplanetary flight

interstellar travel

ion propulsion

manned Mars missions

particle beams

plasma propulsion solar wind

## magnetic shielding

GS shielding

magnetic shielding

electromagnetic shielding magnetometers radiation shielding

#### magnetic signals

nuclear magnetic resonance signal mixing

∞ signals

#### magnetic signatures

magnetograms

GS signatures

. magnetic signatures

RT pattern registration

#### magnetic spectroscopy

GS spectroscopy

. magnetic spectroscopy

. magnetic resonance spectroscopy

Alpha Magnetic Spectrometer gas spectroscopy

mass spectroscopy spectroscopic analysis vacuum spectroscopy

magnetic stars

GS celestial bodies

. stars

.. magnetic stars

. . magnetars peculiar stars

magnetic storage

DEF In computer terminology, any device which makes use of the magnetic properties of materials for the storage of information. Used for magnetic memories.

magnetic memories

#### GS magnetic storage

. bubble memory devices

core storage

. magnetic disks

. magnetic drums

computer storage devices

data recording data storage

∞ drums

parametrons

storage

virtual memory systems

#### magnetic storms

DEF Worldwide disturbances of the Earth's magnetic field. Used for geomagnetic storms and magnetic substorms.

geomagnetic storms

magnetic substorms

magnetic disturbances

magnetic storms

. . polar substorms storms

## . magnetic storms

. . polar substorms Birkeland currents

dawn chorus

Forbush decreases

IMAGE satellite

noise storms solar storms

solar terrestrial interactions

space weather

spread F

sudden ionospheric disturbances sudden storm commencements

#### magnetic substorms

USE magnetic storms

magnetic surveys

UF magnetotelluric profiling

RT aeromagnetism geomagnetism

magnetic susceptibility

USE magnetic permeability

#### magnetic suspension

GS magnetic properties magnetic suspension

suspending (hanging)

magnetic suspension

annular suspension and pointing system levitation melting magnetic bearings

## magnetic switching

GS switching

. magnetic switching

antiferromagnetism beam switching bubble memory devices saturable reactors

magnetic tape recorders

USE magnetic recording tape recorders

#### magnetic tape transports

GS mechanical drives

magnetic tape transports

tape recorders

magnetic tapes
DEF Ribbons of paper, metal, or plastic, coated or impregnated with magnetic material on which information may be stored in the form of magnetically polarized areas.

#### magnetic tapes

computer compatible tapes

audio tapes

peripheral equipment (computers)

plastic tapes playbacks punched tapes readers recording heads

reels

tape recorders ∞ tapes

video tapes

#### magnetic transducers

GS transducers

magnetic transducers

electromagnetic measurement electronic transducers microphones

#### magnetic variations

Changes in magnetic fields in time or space.

GS variations

## . magnetic variations

. . geomagnetic pulsations

. . . geomagnetic micropulsations

. . nocturnal variations

aeromagnetism

annual variations diurnal variations

ionospheric disturbances

KP index

Scvlla traveling ionospheric disturbances

# magnetically trapped particles GS particles

. charged particles

.. magnetically trapped particles

... radiation belts

. . . . artificial radiation belts

. . . . inner radiation belt

. . . . outer radiation belt . . . proton belts

. trapped particles ... magnetically trapped particles

. . . radiation belts

... artificial radiation belts

. . . . inner radiation belt ... outer radiation belt

... proton belts

RT plasma control trapped magnetic fields

# magnetite

GS chalcogenides

. oxides

. . metal oxides

. . . iron oxides ... magnetite

iron compounds . iron oxides

. . magnetite magnetic materials

. ferromagnetic materials . . magnetite

minerals

. magnetite

magnetization remagnetization UF

RT coercivity

magnetic dispersion magnetic fields magnetic properties magnetomechanics (physics) magnets magnons ∞ polarization polarization (charge separation) polarization (spin alignment) magnetoacoustic waves GS elastic waves . magnetoelastic waves . magnetoacoustic waves magnetohydrodynamic waves plasma waves magnetoacoustics GS acoustics magnetoacoustics magnetic properties magnetoacoustics magnetoactivity magnetic properties magnetoactivity . . flux transfer events . . magnetic field reconnection . magnetoresistivity magnetic effects magnetic fields magnetocardiography bioengineering biometrics . . cardiography . . magnetocardiography bioinstrumentation magnetoelastic vibrations magnetoelastic waves magnetoelastic waves magnetoelastic vibrations GS elastic waves . magnetoelastic waves . magnetoacoustic waves electrostatic waves magnetosonic resonance magnetospheric instability magnetostriction plasma waves sound waves ultrasonic radiation magnetoelasticity magnetostriction magnetoelectric media dielectrics RT magnetoionics Maxwell equation mechanical drives magnetogasdynamics USE magnetohydrodynamics magnetograms USE magnetic signatures magnetohydrodynamic acceleration plasma acceleration magnetohydrodynamic flow hydromagnetic flow plasma flow GS fluid flow magnetohydrodynamic flow RT compressible flow core flow gas flow geomagnetic hollow

magnetohydrodynamic simulation

magnetohydrodynamics

plasma turbulence

plasmas (physics) reverse field pinch

plasma flux measurement

Hartmann flow Kelvin-Helmholtz instability line current

RT RT

screw pinch solar wind velocity transverse waves two fluid models

#### magnetohydrodynamic generators

electric generators direct power generators

.. magnetohydrodynamic generators

RT fuel cells ∞ generators

magnetohydrodynamics plasma accelerators plasma generators thermionic converters thermoelectric generators

#### magnetohydrodynamic shear heating

GS heating

. magnetohydrodynamic shear heating

plasma heating plasma sheaths shock heating viscous flow

#### magnetohydrodynamic simulation

(added June 2005)

Simulation of the interaction that exists between a magnetic field and an electrically conducting fluid.

simulation

magnetohydrodynamic simulation

magnetohydrodynamic flow magnetohydrodynamics plasma turbulence turbulence models

#### magnetohydrodynamic stability

hydromagnetic stability plasma instability plasma stability

dynamic characteristics . dynamic stability

. . motion stability . . . flow stability

## .... magnetohydrodynamic

stability

. . Weibel instability

. flow characteristics

. . flow stability

... magnetohydrodynamic stability

. Weibel instability stability

. dynamic stability . . motion stability . . . flow stability

.... magnetohydrodynamic stability

. . . . Weibel instability ballooning modes

beta factor elastic waves elliptical plasmas

force-free magnetic fields helical flow

Kelvin-Helmholtz instability Langmuir turbulence

magnetohydrodynamics magnetohydrostatics nonequilibrium plasmas nonuniform plasmas plasma conductivity plasma cooling

plasma decay plasma drift plasma equilibrium

plasma lifetime plasma loss plasma pinch plasma potentials

plasma slabs

plasma temperature plasma turbulence plasmas (physics) plasmons

space plasmas strongly coupled plasmas thermal instability

zeta pinch

## magnetohydrodynamic turbulence

turbulence

magnetohydrodynamic turbulence

. . plasma turbulence . Langmuir turbulence homogeneous turbulence isotropic turbulence

#### magnetohydrodynamic waves

magnetonydrodynamic waves

DEF Low frequency waves in an electrically highly conducting fluid (such as a plasma) permeated by static magnetic fields. The restoring forces of the waves are, in general, the combination of a magnetic tensile stress along the magnetic field lines and the comprehensive stress between the field lines and the fluid pressure. Used for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves bydromagnetic fluid for Alfven waves for the fluid for Alfven waves for the fluid for Alfven waves for the fluid for the fluid for the fluid for the fluid f pressure. Used for Alfven waves, hydromagnetic waves, and plasma sound waves.

Alfven waves hydromagnetic waves plasma sound waves elastic waves

#### . magnetohydrodynamic waves

. . plasma waves

. . electrostatic waves magnetoacoustic waves magnetohydrodynamics normal shock waves oblique shock waves shock waves wave-particle interactions

#### magnetohydrodynamics

The study of the interaction that exists between a magnetic field and an electrically conducting fluid. Used for geometrical hydromagnetics, hydromagnetics, hydromagnetism, and magnetogasdynamics.

geometrical hydromagnetics hydromagnetics hydromagnetism magnetogasdynamics fluid mechanics

. fluid dynamics

. . hydrodynamics

. . . magnetohydrodynamics . hydromechanics

. hydrodynamics

## . . magnetohydrodynamics

alpha plasma devices conducting fluids ∞ dynamics
 electric arcs electrohydrodynamics

gas dynamics gas transport Hall accelerators Hall effect Hartmann flow Hartmann number

ionization magnetohydrodynamic flow

magnetohydrodynamic generators magnetohydrodynamic simulation magnetohydrodynamic stability magnetohydrodynamic waves magnetohydrostatics

magnetoionics magnetosonic resonance pinch effect plasma currents

plasma dynamics plasma physics plasma propulsion plasmas (physics) space charge space mechanics space plasmas stellar activity stellarators thermonuclear reactions uranium plasmas

wave-particle interactions

#### magnetohydrostatics

fluid mechanics . hydromechanics . . hydrostatics

... magnetohydrostatics statics

. hydrostatics

magnetohydrostatics

magnetohydrodynamic stability magnetohydrodynamics magnetoionics plasma physics static stability

magnetoionic plasma

USE plasmas (physics)

#### magnetoionics

electromagnetic wave transmission elliptical polarization geomagnetism gyrofrequency ionospheric propagation magnetoelectric media magnetohydrodynamics magnetohydrostatics plasmas (physics) radio transmission

#### magnetomechanics (physics)

Study of the effects which the magnetization of a material and its strain have on each

magnetic properties magnetization ∞ physics

#### magnetometers

DEF Instruments used in the study of geomagnetism for measuring a magnetic element. Used for Gaussmeters.

Gaussmeters

GS measuring instruments

. magnetometers

. variometers

electrical measurement field intensity meters

geomagnetism
gradiometers
magnetic measurement
magnetic probes
magnetic shielding
MagSat 1 satellite
MagSat A satellite
MagSat B satellite

MagSat B satellite

MagSat satellites

nuclear magnetic resonance

proton masers

magnetometry

USE magnetic measurement

#### magneto-optics

acousto-optics electromagnetic radiation electro-optics Faraday effect Kerr magnetooptical effect light modulators magnetic fields optical switching ∞ optics polarization (waves)

polarized electromagnetic radiation

#### magnetopause

GS environments

. Earth magnetosphere

. magnetopause

Chapman-Ferraro problem

flux transfer events IMAGE satellite magnetosheath magnetospheric instability planetary magnetotails polar cusps satellite atmospheres

# magnetoplasmadynamic thrusters

(added April 2001)

solar wind

DEF Electromagnetic rocket engines that produce thrust via the Lorentz body force ejecting a high velocity plasma stream. The thrusters

can be operated in either steady-state or pulsed mode, and typically have an axisymmetric geometry (annular anode surrounding a central cathode).

UF LFA thrusters

Lorentz force accelerator thrusters

MPD thrusters

engines

. rocket engines . . electric rocket engines

. . . plasma engines

. . . . magnetoplasmadynamic thrusters

arc jet engines

electromagnetic propulsion magnetoplasmadynamics plasma accelerators plasma propulsion spacecraft propulsion

 $\infty \, thrustors$ 

magnetoplasmadynamics
DEF The study of the dynamics of generating electricity by passing a beam of ionized gas through a magnetic field.

RT magnetic fields

magnetoplasmadynamic thrusters

plasma density plasma propulsion rocket engines

spacecraft propulsion

#### magnetoplasmas

USE plasmas (physics)

#### magnetoresistivity

electrical properties . electrical resistivity

. magnetoresistivity

electromagnetic properties

. magnetoresistivity

magnetic properties . magnetoactivity

. magnetoresistivity

transport properties

. electrical resistivity

. . magnetoresistivity

RT ∞ conductivity

electromagnetism Fermi surfaces

Hall resistance

magnetic fields

reluctance

∞ resistance

## magnetorheological fluids

(added September 2000)

DEF Fluids comprised of magnetically soft particles dispersed in liquids and possessing rheological properties that can be rapidly and reversibly altered by the application of a magnetic field

electrorheological fluids

ferrofluids

ferromagnetic materials

∞ fluids

magnetic materials

rheology

smart materials

vibration damping

#### magnetosheath

GS environments

. Earth magnetosphere

. magnetosheath

bow waves Earth environment

geomagnetism magnetopause

plasma sheaths

shock fronts solar planetary interactions solar terrestrial interactions

solar wind

#### magnetosonic resonance

GS resonance

magnetosonic resonance

RT magnetoelastic waves magnetohydrodynamics

#### magnetosphere-ionosphere coupling

ionosphere-magnetosphere coupling coupling

. magnetosphere-ionosphere coupling

aeronomy

atmospheric physics coupled modes Earth ionosphere

Earth magnetosphere electromagnetic coupling

flux transfer events

∞ ionospheres magnetic field reconnection magnetospheric instability planetary ionospheres

#### ∞ magnetospheres

SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED—CONSULT THE TERMS
LISTED BELOW)
DEF Region surrounding a celestial body
where its magnetic field controls the motions of
charged particles.

cometary magnetospheres Earth magnetosphere planetary magnetospheres pulsar magnetospheres stellar magnetospheres

#### magnetospheric electron density

GS density (number/volume)

. particle density (concentration)
. electron density (concentration)

... magnetospheric electron

density

RT atmospheric density ionospheric electron density

plasma density

#### magnetospheric instability

stability ĞS

#### magnetospheric instability

geomagnetic pulsations magnetoelastic waves

magnetopause magnetosphere-ionosphere coupling

magnetospheric ion density
GS density (number/volume)
. particle density (concentration)

. . ion density (concentration)
. . . magnetospheric ion density

. . . . magnetospheric proton density atmospheric density ionospheric ion density plasma density positive ions

## magnetospheric proton density

GS density (number/volume)

. particle density (concentration)

...ion density (concentration)

... magnetospheric ion density .... magnetospheric proton

density . . . proton density (concentration)

.... magnetospheric proton density

RT atmospheric density plasma density

## magnetostatic amplifiers

amplifiers

magnetostatic amplifiers

gadolinium-gallium garnet magnetic amplifiers parametric amplifiers traveling wave tubes yttrium-aluminum garnet yttrium-iron garnet

#### magnetostatic fields

GS

magnetic fields
. magnetostatic fields
field theory (physics)

lines of force

#### magnetostatics

electromagnetism magnetostatics

electrostatics flux (rate) magnetic fields

magnetostratigraphy (added April 1999)

stratigraphy GS

. magnetostratigraphy

geochronology paleomagnetism

#### magnetostriction

The phenomenon wherein ferromagnetic materials experience an elastic strain when subjected to an external magnetic field. The converse in which mechanical stresses cause a change in the magnetic induction of a ferromagnetic material. Used for magnetoelasticity.

ÚF magnetoelasticity

GS magnetic properties

. magnetostriction

mechanical properties

. elastic properties

magnetostriction electrostriction

magnetoelastic waves

#### magnetotails

(added April 1990)

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT TERMS LISTED BELOW) SN

geomagnetic tail planetary magnetotails

magnetotelluric profiling

USE magnetic surveys

magnetovariographs USE variometers

## magnetron sputtering

DEF A deposition method in which a microwave tube is utilized to confine a plasma magnetically to produce high deposition rates and a low working-gas partial pressure.

sputtering

magnetron sputtering

deposition metal coatings

#### magnetrons

Electron tubes characterized by the interaction of electrons with the electric field of a circuit element in crossed steady electric and magnetic fields to produce alternating current power output.

GS electron tubes

. vacuum tubes

. . microwave tubes

... magnetrons

. . nigotrons

microwave equipment

. microwave oscillators

.. magnetrons

. nigotrons

. microwave tubes

.. magnetrons . . . nigotrons

oscillators

. microwave oscillators

.. magnetrons

. . nigotrons cavity resonators

crossed field amplifiers crossed fields

electrostatic generators

klystrons

multimode resonators

planotrons resonators traveling wave tubes

DEF Bodies which produce magnetic fields around themselves.

#### GS magnets

. cryogenic magnets

. electromagnets

. . high field magnets

superconducting magnets

ferrimagnets

permanent magnets

. wiggler magnets

electrets

ferromagnetic materials

ferromagnetism magnet coils magnetic cores

magnetic fields magnetic materials

magnetic properties magnetization

Permalloys (trademark)

#### magnification

A ratio of the size of an image to its corresponding object. This is usually determined by linear measurement. Used for magnifiers.

UF magnifiers amplification RT increasing lenses ∞ projection

#### magnifiers

USE magnification

#### magnitude

ĞS magnitude

stellar magnitude amplitudes dimensions displacement

∞ intensity level (quantity)

#### magnons

ŨF spin waves

elementary excitations GS

magnons

plasmons

antiferromagnetism ferrimagnetism ferromagnetism magnetization

## Magnus effect

Bernoulli theorem boundary layer flow

∞ effects fluid dynamics fluid flow missile design rotating cylinders

magsails

USE magnetic sails

#### MagSat 1 satellite

DEF A scientific satellite launched by NASA for surveying the Earth's magnetic field. It was launched in October 1979 and reentered in June 1980.

artificial satellites . scientific satellites

. . MagSat satellites

. MagSat 1 satellite

geomagnetism magnetometers

## Magsat A satellite

GS artificial satellites . scientific satellites

. . MagSat satellites . Magsat A satellite

geomagnetism magnetometers

#### MagSat B satellite

DEF The second in a series of satellites for

measuring the Earth's magnetic field. Similar magnetic measurements are proposed as part of the Geopotential Research Mission.

artificial satellites

. scientific satellites

. . MagSat satellites .. MagSat B satellite

RT geomagnetism magnetometers

#### MagSat satellites

DEF A series of satellites used to study the magnetic field.

GS artificial satellites

. scientific satellites

. . MagSat satellites

. . . MagSat 1 satellite

Magsat A satellite

.. MagSat B satellite

geomagnetism magnetometers

#### main sequence stars

GS celestial bodies

. . main sequence stars

. . . dwarf stars . . . . dwarf novae

. . . . flare stars . . . . red dwarf stars

. . sun

RT color-magnitude diagram

early stars F stars G stars giant stars K stars late stars M stars

pre-main sequence stars

stellar evolution stellar mass subdwarf stars subgiant stars

#### Maine

GS nations

. United States

Maine

St Lawrence Valley (North America)

# maintainability

DEF A measure of the ease and rapidity with which a system or equipment can be retained in operational status through preventive maintenance or restored to operational status following a failure. It is characteristic of equipment design and installation, personnel availability in the required skill levels, adequacy of maintenance procedures and test equipment, and the physical environment under which main-

tenance is performed. RT design analysis maintenance reliability

## maintenance

UF repairing troubleshooting

GS maintenance

. aircraft maintenance

. file maintenance (computers) . preventive maintenance

. space maintenance

spacecraft maintenance

checkout construction damage assessment

downtime

equipment specifications fault detection

∞ fixing around crews

ground support equipment

installing logistics

logistics management lubricants

**lubrication** maintainability

# maintenance training

|          | manuals                             |        | . malononitrile                         |           | . human-computer interface              |
|----------|-------------------------------------|--------|---|-----------|---|
|          | mechanical engineering              |        | nitrogen compounds                      | RT        | astronaut performance                   |
|          | operating costs                     |        | . nitriles                              |           | ∞ automation                            |
|          | reliability                         |        | malononitrile                           |           | balancing                               |
|          | replacing                           |        | organic compounds                       |           | bionics                                 |
|          | self repairing devices              |        | . nitriles                              |           | biotechnology                           |
|          | service life                        |        | . malononitrile                         |           | 0,                                      |
|          |                                     |        | maionominie                             |           | computer systems design                 |
|          | shipyards                           | Males  |   |           | consoles                                |
|          | shops                               | Malta  | 1 16                                    |           | cybernetics                             |
|          | spare parts                         | GS     | landforms                               |           | data processing terminals               |
|          | specifications                      |        | . islands                               |           | depersonalization                       |
|          |                                     |        | Malta                                   |           | display devices                         |
|          | ance training                       |        | nations                                 | ۰         | ∞ engineering                           |
| GS       | education                           |        | . Malta                                 |           | human factors engineering               |
|          | . maintenance training              | RT     | Mediterranean Sea                       |           | management                              |
|          |                                     |        |   |           | mechanization                           |
| majority | carriers                            | mamma  | als                                     |           | office automation                       |
| GS       | charge carriers                     | GS     | animals                                 |           | pilot induced oscillation               |
|          | . majority carriers                 |        | . vertebrates                           |           | pilot support systems                   |
| RT       | additives                           |        | mammals                                 |           | robotics                                |
|          | bipolar transistors                 |        | bats                                    |           | ∞ systems                               |
|          | carrier injection                   |        | bears                                   | 0         | •                                       |
|          | electron mobility                   |        | cats                                    |           | systems analysis                        |
|          | electrons                           |        |   |           | systems engineering                     |
|          |                                     |        | cattle                                  |           | systems management                      |
|          | holes (electron deficiencies)       |        | calves                                  |           | teleoperators                           |
|          | semiconductors (materials)          |        | deer                                    |           | virtual reality                         |
| Moloss   | ay Popublic                         |        | caribous                                |           | workstations                            |
| _        | sy Republic                         |        | goats                                   |           |   |
| USE      | Madagascar                          |        | horses                                  |           | perated propulsion systems              |
| Mate 4   |                                     |        | marine mammals                          | UF.       | MOPS (propulsion systems)               |
| Malawi   |                                     |        | dolphins                                | GS        | propulsion                              |
| GS       | nations                             |        | manatees                                |           | . low thrust propulsion                 |
|          | . Malawi                            |        | porpoises                               |           | man operated propulsion                 |
| RT       | Africa                              |        | seals (animals)                         |           | systems                                 |
|          |                                     |        | whales                                  | RT        | astronaut locomotion                    |
| Malaya   |                                     |        | moles                                   | IXI       | compressed air                          |
| USE      | Malaysia                            |        |   |           | •                                       |
|          | -                                   |        | primates                                |           | extravehicular activity                 |
| Malaysi  | a                                   |        | apes                                    |           | gaseous rocket propellants              |
| UF       | Malaya                              |        | chimpanzees                             |           | manned space flight                     |
| GS       | nations                             |        | baboons                                 |           | pilot performance                       |
|          | . Malaysia                          |        | human beings                            |           | retrorocket engines                     |
| RT       | Asia                                |        | monkeys                                 | ۰         | ∞ systems                               |
|          | Total                               |        | rodents                                 |           |   |
| Maldive  | Islands                             |        | guinea pigs                             | man po    | owered aircraft                         |
| GS       | landforms                           |        | hamsters                                | DEF       | Aircraft powered by human energy.       |
| 00       | . islands                           |        | mice                                    | RT o      | ∞ aircraft                              |
|          |                                     |        | jerboas                                 |           | hang gliders                            |
|          | Maldive Islands                     |        | knockout mice                           |           | soaring                                 |
|          | nations                             |        |   |           | ultralight aircraft                     |
|          | . Maldive Islands                   |        | pocket mice                             |           | ∞ winged vehicles                       |
|          |                                     |        | rabbits                                 | ٥         | ∞ wiriged verticles                     |
| maleate  |                                     |        | rats                                    |           | nded free flyers                        |
| GS       | esters                              |        | squirrels                               |           | nded free flyers                        |
|          | . maleates                          |        | ground squirrels                        |           | led July 1989)                          |
|          |                                     |        | dogs                                    |           | Intermittently manned spacecraft        |
| males    |                                     |        | sheep                                   |           | ns designed primarily to carry out expe |
| RT       | adults                              |        | swine                                   | ments i   | in reduced gravity and life science r   |
|          | children                            |        | wolves                                  | search.   | They also serve as annexes or comp      |
|          | females                             | RT     | Earth resources                         | nents of  | f space stations. Used for MTTF (space  |
|          | human beings                        |        | homeotherms                             | station). | •                                       |
|          | sex                                 |        | mammary glands                          | UF        | MTFF (space station)                    |
|          |                                     |        | mammary glands                          | GS        | artificial satellites                   |
|          | sex factor                          | mamm   | ary glands                              |           | . space stations                        |
| malfund  | tions                               |        | anatomy                                 |           | man tended free flyers                  |
|          |                                     | GS     | . chest                                 |           | manned spacecraft                       |
| DEF      | Improper functioning of components, |        |   |           | . man tended free flyers                |
|          | improper operation of a system.     |        | breast                                  |           | space platforms                         |
| RT       | aborted missions                    |        | mammary glands                          |           | . man tended free flyers                |
|          | aircraft accidents                  |        | . glands (anatomy)                      |           | ,                                       |
|          | aircraft hazards                    |        | mammary glands                          |           | stations                                |
|          | downtime                            | RT     | mammals                                 |           | space stations                          |
|          | errors                              |        |   |           | . man tended free flyers                |
|          | failure                             | man    |   | RT        | Columbus space station                  |
|          | system failures                     | USE    | human beings                            |           | European space programs                 |
|          | ,                                   |        |   |           | orbital servicing                       |
| Mali     |                                     | man en | vironment interactions                  |           | space station payloads                  |
| GS       | nations                             | RT     | biomass burning                         |           | spaceborne experiments                  |
|          | . Mali                              |        | climate change                          |           | spacecraft modules                      |
| RT       | Africa                              |        | desertification                         |           | •                                       |
| 13.1     |                                     |        | environment effects                     | manage    | ement                                   |
| Malkus   | theory                              |        | environment management                  | UF        | administration                          |
|          |                                     |        |   | GS        | management                              |
| RT       | statistical mechanics               |        | human beings                            | GS        |   |
| ~        | theories                            | c      | o interactions                          |           | . configuration management              |
|          | ****                                |        | International Geosphere-Biosphere       |           | . contract management                   |
| malleab  |                                     |        | program                                 |           | . data management                       |
| GS       | mechanical properties               |        | resources                               |           | . environment management                |
|          | . malleability                      |        |   |           | . financial management                  |
| RT       | ductility                           |        | achine systems                          |           | . industrial management                 |
|          | metal working                       | DEF    | Systems in which the functions of the   |           | engineering management                  |
|          | <del>-</del>                        |        | d the machine are interrelated and nec- |           | inventory management                    |
| malono   | nitrile                             |        | for the operation of the system.        |           | inventory controls                      |
|          | cyanides                            |        | man machine systems                     |           | personnel management                    |
|          | - ,                                 | -      |   |           | 1                                       |

|        | . information management          | records management                   | quantum theory   |
|--------|-----------------------------------|--------------------------------------|--|
|        | information resources management  | ∞ systems                            | scattering amplitude   |
|        | records management                | ,                                    | 5 1  |
|        | . logistics management            | management methods                   | mandrels   |
|        | inventory management              | GS management methods                | RT cores   |
|        | inventory controls                | . Delphi method (forecas             | ting) machine tools  |
|        | . matrix management               | . pattern method (forecas            | sting) molds   |
|        | . procurement management          | . probe method (forecast             | ing) shafts (machine elements)   |
|        | . production management           | . profile method (forecast           |  |
|        | . project management              | RT computer techniques               | maneuverability  |
|        | . research management             | cost reduction                       | RT air slew missiles   |
|        | . resources management            | critical path method                 | aircraft control   |
|        | forest management                 | decision making                      | aircraft maneuvers   |
|        | reforestation                     | estimates                            | aircraft performance   |
|        | information resources management  | forecasting                          | controllability  |
|        | land management                   | GERT                                 | flight characteristics   |
|        | resource allocation               | incentives                           | flight control   |
|        | . safety management               | matrix management                    | flight envelopes   |
|        | . systems management              | ∞ methodology                        | helicopter performance   |
|        | . terminal area energy management | multidisciplinary research           |  |
|        | . total quality management        | NASA Interactive Plannin             | ng System spacecraft maneuvers   |
|        | . waste management                | operations research                  | maneuverable reentry bodies  |
|        | . water management                | PERT                                 | DEF (1) Reentry vehicles capable of per-   |
|        | . weapon system management        | retraining                           | forming preplanned flight maneuvers during the   |
|        | waste disposal                    | Starsite program                     | reentry phase. (2) Ballistic missil reentry ve-  |
|        | composting                        | systems management                   | and the substitute of the subs |
|        | hazardous material disposal (in   | total quality management             | by internal or external mechanisms, enabling   |
|        | space)                            | management planning                  | them to evade antiballistic defenses and.or  |
|        | waste treatment                   | GS planning                          | strike their target with a high degree of accuracy.  |
|        | sewage treatment                  | . management planning                |  |
| RT     | waste utilization autonomy        | . management planning                | . maneuverable reentry bodies  |
| ΚI     | ,                                 | project planning                     | lifting reentry vehicles   |
|        | Central Electronic Management     | RT consulting                        | FDL-5 reentry vehicle  |
|        | System command and control        | cost analysis                        | HL-10 reentry vehicle  |
|        |                                   | cost analysis                        | HLD-35 reentry vehicle   |
|        | contract negotiation              | decision making                      | Janus spacecraft   |
|        | cost analysis<br>cost estimates   | ∞ development                        | M-2 lifting body   |
|        | cost estimates                    | economy                              | M-2F2 lifting body   |
|        | cost incentives                   | estimates                            | X-20 aircraft  |
|        | cybernetics                       | feasibility analysis                 | X-24 aircraft  |
|        | decision making                   | finance                              | RT ∞ bodies  |
|        | decisions                         | forecasting                          |  |
| ~      | direction                         | GERT                                 | maneuverable spacecraft  |
|        | economic analysis                 | human resources                      | GS maneuverable spacecraft   |
|        | economic factors                  | interfaces                           | . aerospace planes   |
|        | evaluation                        | life cycle costs                     | HOPE aerospace plane   |
|        | fiduciaries                       | mediation                            | HOTOL launch vehicle   |
|        | forecasting                       | mission planning                     | VentureStar launch vehicle   |
|        | GERT                              | operations research                  | X-30 vehicle   |
|        | incentive techniques              | personnel management                 | X-37 vehicle   |
|        | incentives                        | PERT                                 | X-40A vehicle  |
|        | information flow                  | program trend line analys            | sis . Apollo spacecraft  |
|        | man machine systems               | project management                   | Apollo lunar experiment module   |
|        | marketing                         | research and developme               |  |
|        | mission planning                  | selective dissemination of           |  |
|        | operations research               | systems engineering                  | . ferry spacecraft   |
|        | performance prediction            | tradeoffs                            | . Janus spacecraft   |
|        | personnel development             | value engineering                    | . rendezvous spacecraft  |
|        | prejudices                        |                                      | . X-20 aircraft  |
|        | problem solving                   | management systems                   | RT artificial satellites   |
|        | procurement policy                | GS management systems                | interplanetary spacecraft  |
|        | product development               | . flight management syst             |  |
|        | production engineering            | . management informatio              | n systems Iunar landing modules Iunar probes   |
|        | progress                          | RT computer techniques               | lunar satellites   |
|        | project planning                  | information systems                  | manned spacecraft  |
| ~      | research projects                 | project management                   | MARS (Manned Reusable  |
|        | statistical analysis              | ∞ systems                            | Spacecraft)  |
|        | systems engineering               | manatees                             | recoverable spacecraft   |
|        |                                   | DEF Large plant eating aqua          |  |
| manage | ement analysis                    | living in shallow tropical waters ne |  |
| RT ∝   | analyzing                         | of North and South America.          | ∞ spacecraft   |
|        | cost analysis                     | GS animals                           | spacecraft maneuvers   |
|        | GERT                              | . vertebrates                        | thrust vector control  |
|        | PERT                              | mammals                              |  |
|        | tradeoffs                         | marine mammals                       | maneuvers  |
|        |                                   | manatees                             | GS maneuvers   |
| manage | ement information systems         |                                      | . aircraft maneuvers   |
| GS     | information systems               | man-computer interface               | . docking  |
|        | . management information systems  | USE human-computer interf            | . •  |
|        | management systems                | •                                    | . hovering   |
|        | management information systems    | Mandelstam representation            | autonomous docking   |
| RT     | computer techniques               | GS models                            | offshore docking   |
|        | data base management systems      | . mathematical models                | spacecraft docking   |
|        | data retrieval                    | Mandelstam represei                  |  |
|        | data storage                      | RT elementary particle intera        |  |
|        | data systems                      | inelastic scattering                 | . orbital maneuvers  |
|        | information retrieval             | Lorentz transformations              | . terrain following  |
|        | information theory                | nuclear scattering                   | orbital rendezvous   |

... Earth orbital rendezvous . Manganin (trademark) extravehicular activity . . lunar orbital rendezvous electrical resistance life support systems aerobatics thermocouples orbital servicing aircraft spin self maneuvering units flight control manifolds space transportation system air intakes RT landing maneuverability exhaust systems manned Mars missions minor circle turning flight fuel systems DEF Any of several options for manned rendezvous intake systems missions to Mars in which spacecraft are built for self maneuvering units pipes (tubes) a particular mission. A mission is estimated by plenum chambers around 2020 and may last from one year to three sideslip ∞ tubes years depending on speed and design. takeoff ∞ water intakes space missions turning flight . Mars missions manifolds (mathematics) manganese . manned Mars missions manifolds (mathematics) chemical elements GS Crew Exploration Vehicle . manganese . Riemann manifold in situ resource utilization . . manganese isotopes coordinates interplanetary flight curves (geometry) interplanetary spacecraft metals fibers (mathematics) long duration space flight . transition metals fixed points (mathematics) magnetic sails .. manganese topology . . manganese isotopes manned spacecraft Mars (planet) strategic materials manipulation Mars exploration USE manipulators manganese 53 NASA space programs USE manganese isotopes return to Earth space flight manipulators space exploration (LIMITED TO MECHANICAL DEVICES FOR REMOTE HANDLING) manganese 54 SN terraforming USE manganese isotopes UF manipulation manned orbital laboratories GS manipulators manganese 56 MOL (orbital laboratories) . remote manipulator system USE manganese isotopes MORL . . Space Station Mobile Servicing GS laboratories System manganese alloys . space laboratories RT control equipment GS alloys manned orbital laboratories ∞ effectors . manganese alloys Columbus module Destiny Laboratory Module end effectors . . Manganin (trademark) inverse kinematics Skylab 1 payload deployment & retrieval manganese compounds Skylab 2 system manganese compounds Skylab 3 remote control . manganese oxides Skylab 4 remote handling robot arms . . Hopcalite (trademark) Spacelab . manganese phosphides manned spacecraft . permanganates robot dynamics manned orbital laboratories RT ∞ chemical compounds robotics Columbus module servocontrol ∞ Group 7B compounds **Destiny Laboratory Module** shielding ∞ metal compounds Skylab 1 tactile sensors (robotics) Skylab 2 manganese ions teleoperators Skylab 3 GS ions telerobotics Skylab 4 . metal ions torque sensors (robotics) Spacelab . manganese ions Apollo spacecraft Manitoba permanganates Columbus space station GS nations International Space Station manganese isotopes . Canada manganese 53 . . Manitoba orbital workshops reconnaissance spacecraft manganese 54 manganese 56 chemical elements Manitou (CO) space stations GS cities GS Titan 3 launch vehicle Manitou (CO) . manganese Colorado . . manganese isotopes manned orbital space stations . nuclides Manned Aerodynamic Reusable Spaceship USE space stations . . isotopes USE MARS (Manned Reusable manganese isotopes Spacecraft) manned orbital telescopes metals MOT (orbital telescopes) . transition metals manned lunar surface vehicles GS telescopes . . manganese GS surface vehicles manned orbital telescopes . . . manganese isotopes . lunar surface vehicles . Apollo telescope mount . . lunar roving vehicles OAÓ RT manganese oxides ... manned lunar surface vehicles GS chalcogenides . roving vehicles manned reentry . oxides . . lunar roving vehicles GS atmospheric entry . . metal oxides . . manned lunar surface vehicles . reentry ... manganese oxides crawler tractors . . manned reentry . . . Hopcalite (trademark) lunar logistics space flight manganese compounds lunar mobile laboratories . manned space flight manganese oxides ∞ surfaces manned reentry . . Hopcalite (trademark) RT descent trajectories ∞ vehicles walking machines environmental control manganese phosphides manganese compounds
. manganese phosphides lifting reentry vehicles reentry communication manned maneuvering units SN (LIMITED TO ASTRONAUT PROPULSIVE UNITS OF THAT NAME DESIGNED FOR THE SPACE TRANSPORTATION SYSTEM AND THE SPACE STATION)

DEF A propulsive backpack device for extravehicular activity. It uses a low thrust, dry, spacecraft reentry phosphorus compounds . phosphides . manganese phosphides manned space flight GS space flight Manganin (trademark) . manned space flight . . Apollo flights . . . Apollo 5 flight cold nitrogen propellant. GS allovs astronaut maneuvering equipment . copper alloys GS manned maneuvering units . . . Apollo 6 flight . Manganin (trademark)

RT

astronaut locomotion

... Apollo 7 flight

. manganese alloys

|    | Apollo 8 flight                 |            | Space Shuttle orbiters           |         | Apollo 16 flight                           |
|----|---------------------------------|------------|----------------------------------|---------|--|
|    | Apollo 9 flight                 |            | space shuttles                   |         | Apollo 17 flight                           |
|    | Apollo 10 flight                |            | spacecrew transfer               |         | Apollo project                             |
|    | Apollo 11 flight                |            | suborbital flight                |         | Apollo Soyuz test project                  |
|    | Apollo 12 flight                |            | 3                                |         | approach and landing tests (STS)           |
|    | , ,                             |            | l space flight network           |         | artificial satellites                      |
|    |                                 |            | networks                         |         | biosatellites                              |
|    |                                 | ,0         | . tracking networks              |         | boostglide vehicles                        |
|    | Apollo 15 flight                |            | manned space flight network      |         | command service modules                    |
|    | Apollo 16 flight                | RT         | Advanced Range Instrumentation   |         | environmental control                      |
|    | Apollo 17 llight                | <b>\ 1</b> | Ship                             |         | gravity gradient satellites                |
|    | Gemini flights                  |            | unified S band                   |         | interplanetary spacecraft                  |
|    | Gemini 3 flight                 |            | unined 3 band                    |         | landing modules                            |
|    | Gemini 4 flight                 |            |                                  |         | lifting reentry vehicles                   |
|    |                                 |            | l spacecraft                     |         | lunar landing modules                      |
|    | 3 '                             | SS         | manned spacecraft                |         | lunar satellites                           |
|    | Gemini 7 flight                 |            | . Apollo spacecraft              |         | lunar spacecraft                           |
|    | Gemini 8 flight                 |            | Apollo lunar experiment module   |         | maneuverable spacecraft                    |
|    | Gemini 9 flight                 |            | . Astro vehicle                  |         | manned Mars missions                       |
|    | Gemini 10 flight                |            | . Columbus space station         |         | Mercury flights                            |
|    | Gemini 11 flight                |            | . ferry spacecraft               |         | Mercury project                            |
|    | Gemini 12 flight                |            | . Gemini B spacecraft            |         | military spacecraft                        |
|    | manned reentry                  |            | . Gemini spacecraft              |         | reconnaissance spacecraft                  |
|    | Mercury flights                 |            | Gemini 2 spacecraft              |         | recoverable spacecraft                     |
|    | Mercury MA-1 flight             |            | Gemini (GT-1) spacecraft         |         | rendezvous spacecraft                      |
|    | Mercury MA-2 flight             |            | . Janus spacecraft               |         | reusable spacecraft                        |
|    | Mercury MA-3 flight             |            | . Lunar Module                   |         | Shuttle Derived Vehicles                   |
|    | Mercury MA-4 flight             |            | Apollo lunar experiment module   |         |  |
|    | Mercury MA-5 flight             |            | LSSM                             |         | space capsules                             |
|    | Mercury MA-6 flight             |            | Lunar Module 5                   |         | space navigation                           |
|    | Mercury MA-7 flight             |            | Lunar Module 7                   |         | Space Shuttle Boosters                     |
|    | Mercury MA-8 flight             |            | . man tended free flyers         |         | space stations                             |
|    | Mercury MA-9 flight             |            | . manned orbital laboratories    | •       | spacecraft                                 |
|    | Mercury MR-1 flight             |            | Columbus module                  |         | spacecraft cabin simulators                |
|    | Mercury MR-2 flight             |            | . Destiny Laboratory Module      |         | unmanned spacecraft                        |
|    | Mercury MR-3 flight             |            | Skylab 1                         |         | X-20 aircraft                              |
|    | Mercury MR-4 flight             |            | Skylab 1                         |         |  |
|    | Space Shuttle missions          |            | Skylab 3                         |         | g theory                                   |
|    | ·                               |            | •                                | RT      | fluid flow                                 |
|    | Space Shuttle mission 31-A      |            | Skylab 4                         | •       | • theories                                 |
|    | Space Shuttle mission 31-B      |            | Spacelab                         |         | wall flow                                  |
|    | Space Shuttle mission 31-C      |            | . MARS (Manned Reusable          |         |  |
|    | Space Shuttle mission 31-D      |            | Spacecraft)                      | mannite | ol   |
|    | Space Shuttle mission 41-A      |            | . Mercury spacecraft             | GS      | organic compounds                          |
|    | Space Shuttle mission 41-B      |            | Aurora 7                         |         | . carbohydrates                            |
|    | Space Shuttle mission 41-C      |            | . Faith 7                        |         | sugars                                     |
|    | Space Shuttle mission 41-D      |            | Friendship 7                     |         | mannitol                                   |
|    | Space Shuttle mission 41-G      |            | SIGMA 7                          |         |  |
|    | Space Shuttle mission 51-A      |            | . Mir space station              | Mann-V  | Vhitney-Wilcoxon U test                    |
|    | Space Shuttle mission 51-B      |            | . orbital workshops              | GS      | statistical analysis                       |
|    | Space Shuttle mission 51-C      |            | Saturn workshops                 |         | . statistical tests                        |
|    | Space Shuttle mission 51-D      |            | Saturn 1 workshop                |         | Mann-Whitney-Wilcoxon U test               |
|    | Space Shuttle mission 51-E      |            | Saturn 5 workshop                | RT      | quality control                            |
|    | Space Shuttle mission 51-F      |            | Skylab 1                         | 111     | quality control                            |
|    | Space Shuttle mission 51-G      |            | Skylab 2                         | manom   | otors                                      |
|    | Space Shuttle mission 51-H      |            | Skylab 3                         |         |  |
|    | Space Shuttle mission 51-I      |            | Skylab 4                         |         | Instruments for measuring pressure o       |
|    | Space Shuttle mission 51-J      |            | . Salyut space station           |         | nd vapors above and below atmospheric      |
|    | Space Shuttle mission 51-L      |            | . Soyuz spacecraft               |         | e. Used for micromanometers and L          |
|    | Space Shuttle mission 61-A      |            | . Space Operations Center (NASA) | tubes.  |  |
|    | Space Shuttle mission 61-B      |            | . space shuttles                 | UF      | micromanometers                            |
|    | Space Shuttle mission 61-C      |            | Buran space shuttle              | 00      | U tubes                                    |
|    | Space Shuttle mission 61-E      |            | Hermes manned spaceplane         | GS      | measuring instruments                      |
| RT | aerospace environments          |            | Space Shuttle orbiters           |         | . pressure gages                           |
|    | Apollo extension system         |            | Atlantis (orbiter)               | БТ      | manometers                                 |
|    | Atlantis (orbiter)              |            | Challenger (Orbiter)             | RT      | barometers                                 |
|    | Columbia (Orbiter)              |            | Columbia (Orbiter)               |         | blood pressure                             |
|    | Constellation program           |            | Discovery (Orbiter)              |         | flame probes                               |
|    | Crew Exploration Vehicle        |            | Endeavour (orbiter)              |         | pressure distribution                      |
|    | Discovery (Orbiter)             |            | Enterprise (Orbiter)             |         | pressure measurement                       |
|    | Enterprise (Orbiter)            |            | . voskhod manned spacecraft      |         | vacuum gages                               |
|    | extravehicular activity         |            | Voskhod 1 spacecraft             |         |  |
|    | Gemini 2 spacecraft             |            | Voskhod 2 spacecraft             | manpo   | wer  |
|    |                                 |            |                                  | GS      | manpower                                   |
|    | Gemini (GT-1) spacecraft        |            | . Vostok spacecraft              |         | . engineers                                |
|    | Gemini B spacecraft             |            | Vostok 1 spacecraft              |         | . scientists                               |
|    | Gemini spacecraft               |            | Vostok 2 spacecraft              | RT      | engineering management                     |
|    | human factors engineering       |            | Vostok 3 spacecraft              |         | human resources                            |
|    | Indian space program            |            | Vostok 4 spacecraft              |         | labor                                      |
|    | interplanetary flight           |            | Vostok 5 spacecraft              |         | personnel                                  |
|    | interstellar travel             |            | Vostok 6 spacecraft              |         | research management                        |
|    | intravehicular activity         |            | . Crew Exploration Vehicle       |         | resources                                  |
|    | long duration space flight      |            | . HOPE aerospace plane           |         | retraining                                 |
|    | man operated propulsion systems |            | . Shenzhou 5 spacecraft          |         | Todaming                                   |
|    | Mercury project F               | RТ         | Apollo 7 flight                  | man41-  | (Forth atrusture)                          |
|    | space adaptation syndrome       |            | Apollo 8 flight                  |         | (Earth structure)                          |
|    | space communication             |            | Apollo 10 flight                 | USE     | Earth mantle                               |
|    | space exploration               |            | Apollo 11 flight                 |         |  |
|    | space flight stress             |            | Apollo 12 flight                 | ∞ manua |  |
|    | space logistics                 |            | Apollo 13 flight                 | SN      | (USE OF A MORE SPECIFIC TERM IS            |
|    | space programs                  |            | Apollo 14 flight                 |         | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |
|    | space psychology                |            | Apollo 15 flight                 | RT      | manual control                             |
|    | -1 1 7                          |            | i                                | 111     |  |

| manuals  | field theory (physics)   | . astronomical maps  |
|--|--|--|
|  | four body problem  | planispheres   |
| manual control   | Green's functions  | . lunar maps   |
| GS manual control  | Hartree approximation  | . meteorological charts  |
| . visual control   | orbital mechanics  | . photomaps  |
| RT aircraft control  | orbits   | . radar clutter maps   |
| attitude control   | particle theory  | . radar maps   |
| automatic control  | perturbation   | relief maps  |
| ∞ buttons<br>consoles  | perturbation theory  | RT Bonne projection  |
| ∞ control  | ∞ problems   | cadastral mapping  |
| control boards   | quantum statistics<br>statistical mechanics  | charts<br>computer aided mapping   |
| control equipment  | superfluidity  | coordinates  |
| control sticks   | three body problem   | datum (elevation)  |
| directional control  | Trojan orbits  | geography  |
| engine control   | two body problem   | ∞ globes   |
| guidance (motion)  | , p  | hypsography  |
| handles  | many electron effects  | mapping  |
| helicopter control   | RT autoionization  | Mercator projection  |
| human factors engineering  | electron capture   | navigation aids  |
| knobs  | electron scattering  | photomapping   |
| landing instruments  | electron states  | soil mapping   |
| lateral control  | electron transitions   | surveys  |
| levers   |  | thematic mapping   |
| longitudinal control   | many particle theory   | ••   |
| ∞ manual   | USE many body problem  | Mapsat   |
| pedals   | MAD (programming language)   | DEF A proposed stereoscopic system for   |
| reentry guidance   | MAP (programming language) GS languages  | mapping the Earth from space to replace Land-  |
| remote control satellite control   | 0 0  | sat D as defined by the US Geological Survey.  |
|  | . programming languages<br>Assembly language   | GS artificial satellites   |
| satellite guidance<br>servocontrol   | MAP (programming language)   | . Mapsat   |
| spacecraft control   | RT computer programming  | RT Landsat satellites  |
| spacecraft guidance  | 101 Computer programming   | mapping  |
| speed control  | MAP (space probe)  | remote sensing<br>stereophotography  |
| temperature control  | (added November 2002)  | Storeophotography  |
| 1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1   | USE Microwave Anisotropy Probe   | maraging   |
| manuals  | • •  | GS hardening (materials)   |
| GS documents   | map matching guidance  | . precipitation hardening  |
| . manuals  | GS guidance (motion)   | maraging   |
| installation manuals   | . map matching guidance  | heat treatment   |
| user manuals (computer programs)   | RT airborne equipment  | . maraging   |
| RT directories   | display devices  |  |
| educational resources  | image correlators  | maraging steels  |
| handbooks  | radar maps   | GS alloys  |
| maintenance  | radar navigation   | . high strength alloys   |
|  |  |  |
| ∞ manual   | TERCOM   | . high strength steels   |
| ∞ manual<br>textbooks  | terrain following  | maraging steels  |
| textbooks  | terrain following video landmark acquisition and   | <b>maraging steels</b><br>. iron alloys  |
| textbooks manufacturing  | terrain following  | maraging steels<br>. iron alloys<br>steels   |
| textbooks  manufacturing GS manufacturing  | terrain following<br>video landmark acquisition and<br>tracking  | maraging steels . iron alloys steels high strength steels  |
| textbooks  manufacturing GS manufacturing . computer aided manufacturing   | terrain following<br>video landmark acquisition and<br>tracking<br>mapping   | maraging steels . iron alloys steels high strength steels maraging steels  |
| textbooks  manufacturing GS manufacturing . computer aided manufacturing . group technology (manufacturing)  | terrain following video landmark acquisition and tracking  mapping SN (EXCLUDES CONFORMAL MAPPING)   | maraging steels . iron alloys steels high strength steels maraging steels RT martensitic stainless steels  |
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| manufacturing GS manufacturing . computer aided manufacturing . group technology (manufacturing) . low gravity manufacturing . space manufacturing RT aircraft production costs commerce commodities containerless melts contract negotiation economic development fabrication industries Kraft process (woodpulp) ∞ processing production management products space industrialization technologies technology assessment technology utilization  manures  DEF Materials that fertilize land. Refuse of stables and barnyards consisting of mammal and bird excreta with or without litter. GS wastes  | terrain following video landmark acquisition and tracking  mapping  SN (EXCLUDES CONFORMAL MAPPING) UF cartography flux mapping  | maraging steels . iron alloys steels high strength steels maraging steels RT martensitic stainless steels stainless steels  Marangoni convection DEF Convective flow induced by surface tension gradients. This is important in both ground and space processing where a free surface is present. GS convection . surface tension driven convection Marangoni convection RT convective flow free convection interfacial tension liquid bridges low gravity manufacturing melts (crystal growth) microgravity space processing thermocapillary migration  Marbore 2 engine USE J-69-T-25 engine  Marecs maritime satellites DEF The European Space Agency's system of two satellites provides maritime communica-   |
| manufacturing GS manufacturing . computer aided manufacturing . group technology (manufacturing) . low gravity manufacturing . space manufacturing RT aircraft production costs commerce commodities containerless melts contract negotiation economic development fabrication industries Kraft process (woodpulp) ∞ processing production management products space industrialization technologies technology assessment technology utilization  manures  DEF Materials that fertilize land. Refuse of stables and barnyards consisting of mammal and bird excreta with or without litter. GS wastes . manures  | terrain following video landmark acquisition and tracking  mapping  SN (EXCLUDES CONFORMAL MAPPING) UF cartography flux mapping GS mapping . cadastral mapping . computer aided mapping . ice mapping . photomapping . photomapping . planetary mapping . soil mapping . thematic mapping . thermal mapping astrography Bonne projection contours declination fixed points (mathematics) functions (mathematics) geography Heat Capacity Mapping Mission hypsography maps Mapsat orthophotography Phoenix quadrangle (AZ) photogrammetry photography   | maraging steels . iron alloys steels high strength steels maraging steels RT martensitic stainless steels stainless steels  Marangoni convection DEF Convective flow induced by surface tension gradients. This is important in both ground and space processing where a free surface is present. GS convection . surface tension driven convection Marangoni convection RT convective flow free convection interfacial tension liquid bridges low gravity manufacturing melts (crystal growth) microgravity space processing thermocapillary migration  Marbore 2 engine USE J-69-T-25 engine  Marecs maritime satellites DEF The European Space Agency's system of two satellites provides maritime communica- tions links between ships and coast Earth sta-  |
| manufacturing GS manufacturing . computer aided manufacturing . group technology (manufacturing) . low gravity manufacturing . space manufacturing RT aircraft production costs commerce commodities containerless melts contract negotiation economic development fabrication industries Kraft process (woodpulp) ∞ processing production management products space industrialization technologies technology assessment technology utilization  manures DEF Materials that fertilize land. Refuse of stables and barnyards consisting of mammal and bird excreta with or without litter. GS wastes . manures RT biomass energy production metabolic wastes waste disposal  | terrain following video landmark acquisition and tracking  mapping  SN (EXCLUDES CONFORMAL MAPPING) UF cartography flux mapping GS mapping . cadastral mapping . computer aided mapping . ice mapping . photomapping . planetary mapping . soil mapping . thematic mapping . thematic mapping . thermal mapping RT astrography Bonne projection contours declination fixed points (mathematics) functions (mathematics) geographic applications program geography Heat Capacity Mapping Mission hypsography maps Mapsat orthophotography Phoenix quadrangle (AZ) photogrammetry photography scale (ratio)  | maraging steels .iron alloyssteelshigh strength steelshigh strength steelsmaraging steels RT martensitic stainless steels stainless steels  Marangoni convection DEF Convective flow induced by surface tension gradients. This is important in both ground and space processing where a free surface is present. GS convectionmarangoni convectionMarangoni convectionMarangoni convection interfacial tension liquid bridges low gravity manufacturing melts (crystal growth) microgravity space processing thermocapillary migration  Marbore 2 engine USE J-69-T-25 engine  Marecs maritime satellites DEF The European Space Agency's system of two satellites provides maritime communications links between ships and coast Earth stations. Originally known as Marots, the system  |
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|          | Marecs maritime satellites . maritime satellites |        | seals (animals)                                  |         | Mariner 1 space probe  |
|----------|--|--------|--|---------|--|
|          | Marecs maritime satellites                       |        | Wriales  | Mariner | 2 space probe  |
|          | ESA spacecraft                                   | marino | meteorology                                      |         | interplanetary spacecraft  |
|          | . ESA satellites                                 | GS     | meteorology                                      |         | . Mariner space probes   |
|          | Marecs maritime satellites                       | 00     | . hydrometeorology                               |         | Mariner 2 space probe  |
| RT       | European space programs                          |        | marine meteorology                               |         | . Venus probes   |
|          | satellite networks                               | RT     | fronts (meteorology)                             |         | Mariner 2 space probe  |
|          |  |        | GOES 13  |         | unmanned spacecraft  |
| margins  |  |        | oceanography                                     |         | . space probes   |
| RT       | borders  | ~      | science  |         | Mariner space probes   |
|          | edges  |        | typhoons   |         | Mariner 2 space probe  |
|          | rims   |        | wind (meteorology)                               |         | Venus probes Mariner 2 space probe   |
| maria    |  | marina | an deathar                                       |         | Atlas Agena B launch vehicle   |
| GS       | maria  |        | navigation                                       | IXI     | Alias Ageria D laurion verilore  |
|          | . lunar maria                                    | USE    | surface navigation                               | Mariner | 3 space probe  |
| RT       | lava   | marina | propulsion                                       |         | interplanetary spacecraft  |
|          | meteorite craters                                |        | propulsion                                       |         | . Mariner space probes   |
|          | topography                                       | 00     | . marine propulsion                              |         | Mariner 3 space probe  |
|          |  |        | underwater propulsion                            |         | . Mars probes  |
| marijua  |  |        | submarine propulsion                             |         | Mariner 3 space probe  |
| GS       | drugs  | RT     | chemical propulsion                              |         | unmanned spacecraft  |
|          | . psychotropic drugs marijuana                   |        | electric propulsion                              |         | . space probes   |
| RT       | alkaloids  |        | jet propulsion                                   |         | Mariner space probes Mariner 3 space probe   |
| 13.1     | anaioids   |        | nuclear electric propulsion                      |         | Mars probes  |
| marine   | biology  |        | nuclear propulsion                               |         | Mariner 3 space probe  |
| DEF      | The study of marine fauna and flora              |        | propeller drive<br>Savannah nuclear ship         |         | The second secon |
| and rela | ted topics.                                      |        | Savarillari fluciear ship                        | Mariner | 4 space probe  |
| RT       | algae  | marine | resources  | GS      | interplanetary spacecraft  |
|          | aquatic plants                                   | GS     | resources  |         | . Mariner space probes   |
|          | aquiculture                                      |        | . Earth resources                                |         | Mariner 4 space probe  |
| 000      | biology  |        | marine resources                                 |         | . Mars probes  |
|          | environment effects environmental quality        | RT     | aquiculture                                      |         | Mariner 4 space probe  |
|          | fisheries  |        | coastal ecology                                  |         | unmanned spacecraft . space probes   |
|          | limnology  |        | fisheries  |         | Mariner space probes   |
|          | oceanography                                     |        | oceanography                                     |         | Mariner 4 space probe  |
|          | phytoplankton                                    |        | oceans   |         | Mars probes  |
| 000      | science  |        | sea water  |         | Mariner 4 space probe  |
|          | sea grasses                                      |        | shellfish<br>underwater resources                |         |  |
|          | seals (animals)                                  |        | water pollution                                  |         | 5 space probe  |
|          | seaweeds   |        | wetlands   | GS      | interplanetary spacecraft  |
|          | shellfish  |        |  |         | . Mariner space probes   |
|          | thermal pollution                                | marine | rudders  |         | Mariner 5 space probe  |
|          | waterfowl<br>wetlands                            | GS     | control surfaces                                 |         | . Venus probes Mariner 5 space probe   |
|          | zooplankton                                      |        | . rudders  |         | unmanned spacecraft  |
|          | Zoopiankon                                       |        | marine rudders                                   |         | . space probes   |
| marine   | chemistry  | RT     | aerial rudders                                   |         | Mariner space probes   |
| DEF      | The study of the chemical processes in           |        | hydrofoils                                       |         | Mariner 5 space probe  |
| oceanic  | environments.                                    |        | tail assemblies                                  |         | Venus probes   |
| GS       | environmental chemistry                          |        | taab nalaan.                                     |         | Mariner 5 space probe  |
|          | marine chemistry                                 | GS     | technology<br>technologies                       | RT      | Atlas Agena launch vehicles  |
| RT       | biochemistry                                     | 00     | . marine technology                              |         | C  |
| ~        | chemistry  | RT     | aquiculture                                      |         | 6 space probe  |
|          | geochemistry<br>hydrology                        |        | artificial harbors                               | GS      | interplanetary spacecraft . Mariner space probes   |
|          | limnology  |        | deepwater terminals                              |         | Mariner 6 space probe  |
|          | ocean bottom                                     |        | oceanography                                     |         | . Mars probes  |
| 000      | science  |        | offshore docking                                 |         | Mariner 6 space probe  |
|          | sediments  |        | offshore energy sources                          |         | unmanned spacecraft  |
|          |  |        | offshore platforms                               |         | space probes   |
|          | environments                                     |        | tanker terminals                                 |         | Mariner space probes   |
| GS       | environments                                     |        | wharves  |         | Mariner 6 space probe  |
| DT       | . marine environments                            | morino | transportation                                   |         | Mars probes  |
| RT       | aquiculture                                      | GS     | transportation                                   | DT      | Mariner 6 space probe  |
|          | beaches coastal ecology                          | GG     | . marine transportation                          | RT      | Atlas Agena launch vehicles  |
|          | coasts   | RT     | air transportation                               |         | Mars 69 project  |
|          | environment effects                              |        | deepwater terminals                              | Mariner | 7 space probe  |
|          | ice environments                                 |        | harbors  |         | interplanetary spacecraft  |
|          | nearshore water                                  |        | offshore docking                                 |         | . Mariner space probes   |
|          | ocean models                                     |        | rail transportation                              |         | Mariner 7 space probe  |
|          | oceanography                                     |        | ships  |         | . Mars probes  |
|          | red tide   |        | tanker ships                                     |         | Mariner 7 space probe  |
|          | sea breeze                                       |        | water vehicles                                   |         | unmanned spacecraft  |
|          | shellfish  | Ment   | 4 anaca nucle                                    |         | . space probes   |
|          | waterfowl  |        | 1 space probe                                    |         | Mariner space probes   |
|          | wetlands   | GS     | interplanetary spacecraft . Mariner space probes |         | Mariner 7 space probe Mars probes  |
| marine   | mammals  |        | Mariner 1 space probe                            |         | Mariner 7 space probe  |
| GS       | animals  |        | . Venus probes                                   | RT      | Mars 69 project  |
|          | . vertebrates                                    |        | Mariner 1 space probe                            | 17.1    | oo projoot   |
|          | mammals  |        | unmanned spacecraft                              | Mariner | 8 space probe  |
|          | marine mammals                                   |        | . space probes                                   |         | interplanetary spacecraft  |
|          | dolphins   |        | Mariner space probes                             |         | . Mariner space probes   |
|          | manatees   |        | Mariner 1 space probe                            |         | Mariner 8 space probe  |
|          | porpoises  |        | Venus probes                                     |         | . Mars probes  |

... Mariner 8 space probe unmanned spacecraft space probes

. . Mariner space probes

... Mariner 8 space probe . . Mars probes

Mariner 8 space probe

RT Mars 71 project

#### Mariner 9 space probe

GS interplanetary spacecraft

. Mariner space probes

Mariner 9 space probe

. Mars probes

Mariner 9 space probe

unmanned spacecraft

space probes

. . Mariner space probes

... Mariner 9 space probe

. . Mars probes

... Mariner 9 space probe

#### Mariner 10 space probe

GS interplanetary spacecraft

. Mariner space probes

Mariner 10 space probe

. Venus probes

Mariner 10 space probe

unmanned spacecraft

. space probes

. . Mariner space probes . . . Mariner 10 space probe

. . Venus probes

Mariner 10 space probe

Mariner Venus-Mercury 1973 Mariner-Mercury 1973

#### Mariner 11 space probe

GS interplanetary spacecraft

. Mariner space probes

unmanned spacecraft . space probes

. . Mariner space probes

Mariner 11 space probe

# Mariner C spacecraft

interplanetary spacecraft

. Mariner spacecraft . . Mariner C spacecraft

unmanned spacecraft

. space probes

. . Mariner spacecraft

... Mariner C spacecraft

### Mariner Jupiter-Saturn flyby

GS space missions

. flyby missions

. . Grand Tours

. Mariner Jupiter-Saturn flyby

RT interplanetary flight

∞ missions space flight

#### Mariner Jupiter-Uranus flyby

space missions

. flyby missions

.. Grand Tours

. . Mariner Jupiter-Uranus flyby

RT interplanetary flight

∞ missions

space flight

#### Mariner Mark 2 Spacecraft

DEF A NASA concept of a basic planetary spacecraft for studying the outer planets, comets, and asteroids. The first of the series will be a comet rendezvous mission to be launched in

Cassini mission

Comet Rendezvous Asteroid Flyby Mission

flyby missions

interplanetary flight

∞ spacecraft

#### Mariner program

programs GS

. NASA programs

. . NASA space programs

... Mariner program

. . . . Mariner Venus-Mercury 1973

. . . . Mariner-Mercury 1973

. space programs

. . NASA space programs

... Mariner program

. . . . Mariner Venus-Mercury 1973

. . . Mariner-Mercury 1973

RT Agena B rocket vehicle

Agena rocket vehicles

Atlas Agena launch vehicles

Atlas launch vehicles

Centaur project

flyby missions

Mars probes

space probes

unmanned spacecraft Venus probes

#### Mariner R 2 space probe

GS interplanetary spacecraft

. Mariner space probes

. . Mariner R 2 space probe unmanned spacecraft

. space probes

. . Mariner space probes

... Mariner R 2 space probe

#### Mariner space probes

GS interplanetary spacecraft

. Mariner space probes

. . Mariner 1 space probe

. . Mariner 2 space probe

Mariner 3 space probe

. . Mariner 4 space probe

Mariner 5 space probe

. Mariner 6 space probe . Mariner 7 space probe

. . Mariner 8 space probe

.. Mariner 9 space probe .. Mariner 10 space probe

Mariner 11 space probe Mariner R 2 space probe

unmanned spacecraft

. space probes

. . Mariner space probes . . . Mariner 1 space probe

Mariner 2 space probe

Mariner 3 space probe

Mariner 4 space probe

Mariner 5 space probe Mariner 6 space probe

Mariner 7 space probe

Mariner 8 space probe

Mariner 9 space probe

Mariner 10 space probe

Mariner 11 space probe

. . . Mariner R 2 space probe

# Mariner spacecraft

GS interplanetary spacecraft

. Mariner spacecraft

. . Mariner C spacecraft

. . Mariner Venus 67 spacecraft

unmanned spacecraft

. space probes ... Mariner spacecraft

. . . Mariner C spacecraft

... Mariner Venus 67 spacecraft

### Mariner Venus 67 spacecraft

GS interplanetary spacecraft

Mariner spacecraft

. . Mariner Venus 67 spacecraft unmanned spacecraft

space probes

. . Mariner spacecraft . Mariner Venus 67 spacecraft

RT Venus probes

# Mariner Venus-Mercury 1973

GS programs

. NASA programs

. . NASA space programs

. . . Mariner program
. . . . Mariner Venus-Mercury 1973 . space programs

. . NASA space programs

... Mariner program .... Mariner Venus-Mercury 1973 space missions

. flyby missions

Mariner Venus-Mercury 1973

Mariner 10 space probe Mariner-Mercury 1973

#### Mariner-Mercury 1973

GS programs

. NASA programs

. . NASA space programs

. . . Mariner program . . . . Mariner-Mercury 1973

. space programs

. . NASA space programs

. . . Mariner program . Mariner-Mercury 1973

space missions

. flyby missions

. Mariner-Mercury 1973 Mariner 10 space probe

Mariner Venus-Mercury 1973

#### Marisat 1 satellite

DEF The first commercial maritime communication satellite.

GS artificial satellites

. Marisat satellites

Marisat 1 satellite

RT radio communication

#### Marisat satellites

DEF A class of maritime commercial communication service satellites designed to provide telephone, telegraph, radio, distress messages and facsimile services to merchant ships, etc.

GS artificial satellites

. Marisat satellites

. . Marisat 1 satellite

communication Fleet Satellite Communication System

INMARSAT satellites Marots (ESA)

radio communication

Maritime Communication Satellite (ESA) USE Marots (ESA)

Maritime Orbital Test Satellite USE Marots (ESA)

maritime satellites

GS artificial satellites

. maritime satellites . . ERS-1 (ESA satellite)

. Marecs maritime satellites

. Marots (ESA) RT

MSAT National Oceanic Satellite System

**TOPEX** Mark 1 reentry body GS

reentry vehicles

Mark 1 reentry body intercontinental ballistic missiles intermediate range ballistic missiles

Mark 1 spacecraft RT ∞ spacecraft

Mark 2 reentry body

GS reentry vehicles Mark 2 reentry body intercontinental ballistic missiles

intermediate range ballistic missiles

Mark 3 reentry body GS reentry vehicles

Mark 3 reentry body

intercontinental ballistic missiles intermediate range ballistic missiles

#### Mark 4 reentry body

GS reentry vehicles

Mark 4 reentry body intercontinental ballistic missiles

GS reentry vehicles
. Mark 5 reentry body

Mark 5 reentry body

MARS (Manned Reusable Spacecraft) intercontinental ballistic missiles zero sum games . Mars 4 Spacecraft Soviet spacecraft markup languages . Mars 4 Spacecraft Mark 6 reentry body (added June 2000) unmanned spacecraft GS reentry vehicles USE document markup languages . space probes Mark 6 reentry body . . Mars probes intercontinental ballistic missiles Marots (ESA) Mars 4 Spacecraft DEF Earlier name for the Marecs maritime RT U.S.S.R. space program satellites. Used for Maritime Communication Mark 11 reentry body Satellite (ESA) and Maritime Orbital Test Satelreentry vehicles GS Mark 11 reentry body Mars 5 spacecraft GS interplanetary spacecraft intercontinental ballistic missiles Maritime Communication Satellite . Mars probes (ESA) Maritime Orbital Test Satellite Mars 5 spacecraft Mark 12 reentry body Soviet spacecraft GS artificial satellites GS reentry vehicles Mars 5 spacecraft . communication satellites Mark 12 reentry body unmanned spacecraft . Marots (ESA) intercontinental ballistic missiles . space probes ESA satellites Mars probes ... Marots (ESA) Mark 17 reentry body Mars 5 spacecraft . maritime satellites reentry vehicles U.S.S.R. space program GS Marots (ESA) Mark 17 reentry body ESA spacecraft intercontinental ballistic missiles . ESA satellites Mars 6 spacecraft Marots (ESA) GS interplanetary spacecraft RT European Space Agency Markarian galaxies . Mars probes GS celestial bodies Marisat satellites Mars 6 spacecraft . galaxies rangefinding Soviet spacecraft . . active galaxies rescue operations . Mars 6 spacecraft ship terminals . . Markarian galaxies unmanned spacecraft RT Seyfert galaxies . space probes Marquardt R4D engine . . Mars probes GS engines Mars 6 spacecraft markers Marquardt R4D engine RT U.S.S.R. space program (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Apollo project auxiliary propulsion Mars 7 spacecraft RT beacons command modules GS interplanetary spacecraft biomarkers ∞ reaction control buoys satellite attitude control . Mars probes crayons spacecraft control Mars 7 spacecraft Soviet spacecraft dyes . Mars 7 spacecraft radio beacons ∞ mars (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) unmanned spacecraft runway lights SN smoke . space probes Mars probes MARS (Manned Reusable RT Mars 7 spacecraft Spacecraft) market research RT U.S.S.R. space program Mars (planet) GS research navigation aids . market research tracking stations Mars 69 project commerce commodities GS programs Mars 1 spacecraft . NASA programs consumers interplanetary spacecraft . . NASA space programs marketing ... Mars 69 project . Mars probes product development . Mars 1 spacecraft . projects Soviet spacecraft ... Mars 69 project marketing Mars 1 spacecraft . space programs RT commerce unmanned spacecraft . . NASA space programs commercialization . space probes Mars 69 project consumers . . Mars probes RT Mariner 6 space probe finance Mars 1 spacecraft Mariner 7 space probe industrial areas U.S.S.R. space program space exploration management market research Mars 2 spacecraft product development Mars 71 project interplanetary spacecraft supplying GS programs . Mars probes . NASA programs . Mars 2 spacecraft . . NASA space programs marking Soviet spacecraft .. Mars 71 project UF labeling (marking) . Mars 2 spacecraft . projects unmanned spacecraft tagging . . Mars 71 project GS marking . space probes . space programs
. NASA space programs . isotopic labeling .. Mars probes RT detection Mars 2 spacecraft identifying materials handling . Mars 71 project U.S.S.R. space program RT Mariner 8 space probe space exploration packaging Mars 3 spacecraft interplanetary spacecraft staining . Mars probes ∞ tracers MARS (Manned Reusable Spacecraft) . Mars 3 spacecraft (NOT RESTRICTED TO SPACECRAFT FOR FLIGHT TO PLANET MARS) Soviet spacecraft Markov chains Mars 3 spacecraft UF Manned Aerodynamic Reusable GS stochastic processes unmanned spacecraft Spaceship . Markov processes manned spacecraft . space probes Markov chains . MARS (Manned Reusable . . Mars probes Monte Carlo method Spacecraft) Mars 3 spacecraft random walk U.S.S.R. space program reentry vehicles

Mars 4 Spacecraft

GS

DEF One of a series of Soviet unmanned

spacecraft designed for Mars exploration.

interplanetary spacecraft

. Mars probes

Markov processes

GS

stochastic processes

. Markov chains

RT random processes

Markov processes

#### 569

. recoverable spacecraft

maneuverable spacecraft

Spacecraft)

. . reusable spacecraft ... MARS (Manned Reusable

RT ferry spacecraft

Mars Surveyor 98 Program

∞ mars

Mars (planet)

celestial bodies GS

. planets

. . terrestrial planets

. Mars (planet)

2001 Mars Odyssey

Amor asteroid

Apollo asteroids

Deimos

dust storms

extraterrestrial water

manned Mars missions

o mars

Mars atmosphere

Mars bases

Mars environment

Mars Reconnaissance Orbiter

Mars sample return missions

Mars surface Mars volcanoes

Phobos

planetary craters

planetary cryospheres

polar caps

SNC meteorites terraforming

#### Mars atmosphere

GS environments

. extraterrestrial environments

. . planetary environments

. . . Mars environment .... Mars atmosphere

. . . planetary atmospheres

... Mars atmosphere

aerospace environments

Mars (planet)
Mars Climate Orbiter

Mars Express

Mars Global Surveyor

Mars Polar Lander

Mars Surveyor 98 Program

Mars volcanoes

Phobos spacecraft planetary ionospheres

planetary meteorology

#### Mars bases

(added September 1994)

UF Mars colonies GS

space bases

. planetary bases

. Mars bases

extraterrestrial environments

long duration space flight

lunar bases

Mars (planet)

space colonies

space habitats

#### Mars Climate Orbiter

(added March 1999)

One of two spacecraft comprising the Mars Surveyor 98 program; launched December 1998. After obtaining a polar, nearly circular orbit around Mars, the Orbiter will serve as a radio relay during the Lander surface mission, then begin monitoring the atmosphere, surface, and polar caps for a complete Martian year. The Orbiter carries two science instruments: the Pressure Modulated Infrared Radiometer and the Mars Color Imager.

Mars Surveyor 98 Orbiter

interplanetary spacecraft

. Mars probes

. Mars Climate Orbiter

unmanned spacecraft

space probes

. . Mars probes

. . Mars Climate Orbiter Mars atmosphere

Mars missions Mars Polar Lander Mars surface

Mars colonies USE Mars bases

Mars craters

Craters from meteoritic impact on the DFF surface of Mars.

GS craters

planetary craters

. Mars craters

cratering

ejecta

impact damage

meteorite craters

meteoritic damage

#### Mars environment

GS environments

. extraterrestrial environments

. . planetary environments

. . . Mars environment

. . Mars atmosphere

dust storms

Mars (planet)

Mars Surveyor 2001 Mission

Mars volcanoes

Phobos spacecraft terraforming

#### Mars Excursion Module

UF MEM (excursion module)

GS modules

. spacecraft modules

. . landing modules
. . . Mars Excursion Module

soft landing spacecraft

. landing modules

. Mars Excursion Module spacecraft components

. spacecraft modules

. . landing modules

. Mars Excursion Module

RT Mars exploration

#### Mars exploration

(added September 1994)

exploration

space exploration

Mars exploration

2001 Mars Odyssey Crew Exploration Vehicle

Earth-Mars trajectories interplanetary flight

lunar exploration

manned Mars missions Mars Excursion Module

Mars Express

Mars landing sites

Mars missions Mars Reconnaissance Orbiter

Mars roving vehicles

Marsokhod Mars roving vehicles

space colonies

#### Mars Express

(added November 2003)

DEF European Space Ageny spacecraft and related mission designed to search for sub-surface water on Mars and collect data on the Mars atmosphere, structure, geology, and composition. The spacecraft will deploy a lander ( Beagle 2) that will perform exobiology and geochemistry research. Launched June 2003.

interplanetary spacecraft

. Mars probes

. Mars Express unmanned spacecraft

. space probes

. . Mars probes Mars Express

European Space Agency European space programs

Mars atmosphere

Mars exploration

Mars landing

Mars missions Mars surface

planetary geology

Mars Geoscience Climatology Orbiter

USE Mars Observer

#### Mars Global Surveyor

(added March 1999)

DEF Spacecraft and related mission designed to orbit Mars over a two year period and collect data on the surface morphology, topography, composition, gravity, atmospheric dynamics, and magnetic field. Launched November 1996.

UF Mars Orbiter Camera (MOC)

Mars Orbiter Laser Altimeter (MOLA)

MGS (spacecraft)

interplanetary spacecraft

. Mars probes

. . Mars Global Surveyor unmanned spacecraft

. space probes

. . Mars probes

. . Mars Global Surveyor

Mars atmosphere

Mars missions Mars Observer

Mars surface

Mars landing GS landing

. spacecraft landing

. . planetary landing

. Mars landing **AEPS** 

Mars Express

Mars landing sites Mars missions

Mars Pathfinder Mars sample return missions

soft landing Viking 1975 entry vehicle

Mars landing sites

(added February 2001)
DEF Areas on the Martian surface selected for spacecraft landing, or areas where space-

craft have actually landed. GS

sites

. landing sites
. . Mars landing sites Mars exploration

Mars landing

Mars missions Mars surface

site selection

Mars missions

(added February 1999)

GS space missions Mars missions

. . 2001 Mars Odyssey

manned Mars missions Mars sample return missions

Mars Surveyor 2001 Mission Earth-Mars trajectories

Mars Climate Orbiter

Mars exploration Mars Express

Mars Global Surveyor

Mars landing
Mars landing sites Mars Observer

Mars Pathfinder

Mars Polar Lander Mars probes

Mars Reconnaissance Orbiter Mars roving vehicles Mars surface samples

Mars Surveyor 98 Program

∞ missions Phoenix Mars Lander

return to Earth space flight

#### Mars Observer

DEF Spacecraft and related mission to study the geoscience and climate of Mars. Launched September 1992. Contact with the spacecraft was lost in August 1993, three days before the scheduled Mars orbit insertion.

UF Mars Geoscience Climatology Orbiter

MGCO GS

interplanetary spacecraft . Mars probes

Mars Observer

unmanned spacecraft . space probes

. . Mars probes

. Mars Observer

Mars Global Surveyor Mars missions

Mars Orbiter Camera (MOC) (added January 2004) USE Mars Global Surveyor

Mars Orbiter Laser Altimeter (MOLA) (added January 2004) USE Mars Global Surveyor

#### Mars Pathfinder

(added January 1996)

interplanetary spacecraft

. Mars probes

Mars Pathfinder

unmanned spacecraft

. space probes

. . Mars probes

Mars Pathfinder

exobiology landing sites Mars landing Mars missions parachute descent planetary geology

### Mars photographs

GS photographs

Mars photographs

photography

satellite-borne photography spaceborne photography

#### Mars Polar Lander

(added March 1999)

DEF One of two spacecraft comprising the Mars Surveyor 98 program; launched January 1999. After a soft landing near the Martian south pole, the Lander will search for near-surface ice and possible surface records of cyclic climate and possible surface records of cyclic climate change, and characterize physical processes key to the seasonal cycles of water, carbon dioxide and dust on Mars. Prior to landing, the Deep Space 2 microprobes will be released as part of a technology-validation mission related to multiple-lander spacecraft.

UF Mars Surveyor 98 Lander
GS interplanetary spacecraft

Mars probes

. Mars probes

Mars Polar Lander

unmanned spacecraft

. space probes

. . Mars probes

Mars Polar Lander

Mars atmosphere Mars Climate Orbiter Mars missions

Mars surface

Mars Surveyor 98 Program

### Mars probes

interplanetary spacecraft

Mars probes

. . Advanced Reconn Electric Spacecraft

. . Mariner 3 space probe

. . Mariner 4 space probe

Mariner 6 space probe . . Mariner 7 space probe

Mariner 8 space probe

Mariner 9 space probe

Mars 1 spacecraft

Mars 2 spacecraft

Mars 3 spacecraft

Mars 4 Spacecraft Mars 5 spacecraft

Mars 6 spacecraft

Mars 7 spacecraft

Mars Observer

Mars Pathfinder

. . Viking 1975 entry vehicle

. . Viking spacecraft

... Viking 1 spacecraft Viking lander 1

Viking orbiter 1

. . . Viking 2 spacecraft

Viking lander 2 Viking orbiter 2

. . . Viking lander spacecraft

Viking lander 1 Viking lander 2

... Viking orbiter spacecraft Viking orbiter 1

. . . . Viking orbiter 2

Viking orbiter 1975 Mars Climate Orbiter

Mars Express

Mars Global Surveyor

Mars Polar Lander

. . Mars Reconnaissance Orbiter

Nozomi Mars Orbiter

. . Phobos spacecraft

Phoenix Mars Lander Zond 2 space probe

unmanned spacecraft

. space probes

... Mars probes
... Advanced Reconn Electric

Spacecraft

Mariner 3 space probe Mariner 4 space probe

Mariner 6 space probe

Mariner 7 space probe

Mariner 8 space probe

Mariner 9 space probe

Mars 1 spacecraft

Mars 2 spacecraft

Mars 3 spacecraft Mars 4 Spacecraft

Mars 5 spacecraft

Mars 6 spacecraft

Mars 7 spacecraft

Mars Observer

Mars Pathfinder Viking 1975 entry vehicle

Viking spacecraft

. Viking 1 spacecraft
. . Viking lander 1

Viking orbiter 1

... Viking 2 spacecraft ... Viking lander 2

. Viking orbiter 2
Viking lander spacecraft

Viking lander 1
Viking lander 2

. Viking ratider 2
. Viking orbiter spacecraft
. Viking orbiter 1
. Viking orbiter 2
. Viking orbiter 1975
Mars Climate Orbiter

Mars Express Mars Global Surveyor

Mars Polar Lander

Mars Reconnaissance Orbiter

Nozomi Mars Orbiter

Phobos spacecraft

Phoenix Mars Lander

Zond 2 space probe

Mariner program Mars missions

Mars sample return missions

outer planets explorers

Venus probes

Voyager project Zond space probes

# Mars Reconnaissance Orbiter

(added August 2005)

DEF A spacecraft launched on August 12, 2005 to determine how long water existed on Mars by conducting surface and subsurface mapping. The Mars Reconnaissance Orbiter carries instruments for geological and meteorological observations from Martian orbit, and for spacecraft navigation and communication. After completion of its science mission, the spacecraft will provide data relay services between other Mars missions and Earth.

GS interplanetary spacecraft

. Mars probes

# ... Mars Reconnaissance Orbiter

unmanned spacecraft

. space probes

. . Mars probes

### Mars Reconnaissance Orbiter

extraterrestrial water

ground penetrating radar interplanetary communication

Mars (planet) Mars exploration

Mars missions

Mars surface planetary mapping

radar geology

soil mapping

Mars Rover Sample Return Mission

Mars sample return missions

# Mars roving vehicles

(added March 2003)

DEF Remote-, autonomous-, or humancontrolled ground vehicles designed for the exploration of the Martian surface.

GS surface vehicles

. roving vehicles

.. Mars roving vehicles

Marsokhod Mars roving vehicles

Mars exploration

Mars missions

Mars surface planetary surfaces research vehicles

# Mars sample return missions

(added March 1989)

vehicles

Mars Rover Sample Return Mission

space missions

. Mars missions

. Mars sample return missions . sample return missions . Mars sample return missions

Mars (planet)

Mars landing Mars probes

Mars surface samples

NASA space programs planetary protection

roving vehicles samples

space exploration

Mars satellites

GS celestial bodies . natural satellites

... Mars satellites

... Deimos ... Phobos

Mars surface

GS planetary surfaces

Mars surface 2001 Mars Odyssey

canals

dust storms Mars (planet)

Mars Climate Orbiter

Mars Express Mars Global Surveyor

Mars landing sites

Mars Polar Lander Mars Reconnaissance Orbiter

Mars roving vehicles

Mars Surveyor 98 Program Mars Surveyor 2001 Mission Mars volcanoes

meteorite craters Phoenix Mars Lander

planetary craters SNC meteorites

∞ surfaces terraforming topography

#### Mars surface samples

samples GS

. Mars surface samples assaying

chemical analysis

#### Mars Surveyor 98 Program

Mars missions Mars sample return missions Mars Surveyor 2001 Mission soil sampling specimens surfaces Viking lander 1 Viking lander 2

Mars Surveyor 98 Lander (added March 1999) Mars Polar Lander

Mars Surveyor 98 Orbiter (added March 1999)

USE Mars Climate Orbiter

### Mars Surveyor 98 Program

(added March 1999)

DEF Mars exploration program consisting of two mission spacecraft-- the Mars Climate Orbiter and the Mars Polar Lander. Two surface penetrating microprobes (part of the associated Deep Space 2 mission) for detecting water ice are also piggybacking on the Lander.

programs

- . NASA programs
- . . NASA space programs
- ... Mars Surveyor 98 Program
- . space programs
- . . NASA space programs
- . Mars Surveyor 98 Program

Mars atmosphere Mars Climate Orbiter

Mars missions Mars Polar Lander Mars surface

#### Mars Surveyor 2001 Mission

(added July 1999)

Mars exploration mission including an orbiter with a gamma ray spectrometer and a multispectral thermal imager, and a lander with an extensive set of instrumentation, a robotic arm, and the Marie Curie Rover. (In March 2000, the lander portion of the mission was cancelled; the orbiter mission was superceded by the 2001 Mars Odyssey mission.)

space missions GS

. Mars missions

# . Mars Surveyor 2001 Mission

2001 Mars Odyssey Mars environment Mars surface Mars surface samples NASA space programs

#### Mars volcanoes

DEF Volcanoes on the planet Mars. GS

geology

- . planetary geology
- . Mars volcanoes
- . volcanoes
- . Mars volcanoes

landforms

. volcanoes

. Mars volcanoes

basalt

calderas cones (volcanoes) effusives lava Mars (planet) Mars atmosphere Mars environment Mars surface mountains orography paleomagnetism petrology Rouse belts

marshes

USE marshlands

volcanology

#### marshlands

DEF Transitional land-water areas, covered at least part of the time by estuarine or coastal waters and characterized by aquatic and grasslike vegetation. Used for bogs, coastal marshlands, marshes, and swamps.

bogs

coastal marshlands

marshes swamps

GS land

. wetlands

. marshlands

RT bayous

Earth resources Earth surface

flats (landforms) muskegs

oceanography tidal flats

waterfowl

#### Marsokhod Mars roving vehicles

(added August 1995)

surface vehicles . roving vehicles

... Mars roving vehicles
... Marsokhod Mars roving

vehicles

RT Lunokhod lunar roving vehicles Mars exploration

planetary surfaces

∞ vehicles

#### martensite

austenite

hardening (materials)

heat treatment

iron alloys

martensitic stainless steels

microstructure

phase transformations

steels

#### martensitic stainless steels

alloys

- . iron alloys

... stainless steels

... martensitic stainless steels

austenitic stainless steels

maraging steels

martensite

### martensitic transformation

A phase transformation occurring in some metals and resulting in formation of martensite.

GS phase transformations

martensitic transformation

RT austenite

Martian meteorites (added March 1998)

USE SNC meteorites

# Martin aircraft

Martin aircraft GS

B-26 aircraft

B-57 aircraft

RT ∞ aircraft

#### martingales

DEF In game theory, a procedure for recouping one's losses in previous wagers by doubling or otherwise increasing the amount

RT decision theory game theory

∞ mathematics probability theory stochastic processes

Martinique GS landforms

- . islands
- . . West Indies
- . Martinique
- nations . France
- . . Martinique

#### RT Caribbean region

#### Maryland

GS nations

. United States

Maryland

Allegheny Plateau (US) Assateague Island (MD-VA)

Chesapeake Bay (US)

Delmarva Peninsula (DE-MD-VA) Potomac River Valley (MD-VA-WV)

Susquehanna River Basin

(MD-NY-PA)

#### mascons

DEF Large scale, high density lunar mass concentrations below ringed mare.

composition (property)

. concentration (composition)

. mascons

center of mass gravity anomalies

mass

weight (mass)

#### maser materials

(added June 1989) RT laser materials

masers ∞ materials

∞ materials science

#### maser outputs

GS output

maser outputs

RT ∞ coherence diffraction radiation laser outputs maser pumping pulse duration radiant flux density water masers

wavelengths

maser pumping (added June 1989) RT laser pumping maser outputs masers

optical pumping ∞ pumpina

maser resonators

USE masers

masers DEF Amplifiers or oscillators utilizing the principle of microwave amplification by stimulated emission of radiation.

maser resonators paramagnetic amplifiers UF

rasers stimulated emission devices

- . masers . . gas masers
- . . . hydrogen masers
- . . interstellar masers
- . . proton masers
- . . traveling wave masers

. . water masers

amplifiers atomic clocks

coherent electromagnetic radiation

cross relaxation diffraction radiation frequency standards krypton fluoride lasers

lasers maser materials

maser pumping microwave amplifiers molecular oscillators

resonators stimulated emission

transient oscillations two-wavelength lasers ultraviolet lasers

# masking

GS masking

. target masking mass to light ratios thrust-weight ratio audiometry meteoroid concentration missing mass (astrophysics) chemisorption mass spectra coverings moment distribution GS spectra photomasks moments of inertia . mass spectra pressure distribution energy spectra masks size distribution molecular spectra GS masks star distribution radiation spectra oxygen masks static loads RT chemical defense structural design criteria mass spectrometers protective clothing variable mass systems Instruments that are capable of separating ionized molecules of different mass to Masonite (trademark) mass drivers charge ratio and measuring the respective ion RT cellulose (added May 1989) currents. Used for ion spectrometers and retard-∞ construction materials DEF Electromagnetic devices for the linear ing ion mass spectrometers. trees (plants) acceleration of projectiles or payloads. Applica-UF ion spectrometers wood tions include orbital insertion and transfer, proretarding ion mass spectrometers GS measuring instruments pulsion systems, and hypervelocity acceleramasonry . spectrometers GS masonry RT ∞ accelerators . mass spectrometers . bricks electromagnetic acceleration RT chemical analysis cements gas analysis electromagnetic propulsion ceramics ion mobility spectroscopy launchers clavs magnetic levitation vehicles ion optics concretes moon-Earth trajectories microanalysis construction neutron activation analysis propulsion ∞ construction materials railgun accelerators qualitative analysis mortars (material) secondary ion mass spectrometry spacecraft propulsion structural members tiles mass spectrometry mass filters veneers USE mass spectroscopy USE fluid filters mass DFF A quantity characteristic of a body, mass spectroscopy mass flow UF mass spectrometry which relates the attraction of this body toward GS fluid flow another body. Since the mass of a body is not fixed in magnitude, all masses are referred to the standard kilogram, which is a lump of platinum. Head for law reserve. GS spectroscopy mass flow . mass spectroscopy Crocco-Lee theory . . inductively coupled plasma mass ∞ flow num. Used for low mass.

UF low mass spectrometry flow theory secondary ion mass spectrometry gas flow chemical analysis GS mass Kelvin-Helmholtz instability gas spectroscopy . center of mass kinetic theory magnetic spectroscopy . critical mass laminar flow nuclear radiation spectroscopy . galactic mass Lewis numbers spectroscopic analysis . missing mass (astrophysics) liquid flow vacuum spectroscopy . particle mass molecular interactions . . electron mass multiphase flow mass to light ratios . planetary mass pipe flow DFF The ratio of the mass of celestial body . stellar mass sediment transport to its luminosity. subcritical mass single-phase flow GS ratios center of gravity sliding . mass ratios de Broglie wavelengths slumping . . mass to light ratios astronomy solids flow mascons steady flow astrophysics mass to light ratios steam flow galactic radiation moments of inertia turbulent flow indexes (ratios) negative matter uniform flow luminosity relativistic effects unsteady flow luminous intensity weight (mass) mass mass flow factors mass distribution ∞ mass balance discharge coefficient RT (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN missing mass (astrophysics) flow coefficients radiant flux density heat transfer coefficients stellar luminosity balance heat transmission stellar mass mass distribution nozzle geometry material balance mass transfer variable mass systems mass flow rate RT ablation GS rates (per time) charge transfer mass distribution . mass flow rate convective flow distribution (property) convective flow convective heat transfer mass distribution diffusion coefficient energy transfer aerodynamic balance flow velocity gas transport aerodynamic stability pneumatic probes gas-liquid interactions angular distribution specific impulse heat transfer balance transient pressures Lewis numbers ballast (mass) porous boundary layer control charge distribution sediment transport cosmology mass ratios transferring counterbalances The ratios of the mass of the propellant transpiration density wave model charge of a rocket to the total mass of the rocket ∞ distribution when charged with the propellant. Massachusetts flux density GS ratios force distribution GS nations . mass ratios . United States galactic mass . . mass to light ratios

. . mixing ratios

metallicity

pressure ratio

structural weight

. . payload mass ratio . . propellant mass ratio

intergalactic media

interstellar matter

loading moments

loads (forces)

∞ mass balance

interplanetary medium

. . Massachusetts

massaging

GS

RT

therapy

. massaging fatigue (biology)

relaxation (physiology) signal to noise ratios low density materials magnetic materials matching maser materials adjusting materials handling DEF Massive topographic and structural comparison materials recovery features, especially in orogenic belts, commonly fitting ∞ materials science formed of rocks more rigid than those of their homology ∞ materials tests surroundings. These rocks may be protruding image resolution matrix materials bodies of basement rocks, consolidated during impedance matching mechanical properties earlier orogenies, or younger plutonic bodies. mismatch (electrical) metal matrix composites GS landforms pattern registration molding materials . massifs nonflammable materials Earth crust material absorption optical materials ∞ faults absorbents organic materials geological faults absorbers (equipment) paper (material) geology mountains  $\infty$  absorption phase change materials assimilation photoelastic materials bioavailability photoelectric materials massive compact halo objects extraction polymer matrix composites (added November 1999) hygroscopicity porous materials Objects, such as brown dwarfs, black radiation absorption pyrolytic materials holes, and massive planets, hypothesized to account for the dark matter in the halo of the sorption pyrophoric materials radioactive materials water treatment Milky Way. The signature of these objects is the radome materials occasional amplification of the light from exmaterial balance tragalactic stars by the gravitational lens effect.

UF MACHOs (astronomy)

GS colorial to all reactor materials balance GS refractory materials . material balance reinforcing materials celestial bodies GS . water balance reserves massive compact halo objects heat balance resources brown dwarf stars self lubricating materials dark matter stoichiometry semiconductors (materials) galactic halos sizing materials material removal (machining) gravitational lenses smart materials USE machining Milky Way Galaxy solids missing mass (astrophysics) spacecraft construction materials material strength red dwarf stars sponges (materials) USE mechanical properties strategic materials massive stars superhybrid materials ∞ materials (added July 1991) thermochromatic materials (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN celestial bodies thermoelectric materials thickeners (materials) . stars UF substances . massive stars three dimensional composites ablative materials black holes (astronomy) vitreous materials absorbents degenerate matter Vycor absorbers (materials) stellar mass acceptor materials supergiant stars aging (materials) materials handling supermassive stars aircraft construction materials GS materials handling . ground handling . propellant transfer airframe materials massively parallel processors amorphous materials (added December 1988) anisotropic media . remote handling MPP (computers) binary systems (materials) RT airfield surface movements data processing equipment binders (materials) ∞ automation . computers bitumens blowers . . digital computers boron reinforced materials canals ... parallel computers Borsic (tradename) cargo .... massively parallel processors
.... Connection Machine brittle materials cargo aircraft carbonaceous materials carts RT architecture (computers) composite materials chemical engineering parallel processing (computers) concrete structures chutes ∞ containers MAST shock tubes contaminants contingency USE magnetic annular shock tubes cork (materials) conveyors curl (materials) cranes dislocations (materials) delivery mastication donor materials dispensers UF chewina dredged materials disposal RT digesting electric furnaces distributing eating electrons ∞ distribution teeth epoxy matrix composites distributors fatigue (materials) dollies mastoids ferrimagnetic materials dumping anatomy ferroelastic materials ejection . head (anatomy) ferroelectric materials ejectors . . skull ferromagnetic materials emptying ... mastoids fissionable materials encapsulating . musculoskeletal system foams excavation . . bones foils (materials) feeders . . . skull fractures (materials) feeding (supplying) ... mastoids fluid flow glass RT cranium glassy carbon fuel pumps granular materials hauling heavy lift airships graphite-epoxy composites hazardous materials hoppers matched filters loading operations lunar logistics electromagnetic wave filters holes (electron deficiencies) . matched filters ∞ inorganic materials marking communication equipment insulation demodulators laminates ∞ materials laser materials mechanical engineering

lossless materials

mines (excavations)

| mooring   | RT bend tests                                      | Veneziano model                                      |
|---|--|--|
| packaging   | burst tests  | RT aircraft models                                   |
| pipelines   | Charpy impact test                                 | ∞ applications of mathematics                        |
| ∞ pumping   | chemical analysis                                  | astronomical models                                  |
| pumps   | compression tests                                  | asymptotic properties                                |
| railroad humping tests  | corrosion tests                                    | atmospheric models                                   |
| releasing   | destructive tests                                  | bond graphs  |
| rigging<br>services   | electrophotometry environmental tests              | broken symmetry chaos                                |
| siphons   | fatigue tests                                      | computational astrophysics                           |
| sprayers  | fiber pullout                                      | computational grids                                  |
| spreading   | fiber pushout                                      | computer systems simulation                          |
| stacks  | fuel tests   | computerized simulation                              |
| ∞ storage   | gas analysis                                       | continuum modeling                                   |
| tanks (containers)  | hardness tests                                     | control systems design                               |
| tractors  | high temperature tests                             | decision theory                                      |
| transferring  | impact tests                                       | dynamic models                                       |
| transportation  | lubricant tests                                    | dynamic programming                                  |
| trucks<br>unloading   | magnetic measurement<br>∞ materials                | dynamical systems<br>Euler-Bernoulli beams           |
| vacuum pumps  | ∞ materials materials                              | exhaust flow simulation                              |
| waste disposal  | mechanical properties                              | experiment design                                    |
| wharves   | metallography                                      | factorial design                                     |
|   | microanalysis                                      | flow charts  |
| materials recovery  | nanoindentation                                    | footprints   |
| SN (LIMITED TO TREATMENT OF A MATERIAL TO RECLAIM ONE OR MORE | neutron radiography                                | forecasting  |
| OF ITS COMPONENTS)  | nondestructive tests                               | functions (mathematics)                              |
| DEF The treatment of a material to reclaim                    | propellant tests                                   | game theory  |
| one or more of its components.                                | quality  | goodness of fit                                      |
| GS reclamation  | quality control                                    | graph theory   |
| . materials recovery  | radiography<br>specifications                      | inelastic stress                                     |
| gas recovery nuclear fuel reprocessing                        | static tests                                       | inventory controls<br>large eddy simulation          |
| solvolysis  | ∞ tests  | likelihood ratio                                     |
| water reclamation   | ultrasonic tests                                   | linear prediction                                    |
| RT ∞ absorption   | wear tests   | lofting  |
| by-products   | x ray analysis                                     | lumped parameter systems                             |
| centrifuging  | x ray spectroscopy                                 | method of moments                                    |
| crystallization   |  | ∞ missile simulators                                 |
| disposal  | mathematical analysis                              | model reference adaptive control                     |
| distillation  | USE applications of mathematics                    | Monte Carlo method                                   |
| extraction  | mathematical logic                                 | multiscale models                                    |
| filtration in situ resource utilization                       | GS mathematical logic                              | numerical weather forecasting ocean models           |
| ∞ materials   | . algorithms                                       | operations research                                  |
| ∞ precipitation   | backpropagation (artificial                        | outliers (statistics)                                |
| precipitation (chemistry)                                     | intelligence)                                      | parameter identification                             |
| ∞ processing  | genetic algorithms                                 | parameterization                                     |
| ∞ recovery  | greedy algorithms                                  | quantiles  |
| recycling   | parsing algorithms                                 | queueing theory                                      |
| refining  | simplex method                                     | regression coefficients                              |
| removal   | sorting algorithms . axioms                        | risk   |
| ∞ separation  | . formulas (mathematics)                           | robustness (mathematics)                             |
| waste management  | Bethe-Heitler formula                              | scheduling<br>similarity theorem                     |
| ∞ materials science   | . lattices (mathematics)                           | simulation   |
| SN (USE OF A MORE SPECIFIC TERM IS                            | Boolean algebra                                    | spacecraft models                                    |
| RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                    | Boolean functions                                  | spatial dependencies                                 |
| RT ceramics   | . predicate calculus                               | statistical distributions                            |
| laser cutting   | . set theory                                       | stochastic processes                                 |
| maser materials   | Borel sets   | system identification                                |
| ∞ materials   | equivalence<br>threshold logic                     | systems analysis                                     |
| metal foams   | RT branching (mathematics)                         | systems engineering                                  |
| plastics  | functions (mathematics)                            | systems simulation three dimensional models          |
| ∞ properties  | hypotheses   | trajectory analysis                                  |
| ∞ science   | induction (mathematics)                            | two dimensional bodies                               |
| materials selection   | instruction sets (computers)                       | two dimensional models                               |
| (added August 2001)   | ∞ logic  | validity   |
| DEF Process of choosing the most appro-                       | philosophy   | war games  |
| priate materials for a given application.                     | proving  |  |
| GS selection  | temporal logic<br>theorems                         | mathematical programming                             |
| . materials selection RT aircraft construction materials      | Turing machines                                    | SN (LIMITED TO MATHEMATICAL                          |
| airframe materials  | Venn diagrams                                      | ÒPTIMIZATION THEORYEXCLUDES<br>COMPUTER PROGRAMMING) |
| ∞ construction materials                                      | veriir diagrams                                    | GS optimization                                      |
| ∞ materials tests   | mathematical models                                | mathematical programming                             |
| optical materials   | GS models  | dynamic programming                                  |
| reactor materials   | mathematical models                                | linear programming                                   |
| spacecraft construction materials                             | analog simulation                                  | nonlinear programming                                |
| structural design   | BGK model  | quadratic programming<br>RT game theory              |
| structural weight   | biological models (mathematics) digital simulation | operations research                                  |
| weight reduction  | Mandelstam representation                          | ∞ programming  |
| materials testing reactors                                    | Petri nets   | simplex method                                       |
| USE nuclear research and test reactors                        | Thomas-Fermi model                                 | •  |
| m materials tests   | turbulence models                                  | mathematical tables                                  |
| ∞ materials tests     SN (USE OF A MORE SPECIFIC TERM IS      | Baldwin-Lomax turbulence model                     | GS tables (data)                                     |
| RECOMMENDEDCONSULT THE TERMS                                  | k-epsilon turbulence model                         | mathematical tables                                  |
| LISTED BELOW)   | k-omega turbulence model                           | RT information                                       |

numerical analysis switching circuits spline functions random numbers matrix stress calculation matrices (mathematics) USE matrix methods mathematics (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) differential algebra SN matrix theory matrix analysis RT operators (mathematics) algebra DEF The study of the logical relationships among abstract entities. These relationships are expressed in numbers, symbols, and signs and ∞ theories . vector spaces ... matrices (mathematics) matter (physics) . . . adjoints may also be applied to concrete instances such matter (physics) . . . canonical forms as measures and properties of shapes. The . dark matter eigenvalues main subdivisions include algebra, geometry, . degenerate matter . . . eigenvectors and analysis. . negative matter ... Hessian matrices RT algebra . rotating matter . . . Jordan form analysis (mathematics) . . rotating fluids . . . stiffness matrix axioms . . . rotating liquids arrays chiral dynamics bond graphs . . rotating plasmas calculus RT antimatter determinants current algebra condensed matter physics energy methods factor analysis duality theorem extraterrestrial matter formulas (mathematics) ∞ physics finite element method fractals Gaussian elimination functions (mathematics) Hermitian polynomial isoperimetric problem matter-antimatter propulsion geometry (added December 1988) inequalities DEF Spacecraft propulsion by use of linear equations information theory matter-antimatter annihilation reactions. linear programming GS propulsion integrals linear transformations Latin square method . spacecraft propulsion lumped parameter systems lattices (mathematics) . . matter-antimatter propulsion ∞ matrices annihilation reactions martingales method of moments morphology antimatter roots of equations number theory interplanetary flight simplex method numerical analysis interplanetary spacecraft simultaneous equations primitive equations interstellar travel subgroups negative matter propulsion ∞ principles U spin space probability theory nuclear propulsion Walsh function rings (mathematics) positron annihilation proton-antiproton interactions science series expansion rocket engines matrix analysis stars (mathematics) USE matrices (mathematics) MATTS (systems) statistical analysis multiple target trajectory systems superposition (mathematics) GS networks symbols matrix management . tracking networks
. . MATTS (systems) theorems DEF An organized approach to administration of a program by defining and structuring all abort trajectories airborne equipment Mathieu equation elements to form a single system with compo-USE Mathieu function nents united by interaction. angular correlation management
. matrix management GS target acquisition Mathieu function Mathieu equation allocations maturing GS analysis (mathematics) logistics USE growth . complex variables management methods . Mathieu function ∞ methodology Mauler missile functions (mathematics) operations research GS missiles Mathieu function productivity . antiaircraft missiles boundary value problems project planning . . Mauler missile differential equations scheduling . antimissile missiles eigenvectors tasks . . Mauler missile equations . surface to air missiles Hill determinant . Mauler missile orthogonal functions matrix materials single stage rocket vehicles DEF The ingredients used as binding solid propellant rocket engines Matra missile agents to produce composite materials. missiles GS bismaleimide Mauritania air to air missiles ceramic matrix composites GS nations Matra missile composite materials Mauritania RT solid propellant rocket engines debonding (materials) Africa epoxy matrix composites Mauritius (added February 1989) ∞ matrices fiber composites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) fiber-matrix interfaces functionally gradient materials GS landforms . islands composite materials epoxy matrix composites eutectic composites laminates Mauritius metal matrix composites nations polymer matrix composites Mauritius ∞ grids Africa reinforcing materials ∞ imbeddings lattices (mathematics) resin matrix composites Indian Ocean resin transfer molding matrices (circuits) Maverick missiles matrices (mathematics) GS missiles metal matrix composites

matrix methods

SN

UF

GS

(LIMITED TO METHODS FOR STRUCTURAL ANALYSIS) matrix stress calculation

structural analysis

. matrix methods

∞ methodology

NASTRAN

equilibrium methods

. air to surface missiles

. . Maverick missiles

analysis (mathematics)

real variables

Max Holste MH-262 aircraft

USE MH-262 aircraft

maxima

GS

#### 576

monotectic alloys

matrices (circuits)

GS

circuits

∞ matrices

logic circuits

polymer matrix composites

matrices (circuits)

| extremum values  | viscoelasticity   | DC 3 aircraft   |
|--|---|---|
| maxima   | viscous flow  | DC 7 aircraft   |
| RT apexes  | viscous fluids  | DC 8 aircraft   |
| calculus of variations   | Maria III Balkana a Tanaka Karaka   | DC 9 aircraft   |
| cusps (mathematics)  | Maxwell-Boltzmann density function  | DC 10 aircraft  |
| minima<br>optimization   | UF Maxwellian distribution (density) GS functions (mathematics)   | PD-808 aircraft   |
| ∞ peaks  | . Maxwell-Boltzmann density   | X-3 aircraft  |
| penalty function   | function  | . F-18 aircraft   |
| range (extremes)   | statistical analysis  | . Mcdonnell aircraft C-9 aircraft   |
| zenith   | Maxwell-Boltzmann density   | DC 10 aircraft  |
|  | function  | F-4 aircraft  |
| maximum entropy method   | RT density distribution   | F-101 aircraft  |
| DEF Procedure used in estimating high resolution power spectra from short data   | kinetic theory<br>probability theory  | . MD 11 aircraft  |
| lengths.   | statistical mechanics   | . MD 80 aircraft  |
| GS entropy (statistics)  | Statistical mechanics   | . X-36 aircraft   |
| . maximum entropy method   | Maxwellian distribution (density)   | RT ∞ aircraft   |
| spectrum analysis  | USE Maxwell-Boltzmann density   | Boeing aircraft   |
| . maximum entropy method   | function  |   |
| RT distribution functions  | Maywell Mahr method   | McLaurin series   |
| entropy<br>Fourier transformation  | Maxwell-Mohr method RT deflection   | USE MacLaurin series  |
| information theory   | ∞ equilibrium   | ool madeadim doned  |
| ∞ methodology  | ∞ methodology   |   |
| power spectra  | static deformation  | Mcleod gages  |
| signal processing  | trusses   | GS measuring instruments  |
| signal to noise ratios   |   | . pressure gages  |
| statistical analysis   | Mayer problem   | . vacuum gages  |
| time series analysis   | RT ∞ condensation   | Mcleod gages  |
| maximum likelihood estimates   | critical point<br>Gibbs free energy   | vacuum apparatus  |
| RT confidence limits   | ∞ molecular physics   | . vacuum gages  |
| Cramer-Rao bounds  | ∞ problems  | <b>Mcleod gages</b><br>RT ionization gages  |
| forecasting  | supersaturation   | RT ionization gages<br>Knudsen gages  |
| goodness of fit  |   | Pirani gages  |
| likelihood ratio   | maypole antennas  | pressure measurement  |
| parameter identification   | DEF A class of antennas which use the   | 1   |
| predictions  | deployable reflector concept for large space<br>systems applications.   |   |
| reliability<br>risk  | GS antennas   | McMurdo sound   |
| system identification  | . maypole antennas  | GS regions  |
| System Identification  | RT antenna design   | . polar regions   |
| maximum principle  | large space structures  | Antarctic regions   |
| RT complex variables   | space erectable structures  | McMurdo sound   |
|  |   |   |
| differential equations   | are and the armitiment  | . remote regions  |
| elliptic differential equations  | maze learning   | Antarctic regions   |
| elliptic differential equations<br>harmonic functions  | GS learning   | Antarctic regions <b>McMurdo sound</b>  |
| elliptic differential equations<br>harmonic functions<br>pontryagin principle  | GS learning<br>. <b>maze learning</b>   | Antarctic regions   |
| elliptic differential equations<br>harmonic functions  | GS learning   | Antarctic regions<br><b>McMurdo sound</b><br>sounds (topographic features)  |
| elliptic differential equations<br>harmonic functions<br>pontryagin principle  | GS learning<br>. <b>maze learning</b>   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions   |
| elliptic differential equations<br>harmonic functions<br>pontryagin principle<br>real variables  | GS learning . maze learning RT problem solving  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received. GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barrier-  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received. GS frequenciesmaximum usable frequency   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junc-   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received. GS frequencies maximum usable frequency RT frequency assignment  | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions.  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received. GS frequenciesmaximum usable frequency RT frequency assignment frequency reuse   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received. GS frequencies maximum usable frequency RT frequency assignment  | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions   | Antarctic regions McMurdo sound sounds (topographic features) McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies  maximum usable frequency  RT frequency assignment frequency reuse high frequencies very high frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received. GS frequenciesmaximum usable frequency RT frequency assignment frequency reuse high frequencies very high frequencies  Maxwell bodies  | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barrier-metal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers ∞ barriers  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994)  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  barriers junction transistors   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies  . maximum usable frequency  RT frequency assignment frequency reuse high frequencies very high frequencies  Waxwell bodies  RT classical mechanics continuum mechanics           | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barrier-metal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers ∞ barriers  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994)  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies  maximum usable frequency  RT frequency assignment frequency reuse high frequencies very high frequencies  Maxwell bodies  RT classical mechanics continuum mechanics  Hookes law | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ∞ barriers junction transistors solid state devices   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  WD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft jet aircraft . MD 11 aircraft . MD 11 aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies  maximum usable frequency  RT frequency assignment frequency reuse high frequencies very high frequencies  Maxwell bodies  RT classical mechanics continuum mechanics  Hookes law | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ∞ barriers junction transistors solid state devices   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barrier-metal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  □ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . Mcdonnell aircraft C-9 aircraft DC 10 aircraft  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . Mcdonnell aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  WD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft . MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft  |
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| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . Mcdonnell aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  WD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft . MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft MD 11 aircraft  |
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| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . Mcdonnell aircraft . C-9 aircraft . C-9 aircraft . F-4 aircraft . F-4 aircraft . F-101 aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft igt aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft transport aircraft transport aircraft . MD 11 aircraft transport aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft . MD 11 aircraft  |
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| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barrier- metal layers. Used for metal-barrier-metal junc- tions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ∞ barriers  junction transistors  solid state devices  Mcdonnell aircraft . GS McDonnell Douglas aircraft . DC 10 aircraft . F-4 aircraft . F-101 aircraft RT ∞ aircraft  McDonnell Douglas aircraft GS McDonnell Douglas aircraft CGS McDonnell Douglas aircraft RT ∞ aircraft Douglas aircraft . C-17 aircraft . Douglas aircraft . Douglas aircraft . Douglas aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft transport aircraft . MD 11 aircraft RT ∞ aircraft RT ∞ aircraft MCD 30 aircraft (added October 1994)   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  USE Genie rocket vehicle  MBM junctions DEF Diode devices using metal-barrier- metal layers. Used for metal-barrier-metal junc- tions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  □ barrier layers  □ barriers     junction transistors     solid state devices  Mcdonnell aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft transport aircraft transport aircraft RT ∞ aircraft (added October 1994) GS commercial aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  USE Genie rocket vehicle  MBM junctions  DEF Diode devices using metal-barrier- metal layers. Used for metal-barrier-metal junc- tions.  UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions  RT barrier layers  □ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft . F-101 aircraft RT □ aircraft  McDonnell Douglas aircraft GS McDonnell Douglas aircraft . C-17 aircraft . Douglas aircraft . Douglas aircraft . A-1 aircraft . A-3 aircraft . A-3 aircraft   | . Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft RT ⇒ aircraft  McDonnell Douglas aircraft GS McDonnell Douglas aircraft . C-17 aircraft . C-17 aircraft . Douglas aircraft . A-1 aircraft . A-3 aircraft . A-3 aircraft . A-4 aircraft . A-4 aircraft . A-4 aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft iet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft transport aircraft . MD 11 aircraft RT ∞ aircraft RT ∞ aircraft (added October 1994) GS commercial aircraft . MD 80 aircraft . MD 10 aircraft . MD 11 aircraft   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . DC 10 aircraft . F-4 aircraft . F-101 aircraft RT ⇒ aircraft  McDonnell Douglas aircraft  GS McDonnell Douglas aircraft . C-17 aircraft . Douglas aircraft . A-1 aircraft . A-3 aircraft . A-4 aircraft . A-4 aircraft . B-66 aircraft  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft iet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft transport aircraft . MD 11 aircraft RT ∞ aircraft  MT ND 11 aircraft RT ∞ aircraft . MD 30 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft . MD 80 aircraft   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ⇒ barriers junction transistors solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft RT ⇒ aircraft  McDonnell Douglas aircraft GS McDonnell Douglas aircraft . C-17 aircraft . C-17 aircraft . Douglas aircraft . A-1 aircraft . A-3 aircraft . A-3 aircraft . A-4 aircraft . A-4 aircraft . A-4 aircraft   | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft iet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft transport aircraft . MD 11 aircraft RT ∞ aircraft RT ∞ aircraft (added October 1994) GS commercial aircraft . MD 80 aircraft . MD 10 aircraft . MD 11 aircraft   |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barrier- metal layers. Used for metal-barrier-metal junc- tions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  □ barrier layers  □ barrier layers  □ barriers  □ junction transistors  solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft  □ DC 10 aircraft  □ F-4 aircraft  □ F-101 aircraft RT □ aircraft  GS McDonnell Douglas aircraft  C-17 aircraft  □ Douglas aircraft  □ Douglas aircraft  □ Douglas aircraft  □ A-1 aircraft  □ A-3 aircraft  □ A-4 aircraft  □ A-4 aircraft  □ A-6 aircraft  □ B-66 aircraft  □ C-9 aircraft  □ C-9 aircraft  □ C-9 aircraft  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft jet aircraft . MD 11 aircraft McDonnell Douglas aircraft . MD 11 aircraft rassenger aircraft . MD 11 aircraft RT ∞ aircraft RT ∞ aircraft (added October 1994) GS commercial aircraft . MD 80 aircraft (added October 1994) GS commercial aircraft . MD 80 aircraft (added October 1994) GS commercial aircraft . MD 80 aircraft (added October 1994) GS commercial aircraft . MD 80 aircraft DS 80 aircraft JE 80 AIRCRAFT |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions  RT barrier layers  □ barriers  □ junction transistors solid state devices  Mcdonnell aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft . F-4 aircraft RT □ aircraft  C-17 aircraft . C-17 aircraft . A-1 aircraft . A-3 aircraft . A-4 aircraft . B-66 aircraft . C-94 aircraft . C-94 aircraft . C-954 aircraft . C-54  aircraft . C-518 aircraft  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft iet aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft transport aircraft RT ∞ aircraft  MD 80 aircraft . MD 80 aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barrier- metal layers. Used for metal-barrier-metal junc- tions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions RT barrier layers  ∞ barriers  junction transistors  solid state devices  Mcdonnell aircraft GS McDonnell Douglas aircraft . C-9 aircraft . F-4 aircraft . F-101 aircraft RT ∞ aircraft  McDonnell Douglas aircraft RT ∞ aircraft . C-17 aircraft . A-1 aircraft . A-3 aircraft . A-4 aircraft . A-4 aircraft . A-6 aircraft . B-66 aircraft . C-9 aircraft . C-9 aircraft . C-9 aircraft . C-47 aircraft . C-9 aircraft . C-47 aircraft . C-9 aircraft . C-9 aircraft . C-9 aircraft . C-18 aircraft . C-118 aircraft . C-118 aircraft . C-118 aircraft . C-124 aircraft . C-124 aircraft | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft iet aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft RT ∞ aircraft RT ∞ aircraft . MD 80 aircraft transport aircraft transport aircraft  |
| elliptic differential equations harmonic functions pontryagin principle real variables  maximum usable frequency  DEF For a given distance from a transmitter, the highest frequency at which sky waves can be received.  GS frequencies   | GS learning . maze learning RT problem solving  MB-1 rocket vehicle USE Genie rocket vehicle  WBM junctions DEF Diode devices using metal-barriermetal layers. Used for metal-barrier-metal junctions. UF metal-barrier-metal junctions GS semiconductor junctions . MBM junctions  RT barrier layers  □ barriers  □ junction transistors solid state devices  Mcdonnell aircraft . C-9 aircraft . DC 10 aircraft . F-4 aircraft . F-4 aircraft RT □ aircraft  C-17 aircraft . C-17 aircraft . A-1 aircraft . A-3 aircraft . A-4 aircraft . B-66 aircraft . C-94 aircraft . C-94 aircraft . C-954 aircraft . C-54  aircraft . C-518 aircraft  | Antarctic regions McMurdo sound sounds (topographic features) . McMurdo sound Southern Hemisphere . Antarctic regions McMurdo sound RT Ross ice shelf  MCR reactors USE military compact reactors  MD 11 aircraft (added October 1994) UF DC 11 aircraft GS commercial aircraft . MD 11 aircraft iet aircraft McDonnell Douglas aircraft . MD 11 aircraft passenger aircraft . MD 11 aircraft transport aircraft RT ∞ aircraft  MD 80 aircraft . MD 80 aircraft  |

|          | B0.0 1 6                                   |                 |  |        |  |
|----------|--|-----------------|--|--------|--|
|          | DC 9 aircraft                              |                 | J integral   |        | radioactive age determination              |
|          |  |                 | Lebesgue theorem   |        | rangefinding                               |
| MDA      |  |                 | numerical integration  |        | signal measurement                         |
| USE      | multiple docking adapters                  |                 | Runge-Kutta method   |        | size determination                         |
|          | 00 1 6                                     |                 | Stieltjes integral   |        | sounding                                   |
|          | 60 aircraft                                |                 | weighting functions  |        | sphygmography                              |
| USE      | P-160 aircraft                             | RT              | Fourier analysis   |        | standards                                  |
| ME D 0   | .00 ' "                                    |                 |  |        | strain measurement                         |
|          | 08 aircraft                                | measur          | e theory   |        | synoptic measurement                       |
| USE      | P-308 aircraft                             |                 | measure and integration                                      |        | temperature measurement                    |
| ,        |  | 002             | ououro una miogranon   |        | thrust measurement                         |
| meadov   |  | ∞ measu         | romant   |        | time measurement                           |
| USE      | grasslands                                 | ∞ illeasu<br>SN |  |        | trajectory measurement                     |
|          |  | SIN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |        | ultrasonic densimeters                     |
|          | (physical chemistry)                       |                 | LISTED BELOW)  |        | units of measurement                       |
|          | ed February 1998)                          | DEF             | The technical action required to assign                      |        |  |
| USE      | embedded atom method                       | values (        | numbers) to represent certain properties                     |        | velocity measurement vibration measurement |
|          |  |                 | outes, using rules based on scientific                       |        |  |
| mean     |  |                 | sed for determination, measuring, and                        |        | weight measurement                         |
| GS       | average                                    | quantiz         |  |        | wind measurement                           |
|          | . mean                                     | UF              | determination  |        |  |
|          | moments                                    | 01              |  | measu  | res  |
|          | . distribution moments                     |                 | measuring  | SN     | (USE OF A MORE SPECIFIC TERM IS            |
|          | mean                                       | DT              | quantization   |        | RECOMMENDEDCONSULT THE TERMS               |
| RT       | median (statistics)                        | RT              | acceleration measurement                                     | RT     | LISTED BELOW)<br>criteria                  |
|          | mode (statistics)                          |                 | accuracy   |        |  |
|          | normality                                  |                 | acoustic measurement   |        | ∞ measurement                              |
|          | quality control                            |                 | airborne range and orbit                                     |        | standards                                  |
|          | range (extremes)                           |                 | determination  |        |  |
|          | <b>0</b> ( )                               |                 | aircraft instruments   | measui |  |
|          | statistical analysis                       |                 | analog data  | USE    | measurement                                |
|          | variance (statistics)                      |                 | astrometry   |        |  |
|          |  |                 | audiometry   | measu  | ring instruments                           |
|          | ree path                                   |                 | chemical analysis  | UF     | fluxmeters                                 |
| DEF      | Of any particle, the average distance      |                 | confidence limits  | O1     | gages                                      |
| that a p | article travels between successive colli-  |                 | consistency  |        | meters                                     |
| sions w  | ith the other particles of an ensemble.    |                 | •  |        |  |
| Specific | ally, the average distance traveled by     |                 | counting   | 00     | rate meters                                |
|          | lecules of a perfect gas between con-      | c               | ∘ data   | GS     | measuring instruments                      |
|          | e collisions with one another. For any     |                 | definition   |        | . accelerometers                           |
|          | the reciprocal of the cross section per    |                 | densimeters  |        | strain gage accelerometers                 |
|          | ume for that process.                      |                 | density measurement  |        | . ammeters                                 |
|          |  |                 | depth measurement  |        | micromilliammeters                         |
| RT       | collision parameters                       |                 | detection  |        | thermoelement ammeters                     |
| ٥        | o cross sections                           |                 | dilatometry  |        | . analyzers                                |
|          | Knudsen flow                               |                 | dimensional measurement                                      |        | engine analyzers                           |
|          | particle collisions                        |                 | Downrange Antimissile Measurement                            |        | signal analyzers                           |
|          | particle motion                            |                 | Program  |        | . anemometers                              |
| 0        | ∘ paths                                    |                 | downrange measurement  |        | drag force anemometers                     |
|          | scattering                                 |                 |  |        | hot-film anemometers                       |
|          | vacuum                                     |                 | drag measurement   |        |  |
|          |  |                 | Earth terminal measurement system                            |        | hot-wire anemometers                       |
| mean s   | quare values                               |                 | electrical measurement                                       |        | laser anemometers                          |
| DEF      | In statistics, values representing the     |                 | electromagnetic measurement                                  |        | sonic anemometers                          |
|          | of the sum of the squares of the devia-    |                 | electromagnetic noise measurement                            |        | . balloon-borne instruments                |
|          | om the mean value.                         |                 | ellipsometry   |        | . bathymeters                              |
| GS       | analysis (mathematics)                     |                 | estimating   |        | . burettes                                 |
| 00       | . numerical analysis                       |                 | evaluation   |        | . calorimeters                             |
|          | approximation                              |                 | examination  |        | bomb calorimeters                          |
|          | ···  |                 | flow measurement   |        | drop calorimeters                          |
| RT       | mean square values algorithms              |                 | frequency measurement  |        | flame calorimeters                         |
| KI       |  |                 | friction measurement   |        | . comparators                              |
|          | error analysis                             |                 | gamma ray absorptiometry                                     |        | . conductivity meters                      |
|          | least squares method                       |                 | geometry   |        | electrical conductivity meters             |
|          | inner hertungen follower                   |                 | gravimetry   |        | . coulometers                              |
|          | me between failures                        |                 | •  |        |  |
| USE      | MTBF                                       |                 | heat measurement high alt target and background              |        | . counters radiation counters              |
|          |  |                 |  |        | Cerenkov counters                          |
| meand    |  |                 | measurement  |        |  |
|          | Freely developing sinuous curves,          |                 | humidity measurement   |        | electron counters                          |
|          | loops, turns, or windings in the courses   |                 | identifying  |        | Geiger counters                            |
|          | ams. They are produced by mature           |                 | in situ measurement  |        | neutron counters                           |
| streams  | s swinging from side to side as they flow  |                 | International System of Units                                |        | neutron spectrometers                      |
| across   | flood plains or shift course laterally to- |                 | latitude measurement   |        | particle telescopes                        |
| ward th  | e convex side of an original curve.        |                 | longitude measurement  |        | proportional counters                      |
| RT       | open channel flow                          |                 | macroscopic equations  |        | quantum counters                           |
|          | rapids                                     |                 | magnetic measurement   |        | scintillation counters                     |
|          | river basins                               | c               | ∘ measures   |        | spark chambers                             |
|          | rivers                                     |                 | measuring instruments  |        | . deformeters                              |
|          | streams                                    |                 | mechanical measurement                                       |        | . densimeters                              |
|          | topography                                 |                 | metrology  |        | ultrasonic densimeters                     |
|          |  |                 | monitors   |        | . densitometers                            |
|          | valleys                                    |                 | noise measurement  |        | microdensitometers                         |
| moco     | o and intogration                          |                 |  |        |  |
|          | re and integration                         |                 | nonintrusive measurement                                     |        | . distance measuring equipment             |
| UF       | integration (real variables)               |                 | optical measurement  |        | altimeters                                 |
|          | measure theory                             |                 | optometry  |        | laser altimeters                           |
| _        | Riemann integral                           |                 | photographic measurement                                     |        | radio altimeters                           |
| GS       | analysis (mathematics)                     |                 | pneumography   |        | geodimeters                                |
|          | . real variables                           |                 | precipitation measurement                                    |        | range finders                              |
|          | measure and integration                    |                 | pressure measurement   |        | optical range finders                      |
|          | binary integration                         |                 | proving  |        | laser range finders                        |
|          | Borel sets                                 |                 | pupillometry   |        | stadimeters                                |
|          | functional integration                     |                 | radar measurement  |        | tellurometers                              |
|          | integral calculus                          |                 | radiation measurement  |        | . dynamometers                             |
|          | micyrai calculus                           |                 | radiation measurement  |        | . aynamometers                             |

#### measuring instruments

photodetectors

electrometers ... microwave radiometers moisture meters . . . . Advanced Microwave Sounding . electron probes engine monitoring instruments . . hygrometers Unit . . . . passive L-band radiometers ergometers . psychrometers . eudiometers monochromators .... pressure modulator radiometers . . . . spectroradiometers extensometers noise meters field intensity meters .... MISR (radiometry) . ohmmeters optical measuring instruments flame probes ... MODIS (radiometry) . flight recorders . . cathetometers . . . solar spectrometers . flight load recorders diffractometers . . . spectroheliographs Ebert spectrometers spectrophotometers . flowmeters ellipsometers infrared spectrophotometers . . gas meters etalons ultraviolet spectrophotometers . . hot-wire flowmeters geodimeters ultraviolet detectors . rheometers ultraviolet spectrometers haploscopes . force vector recorders infrared spectrometers high dispersion spectrographs . fuel gages .... Total Ozone Mapping filter wheel infrared spectrometers capacitive fuel gages light scattering meters Spectrometer galvanometers microdensitometers ... ultraviolet spectrophotometers . Gerdien condensers . . x ray detectors . bolometers . . nephelometers . goniometers oculometers . . photogoniometers . . radiogoniometers . . optical pyrometers . . Ebert spectrometers optical range finders
. laser range finders
photogoniometers electrostatic probes . gravimeters Fabry-Perot spectrometers gravity gradiometers . . hodoscopes . . infrared instruments photometers . heliometers infrared detectors . FLIR detectors pyroheliometers electrophotometers ultraviolet spectrometers
. high dispersion spectrographs
. Total Ozone Mapping hydrometers . hypsometers infrared radiometers . Advanced Very High impedance probes . radio frequency impedance probes Spectrometer Resolution Radiometer quantum well infrared indicating instruments infrared scanners photodetectors .... visible infrared spin scan . approach indicators astrolabes ... ultraviolet spectrophotometers radiometer attitude indicators . . . . quantum well infrared polarimeters . gyro horizons reflectometers photodetectors cloud height indicators . microwave reflectometers infrared interferometers compasses refractometers ... infrared spectrometers . gyrocompasses sextants . . . filter wheel infrared magnetic compasses spectrophotometers spectrometers . solar compasses infrared spectrophotometers ... infrared spectrophotometers . . photometers flow direction indicators ultraviolet spectrophotometers . wind vanes . . . electrophotometers position indicators theodolites ultraviolet spectrometers . plan position indicators . . cinetheodolites . . . high dispersion spectrographs radio direction finders transmissometers . . . . Total Ozone Mapping . spacecraft position indicators oscillographs Spectrometer smoke detectors oxygen analyzers quantum well infrared photodetectors
. ultraviolet spectrophotometers speed indicators penetrometers tachometers plasma probes . . weight indicators . electrostatic probes . . radiation counters microbalances polariscopes Cerenkov counters . strain gage balances . Senarmont polariscopes electron counters . thermobalances potentiometers (instruments) Geiger counters . interferometers . pressure gages neutron counters . neutron spectrometers particle telescopes . barometers etalons Fabry-Perot interferometers . . manometers infrared interferometers
Mach-Zehnder interferometers proportional counters osmometers piezoelectric gages quantum counters scintillation counters Michelson interferometers piezometers microwave interferometers phase switching interferometers radio interferometers vacuum gages spark chambers ionization gages . radiation detectors alphatrons dosimeters threshold detectors (dosimeters) ion probes Bayard-Alpert ionization gages ion traps (instrumentation) Penning gages Golay detector cells laser doppler velocimeters Philips ionization gages silicon radiation detectors Ivsimeters Knudsen gages . . riometers . magnetic probes Mcleod gages . ratiometers . magnetometers Pirani gages . resonance probes . variometers profilometers . respirometers . mechanograms protractors . satellite-borne instruments . meteorological instruments . radiation measuring instruments . . Advanced Microwave Sounding . tribometers actinometers Unit . . barometers ... infrared spectrometers . . Advanced Very High Resolution cloud height indicators . . . . filter wheel infrared Radiometer . . dropsondes spectrometers . . AMPS (satellite payload) radiometeorographs . . . pyranometers MISR (radiometry) . . Total Ozone Mapping Spectrometer . . radiosondes . . . radiometers ionosondes . Dicke radiometers . scatterometers . . rawinsondes . . . . infrared detectors . shock measuring instruments ozonesondes FLIR detectors . sondes . rain gages
. weather data recorders . . infrared radiometers . . dropsondes . . . Advanced Very High Judi-Dart rocket . . wind vanes Resolution Radiometer . . radiosondes . micrometers . infrared scanners . . . ionosondes . . . visible infrared spin scan . microwave probes . . rawinsondes . . ozonesondes . . microwave plasma probes radiometer . . . . quantum well infrared . spectrometers

. . Advanced Microwave Sounding

. elastometers

. microwave sensors

. . Ebert spectrometers recording instruments vibration tests . . Fabry-Perot spectrometers remote sensors . . gamma ray spectrometers mechanical fingers rocket-borne instruments imaging spectrometers Ronchi test USE end effectors satellite instruments . . infrared spectrometers mechanical hands sensors ... filter wheel infrared spectrometers USE end effectors sodar . . laser spectrometers sound detecting and ranging . . mass spectrometers mechanical impedance spacecraft instruments . . microwave spectrometers impedance synchroscopes . . neutron spectrometers mechanical impedance telemetry . . Solar Backscatter UV attenuation ∞ test equipment Spectrometer damping transducers . . solar spectrometers friction ultrasonic scanners . . spectroheliographs impedance measurement Venturi tubes . . time of flight spectrometers Wheatstone bridges . . ultraviolet spectrometers mechanical measurement wind tunnel calibration (MEASUREMENT OF MECHANICAL PROPERTIES, QUANTITIES OR CONDITIONS) ... high dispersion spectrographs ... Total Ozone Mapping Spectrometer mecamylamine mechanical measurement . . Alpha Magnetic Spectrometer GS organic compounds . displacement measurement . . x ray spectrometers . sputtering gages . amines . drag measurement . . mecamylamine . flow measurement . strain gages particle image velocimetry terpenes . temperature measuring instruments . friction measurement mecamylamine . . bathythermographs . pressure measurement . . optical pyrometers . . pneumatic probes . stress measurement mechanical devices . x ray stress measurement . . pyrometers . thrust measurement RT cams clamps . velocity measurement . thermocouple pyrometers particle image velocimetry
 wind velocity measurement
 vibration measurement clips temperature probes clutches .. thermometers ∞ devices . resistance thermometers ∞ equipment . wind measurement . tensiometers holders . wind velocity measurement RT accelerometers acoustic measurement . tensometers jigs . thermal conductivity gages levers . tiltmeters linkages machine tools deformeters . time measuring instruments density measurement ∞ mechanism depth measurement ... atomic clocks mechanization dynamometers autonomous spacecraft clocks tools extensometers . . . chronometers flowmeters . timing devices ∞ measurement . titrimeters mechanical drawings strain gages . torquemeters USE engineering drawings tensiometers . turbulence meters torquemeters . vibration meters weight indicators . . seismographs mechanical drives rotary drives mechanical drives . lunar seismographs UF mechanical oscillators GS oscillators
mechanical oscillators . viscometers GS . magnetic tape transports . propeller drive . voltmeters . . millivoltmeters . . pendulums wattmeters . . helicopter propeller drive . . gyroscopic pendulums aircraft instruments transmissions (machine elements) electric choppers clutches counter-rotating wheels automatic control harmonic oscillators automatic test equipment reciprocation bioinstrumentation coupling resonant vibration calibrating circumsolar telescopes control moment gyroscopes controllers couplings vibration ∞ drives mechanical properties
UF material strength
meteorite compression tests ∞ gear gear teeth detectors gears strength of materials drag measurement magnetoelectric media duochromators mechanical properties power transmission electric bridges shafts (machine elements) brittleness electrical measurement vehicle wheels . bulk modulus flight instruments wind tunnel drives . cold strength forest fire detection windmills (windpowered machines) . compressibility Fraunhofer line discriminators . compressive strength **IMBLMS** . creep properties instrument receivers mechanical engineering . . creep rupture strength instrument transmitters DEF Branch of engineering dealing with the . . shear creep . . steady state creep . . tensile creep ∞ instruments design, development and operation of machines International System of Units including mechanical devices and prime movlaboratory equipment ers, vehicles, machine tools, and manufacturing . creep strength landing instruments machinery. . dimensional stability large aperture seismic array RT aeronautical engineering . . structural stability local scientific survey module aerospace engineering . shell stability lunar rangefinding ∞ engineering . ductility ∞ measurement fluid flow . earthquake resistance metrology flywheels . elastic properties . . aeroelasticity microinstrumentation furnaces heat transfer . . . aeroservoelasticity monitors navigation instruments machine tools . aerothermoelasticity ∞ probes ∞ machinery . . anelasticity . . elastoplasticity propellant actuated instruments maintenance . . hydroelasticity radio probing materials handling . hypoelasticity radio telemetry stress analysis rapid ballistics identification thermodynamics . . magnetostriction

|      | modulus of elasticity           | 0      | o properties   |          | Wigner coefficient                      |
|------|---------------------------------|--------|--|----------|---|
|      | . dynamic modulus of elasticity |        | radiation effects  |          |   |
|      | photoelasticity                 |        | reliability  | mechai   | nism                                    |
|      | . photoviscoelasticity          | c      | ∘ rigidity   | SN       | (USE OF A MORE SPECIFIC TERM IS         |
|      | proportional limit              |        | roughness  |          | RECOMMENDEDCONSULT THE TERMS            |
|      | thermoelasticity                |        | ruggedness   | DT.      | LISTED BELOW)                           |
|      | . aerothermoelasticity          |        | shear strain   | KI o     | ∘ machinery<br>mechanical devices       |
|      | viscoelasticity                 |        | shear stress   | _        |   |
|      | •                               |        | shock resistance   |          | mechanics (physics)                     |
|      | •                               |        | solid mechanics  | ~        | o methodology                           |
|      | . thermoviscoelasticity         |        | specifications   |          |   |
|      | ferroelasticity                 |        | specimen geometry  | mechar   | nization                                |
| . е  | lectrostriction                 |        | strain rate  | RT ∞     | automation                              |
| . fa | atigue life                     |        | strength   |          | data processing                         |
| . fi | ber strength                    | · ·    |  |          | depersonalization                       |
| . fl | exibility                       |        | stress concentration   | ~        | machinery                               |
|      | racture strength                |        | stresses   |          | man machine systems                     |
|      | flexural strength               |        | structural failure   |          | mechanical devices                      |
|      | ardness                         |        | supercooling   |          | operations                              |
|      | microhardness                   |        | surface defects  |          | · ·                                     |
|      |                                 |        | surface properties   |          | systems engineering                     |
|      | . Knoop hardness                |        | surface roughness  |          | tooling                                 |
|      | Rockwell hardness               |        | tearing  |          | tools                                   |
|      | Vickers hardness                |        | temperature inversions                                       |          |   |
|      | igh strength                    |        | textures   | mechar   | nograms                                 |
| . ir | npact strength                  |        | tolerances (mechanics)                                       | GS       | measuring instruments                   |
| . m  | nalleability                    |        | triaxial stresses  |          | . mechanograms                          |
| . m  | nodular ratios                  |        | triboluminescence  |          | medical equipment                       |
| . n  | otch strength                   |        |  |          | . mechanograms                          |
|      | iezoelectricity                 |        | weathering   |          |   |
|      | lastic properties               |        |  |          | recording instruments                   |
|      | elastoplasticity                |        |  |          | mechanograms                            |
|      | photoplasticity                 |        | nical resonance  | RT       | muscular function                       |
|      |                                 | USE    | resonant vibration   |          |   |
|      | superplasticity                 |        |  | mechar   | noreceptors                             |
|      | thermoplasticity                |        |  | DEF      | Nerve endings that react to mechani-    |
|      | viscoplasticity                 | mechai | nical shock  |          | uli, such as touch, tension, and accel- |
|      | yield point                     | UF     | jarring  | eration. | an, each ac teach, teneren, and accer   |
| . P  | Poisson ratio                   | GS     |  | GS       | anatomy                                 |
| . re | esilience                       | GS     | mechanical shock   | 00       |   |
| . S  | et                              | рт     | . hydraulic shock  |          | . sense organs                          |
|      | hear properties                 | RT     | acceleration (physics)                                       |          | mechanoreceptors                        |
|      | shear strength                  |        | high acceleration  |          | receptors (physiology)                  |
|      | tiffness                        |        | hypervelocity impact   |          | . mechanoreceptors                      |
|      | tress cycles                    |        | impact   | RT       | sensitometry                            |
|      |                                 |        | impact acceleration  |          |   |
|      | tress ratio                     | c      | ∘ shock  | meclizii | ne                                      |
|      | tress relaxation                |        | shock absorbers  | GS       | halogen compounds                       |
|      | ensile properties               |        | shock resistance   | 00       | . chlorine compounds                    |
|      | tensile strength                |        | shock spectra  |          | meclizine                               |
| . th | nermal resistance               |        | shock waves  |          |   |
| . to | oughness                        |        | vibration  |          | organic compounds                       |
|      | notch sensitivity               |        | VIDIALIOIT   |          | . cyclic compounds                      |
| . w  | vear resistance                 |        |  |          | . heterocyclic compounds                |
|      | abrasion resistance             |        |  |          | azines                                  |
|      | veld strength                   | mechai | nical twinning   |          | meclizine                               |
|      | ield strength                   | GS     | twinning   |          | pyrazines                               |
|      | load carrying capacity          |        | . mechanical twinning  |          | . azines                                |
|      |                                 | RT     | crystal defects  |          | meclizine                               |
|      | microyield strength             |        | crystal growth   |          |   |
|      | oustic properties               |        | crystal structure  | madia.   |   |
|      | ing (materials)                 |        | work hardening   | media    | (EVOLUBED COMMUNICATION                 |
|      | isotropy                        |        | work riardorning   | SN       | (EXCLUDES COMMUNICATION TECHNIQUES)     |
| bu   | oyancy                          |        |  | GS       | media                                   |
| cas  | st alloys                       |        | -i (-bi)   | 00       | . anisotropic media                     |
| CO   | efficients                      |        | nics (physics)   |          | anisotropic fluids                      |
| CO   | mpressing                       | SN     | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |          |   |
| CO   | mpression loads                 |        | LISTED BELOW)  |          | . elastic media                         |
|      | formation                       | RT     | celestial mechanics  |          | . intergalactic media                   |
|      | rability                        |        | classical mechanics  |          | interplanetary medium                   |
|      | ongation                        |        | continuum mechanics  |          | interplanetary dust                     |
|      | igue (materials)                |        | o dynamics   |          | meteoroid dust clouds                   |
|      | ritic stainless steels          | Č      | electromechanics   |          | zodiacal dust                           |
|      |                                 |        |  |          | interplanetary gas                      |
|      | er orientation                  |        | flight mechanics   | RT ∝     | o channels                              |
|      | tness                           |        | fluid dynamics   |          |   |
|      | gh resistance                   |        | fluid mechanics  | modian   | (statistics)                            |
| hy:  | steresis                        |        | fracture mechanics   |          |   |
| im   | pedance                         |        | gas dynamics   | RT       | average                                 |
| int  | erfacial tension                | c      | hydraulics   |          | distribution moments                    |
| inte | erference fit                   |        | hydrodynamics  |          | errors                                  |
| int  | ernal friction                  |        | kinematics   |          | mean                                    |
|      | otropy                          |        | kinetics   |          | mode (statistics)                       |
|      | ntegral                         |        | loads (forces)   |          | normality                               |
|      | v resistance                    | _      | • mechanism  |          | norms                                   |
|      | aterials                        | c      |  |          | quality control                         |
|      |                                 |        | megamechanics  |          | statistical analysis                    |
|      | aterials tests                  |        | micromechanics   | 00       | tests                                   |
|      | etallurgy                       |        | orbital mechanics  |          | <del>-</del>                            |
|      | cromechanics                    | c      | ∘ physics  |          | ti                                      |
|      | croporosity                     |        | quantum mechanics  | medias   |   |
| na   | noindentation                   | c      | o science  | RT       | septum                                  |
| pe   | eling                           |        | solid mechanics  |          | tissues (biology)                       |
|      | rmeability                      |        | statics  |          |   |
|      | ysical properties               |        | statistical mechanics  | mediati  | on                                      |
|      | opellant properties             |        | virial theorem   | RT       | labor                                   |
| Pit  | oponant proportion              |        |  | 13.1     | 10001                                   |

|         | management planning                  |           | social psychiatry  |          | trusses                                  |
|---------|--------------------------------------|-----------|--|----------|--|
| modical | electronics                          |           | . radiology  | Majaan   | or offert                                |
|         | echoencephalography                  |           | . radiopathology   |          | er effect<br>diamagnetism                |
| 111     | electrocardiography                  |           | . sports medicine  | USL      | superconductivity                        |
|         | electroencephalography               |           | . surgery  |          | superconductivity                        |
|         | electromyography                     |           | labyrinthectomy . symptomology                               | meitnei  | rium                                     |
| 00      | electronics                          |           | ,  |          | ed May 1998)                             |
| -       | electroplethysmography               |           | . urology . veterinary medicine                              |          | chemical elements                        |
|         | electroretinography                  | DT        | biology  | 00       | . meitnerium                             |
|         | telemedicine                         | KI «      |  | RT       | hassium                                  |
|         | teleffiedicifie                      |           | diagnosis  | IXI      | Hassiani                                 |
| medical | equipment                            |           | diseases<br>first aid  | melami   | ne                                       |
|         | medical equipment                    |           | first aid<br>medicine  | GS       | organic compounds                        |
|         | . artificial cardiac pacemaker       | •         | optometry  |          | . amines                                 |
|         | . artificial heart valves            |           |  |          | melamine                                 |
|         | . blood pumps                        |           | pneumothorax<br>psychopharmacology                           | RT       | resins                                   |
|         | . cardiotachometers                  |           | radiation therapy  | 131      | Toomio                                   |
|         | . endoscopes                         |           | science  | melanir  | n  |
|         | . mechanograms                       | ∞         | telemedicine   | GS       | biopolymers                              |
|         | . prosthetic devices                 |           | transfusion  |          | . proteins                               |
|         | artificial ears                      |           | transiusion  |          | melanin                                  |
|         | . respirators                        | modical   | services   |          | organic compounds                        |
|         | . stethoscopes                       |           |  |          | . proteins                               |
|         | . stretchers                         | GS        | services   |          | melanin                                  |
|         | . surgical instruments               | DT        | . medical services   |          | pigments                                 |
|         | . syringes                           | RT        | ambulances   |          | . melanin                                |
|         | . tourniquets                        |           | first aid  | RT       | dopa                                     |
|         | . x ray apparatus                    |           | intravenous procedures                                       | 131      | skin (anatomy)                           |
|         | lixiscopes                           |           | mobile quarantine facility                                   |          | our (anatomy)                            |
|         | x ray tubes                          |           | public health  | melano   | idin                                     |
| RT      | •                                    |           | telemedicine   | GS       | acids                                    |
| IXI     | cardiography<br>dentistry            |           |  | 00       | . amino acids                            |
|         | diagnosis                            | ∞ medicir |  |          | melanoidin                               |
|         | echoencephalography                  | SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |          | organic compounds                        |
|         | electroencephalography               |           | LISTED BELOW)  |          | . amino acids                            |
|         | emergency life sustaining systems    | RT        | aerospace medicine   |          | melanoidin                               |
|         |                                      |           | clinical medicine  |          | metanoidin                               |
|         | equipment first aid                  |           | drugs  | melatoi  | nin                                      |
|         | fluoroscopy                          |           | medical equipment  |          | ed August 2004)                          |
|         | hospitals                            |           | medical personnel  |          | A biogenic amine that is found in an     |
|         | IMBLMS                               |           | medical science  |          | nd plants. In mammals, melatonin i       |
|         | medicine                             |           | neuropsychiatry  |          | ed by the pineal gland. Its secretion in |
| 00      |                                      |           | pharmacology   |          | in darkness and decreases during ex      |
|         | microtomy                            |           | psychopharmacology   |          | to light. Melatonin is implicated in the |
|         | mobile quarantine facility           |           | radiobiology   |          | on of sleep, mood, and reproduction      |
|         | telemedicine                         |           | radiology  |          | nin is also an effective antioxidant.    |
|         | therapy                              |           | veterinary medicine  | GS       | organic compounds                        |
|         | nereennel                            |           | ,  | 00       | . amines                                 |
|         | personnel                            | Mediter   | ranean Sea   |          | tryptamines                              |
| GS      | personnel                            | GS        | seas   |          | melatonin                                |
|         | . medical personnel                  |           | . Mediterranean Sea  |          | . cyclic compounds                       |
|         | flight nurses                        |           | Adriatic Sea   |          | heterocyclic compounds                   |
|         | physicians                           | RT        | Cyprus   |          | indoles                                  |
|         | surgeons                             |           | Gibraltar  |          | tryptamines                              |
| DT      | flight surgeons                      |           | Malta  |          | melatonin                                |
| KI ∞    | medicine                             |           | Rhone Delta (France)   | рT       | antioxidants                             |
|         | nhanamana                            |           | Sicily   | KI       | hormones                                 |
|         | phenomena<br>diving (underwater)     |           | •  |          | moods                                    |
| ΚI      | phenomenology                        | medium    | scale integration  |          |  |
|         | priendinendiogy                      | GS        | circuits   |          | photoperiod                              |
| modical | science                              |           | . integrated circuits  |          | pineal gland<br>secretions               |
|         | medical science                      |           | medium scale integration                                     |          | sleep                                    |
| 63      | . aerospace medicine                 |           | microelectronics   |          | Sieep                                    |
|         | aviation psychology                  |           | . medium scale integration                                   | Mellin t | ransforms                                |
|         | space psychology                     | RT        | electronic packaging   |          | functions (mathematics)                  |
|         | . anesthesiology                     |           | large scale integration                                      | 00       | . Mellin transforms                      |
|         | . cardiology                         |           | molecular electronics  | рT       | integral equations                       |
|         | . clinical medicine                  |           | printed circuits   | 131      | kernel functions                         |
|         | . dentistry                          |           |  |          | Refrict fulletions                       |
|         | . dermatology                        | meeting   | S  | melt sp  | ainning                                  |
|         | . endocrinology                      |           | conferences  |          | A material process by which polymer      |
|         | . epidemiology                       | 002       |  |          | s nylon and polyesters and glass are     |
|         | . geriatrics                         | megalo    | nolises  |          | to permit extrusion into fibers through  |
|         | . gynecology                         |           | cities   | spinner  |  |
|         | . histology                          | 111       | communities  | GS       |  |
|         | . immunology                         |           | demography   | 00       | . melt spinning                          |
|         | . neurology                          |           | industrial areas   |          | melts (crystal growth)                   |
|         | . nuclear medicine                   |           | regional planning  |          | . melt spinning                          |
|         | radiobiology                         |           | residential areas  |          | solidification                           |
|         | . radiobiology<br>. ophthalmology    |           | rural areas  |          | . melt spinning                          |
|         | . orthopedics                        |           | suburban areas   | RT ~     | ∞ metallurgy                             |
|         | otolaryngology                       |           | urban development  | IX I °   | phase transformations                    |
|         |                                      |           | urban transportation   |          | phase transionnations                    |
|         | . otology<br>. pathology             |           | arban nanoponanon  | melting  | ī  |
|         |                                      | magam     | echanics   | UF       | l<br>remelting                           |
|         | . human pathology . pharmacology     | -         |  | UF       | thawing                                  |
|         | . psychopharmacology                 |           | large space structures mechanics (physics)                   | GS       | phase transformations                    |
|         | . psychopharmacology<br>. psychiatry | ~         | structural analysis  | GS       | . melting                                |
|         | . neuropsychiatry                    |           | structural analysis<br>structural engineering                |          | . arc melting                            |
|         | nauropayorilatry                     |           | on actural engineening                                       |          | are menny                                |

. . fusion (melting) neural nets video disks . . levitation melting . . vacuum melting membrane analogy MEMS (electromechanical devices) zone melting membrane structures (added October 1998) RT ablation USE microelectromechanical systems structural analysis aufeis (ice) burnthrough (failure) DEF Shell structures, often pressurized, that do not take wall bending or compression loads. Used for membrane analogy.

UF membrane analogy. mendelevium casting GS chemical elements coal liquefaction . actinide series containerless melts . . transuranium elements cooling . . . mendelevium defrosting GS membranes . nuclides deicing drop transfer . membrane structures . . isotopes . skin (structural member) . . . radioactive isotopes extraction . . . . transuranium elements structural members freezing . membrane structures ... mendelevium furnaces . skin (structural member) metals heat of fusion diaphragms (mechanics) . actinide series heating metal shells . . transuranium elements ice prevention impact melts perforated shells . . . mendelevium Scotchlite (trademark) induction heating injection molding ∞ sheets meningitis shells (structural forms) GS diseases liquefaction structures . infectious diseases liquid metals thin walled shells . meningitis liquid-solid interfaces melts (crystal growth) webs (supports) acquired immunodeficiency syndrome bacterial diseases metal cutting membrane theory viral diseases metal foams USE structural analysis  $\infty$  metallurgy menisci molds membranes GS liquid surfaces phase change materials webs (membranes) UF menisci pseudopotentials GS membranes Bond number separation cell membranes (biology) curves (geometry) liquid-gas mixtures smelting choroid membranes solar furnaces conjunctiva liquid-solid interfaces spiking epicardium liquid-vapor interfaces ion exchange membrane electrolytes ∞ surfaces melting points . membrane structures DEF liquidus and solidus coincide at an . . skin (structural member) menstruation invariant point. In a phase diagram, the tem-. peritoneum females RT perature at which the pleurae UF freezing points
GS thermodynamic properties ovaries RT biofilms physiology ∞ diaphragms thermophysical properties diaphragms (mechanics) melting points mental health high temperature tests GS health jet membrane process liquid phases . mental health ∞ layers liquidus human performance osmosis low temperature tests intelligence reverse osmosis phase diagrams neuropsychiatry septum reaction bonding psychotherapy ∞ sheets solid solutions Rorschach tests shells (structural forms) solid state schizophrenia skin (anatomy) solidification ∞ webs solidified gases mental performance webs (sheets) specific heat RT abilities webs (supports) temperature cognitive psychology transition temperature consciousness memory (LIMITED TO SENTIENT ORGANISMS--EXCLUDES COMPUTER STORAGE DEVICES AND PLASTIC human performance melts (crystal growth) hypernea DEF Molten substances from which crystals inspiration MEMORY) education are formed during the cooling or solidifying intellect RT process. intelligence learning mnemonics melts (crystal growth) intelligence tests . containerless melts irrationality recognition . impact melts retention (psychology) melt spinning operator performance atomic structure ∞ performance crystal growth memory (computers) psychomotor performance The component of a computer, control crystallization stress (psychology) system, guidance system, instrumented satelfloat zones workloads (psychophysiology) lite, or the like, designed to provide ready access Marangoni convection to data or instructions previously recorded so as melting mental stress to make them bear upon an immediate problem, semiconductors (materials) USE stress (psychology) such as the guidance of a physical object, or the MEM (excursion module) analysis and reduction of data. menthol GS memory (computers) USE Mars Excursion Module organic compounds . random access memory . . core storage . cyclic compounds membership functions . . cyclic hydrocarbons (added December 2000) associative memory . menthol DEF Characteristic functions of a fuzzy set, distributed memory which assign a value indicating the degree of membership for each element in a universal set. . optical memory (data storage) . hydrocarbons architecture (computers) . . cyclic hydrocarbons chips (memory devices) functions (mathematics) . . menthol GS . membership functions computer design terpenes computer storage devices computers . menthol RT control systems design

hole burning

magnetic disks

fuzzy sets fuzzy systems

machine learning

meprobamate

GS esters

. meprobamate

mercaptan USE thiols

mercapto compounds USE thiols

#### Mercator projection

DEF An equatorial, cylindrical, conformal map projection derived by mathematical analysis (not geometrically) in which the equator is represented by a straight line true to scale. The meridians are represented by parallel straight lines perpendicular to the equator and equally spaced according to their distance apart at the equator. The parallels are represented by straight lines perpendicular to the meridians and parallel with (and the same length as) the equator. The parallels are spaced so as to achieve conformality, their spacing increasing rapidly with their distance from the equator so that at all places the degrees of latitude and longitude have the same ratio to each other as to the sphere itself. This results in greater distortion of distances, areas, and shapes in the polar regions (above 80 deg. latitude). The scale is increasingly poleward as the secant of the latitude. Because any line of constant direction (azimuth) on the sphere is truly represented on the projection by a straight line, the Mercator projection is of great value in navigation. It is used for hydrographic charts, and also to show geographic variations of some physical property (such as magnetic declination) or to plot trajectories of Earth satellites in oblique orbits. It is named after Gerhardus Mercator (1512-1594), a Flemish mathematician and geographer, whose world map of 1569 used this projection.

GS

geometry

Euclidean geometry

. . analytic geometry

. Mercator projection

. . projective geometry

... Mercator projection

RT maps

#### Mercure aircraft

GS transport aircraft

. short haul aircraft . Mercure aircraft

RT ∞ aircraft cargo aircraft passenger aircraft

#### mercury (metal)

UF liquid mercury

GS chemical elements

. mercury (metal)

. . mercury isotopes

. mercury vapor

liquids

. liquid metals

. . mercury (metal)

. . . mercury isotopes

. . . mercury vapor

metals

. liquid metals

.. mercury (metal)

. . . mercury isotopes

. . . mercury vapor

. transition metals

. . mercury (metal)

. . . mercury isotopes

. . mercury vapor RT heavy metals

### Mercury (planet)

celestial bodies

. planets

. . terrestrial planets

. Mercury (planet)

Mercury atmosphere Mercury surface MESSENGER (spacecraft) planetary craters

# mercury alloys

GS alloys

. mercury alloys

. . mercury amalgams

mercury amalgams

amalgams

GS alloys

. mercury alloys

. . mercury amalgams

#### mercury arcs

GS electric current

. electric discharges

. . electric arcs

. . mercury arcs

arc lamps

metallic plasmas rectifiers

#### Mercury atmosphere

GS environments

. extraterrestrial environments

. . planetary environments

... planetary atmospheres

.. Mercury atmosphere Mercury (planet)

Mercury surface planetary meteorology

#### mercury cadmium tellurides

DEF Compounds of tellurium exhibiting photovoltaic characteristics and used for photodiodes and photodetectors in the 3 to 12 micrometer wavelengths at cryogenic temperatures. Used for cadmium mercury tellurides.

cadmium mercury tellurides

chalcogenides

. tellurides

. . mercury tellurides

. . mercury cadmium tellurides

mercury compounds . mercury tellurides

. mercury cadmium tellurides

tellurium compounds

tellurides

. . mercury tellurides

. mercury cadmium tellurides

infrared detectors

photoconductivity photoconductors

photodiodes

### mercury compounds

GS mercury compounds

. mercury oxides

. mercury tellurides

. mercury cadmium tellurides

RT ∞ chemical compounds

∞ Group 2B compounds

∞ metal compounds

#### Mercury flights

GS space flight

. manned space flight

... Mercury flights

. Mercury MA-1 flight . Mercury MA-2 flight . Mercury MA-3 flight

Mercury MA-4 flight

Mercury MA-5 flight Mercury MA-6 flight

Mercury MA-7 flight

Mercury MA-8 flight

Mercury MA-9 flight

Mercury MR-1 flight

Mercury MR-2 flight

Mercury MR-3 flight

. Mercury MR-4 flight

Atlas launch vehicles manned spacecraft

space capsules

mercury ion engines DEF Machines providing thrust by expelling accelerated or high velocity mercury ions and often using energy provided by nuclear reactors.

engines

. rocket engines

. . electric rocket engines

. . . electrostatic engines . . . . ion engines

.... mercury ion engines

RT nuclear propulsion nuclear rocket engines plasma engines

mercury isotopes

GS chemical elements

. mercury (metal)

... mercury isotopes

. nuclides

. . isotopes

. mercury isotopes

. liquid metals

. . mercury (metal)

.. mercury isotopes

metals

. liquid metals

. . mercury (metal)

. mercury isotopes

. transition metals

. . mercury (metal)

... mercury isotopes

### mercury lamps

GS lighting equipment

. Iuminaires

. mercury lamps

light sources phosphors sterilization

xenon lamps

Mercury MA-1 flight

GS space flight

manned space flight

. . Mercury flights

. Mercury MA-1 flight

RT Atlas launch vehicles

Mercury MA-2 flight

UF MA-2 mission GS

space flight . manned space flight

. Mercury flights
. Mercury MA-2 flight

Atlas launch vehicles

# Faith 7 Mercury MA-3 flight

MA-3 flight

space flight

. manned space flight
. Mercury flights

. Mercury MA-3 flight

RT Atlas launch vehicles

Mercury MA-4 flight UF MA-4 flight

GS

space flight
. manned space flight

. Mercury flights . Mercury MA-4 flight

Atlas launch vehicles

Mercury MA-5 flight MA-5 flight

GS space flight

. manned space flight

. . Mercury flights . Mercury MA-5 flight Atlas launch vehicles

# Mercury MA-6 flight

GS space flight

. manned space flight

. . Mercury flights Mercury MA-6 flight

Atlas launch vehicles Friendship 7

Mercury MA-7 flight

GS space flight

Aurora 7

. manned space flight . . Mercury flights Mercury MA-7 flight Atlas launch vehicles

Mercury MA-8 flight

UF MA-8 flight

GS space flight . . Friendship 7 RT Florida . manned space flight . . SIGMA 7 . . Mercury flights merwinite Mercury MA-8 flight calcium compounds Mercury surface Atlas launch vehicles . merwinite DFF The surface of the planet Mercury. SIGMA 7 magnesium compounds GS planetary surfaces . merwinite Mercury surface Mercury MA-9 flight minerals RT extraterrestrial environments MA-9 flight . merwinite Mercury (planet) GS space flight silicon compounds Mercury atmosphere . manned space flight . silicates MESSÉNGER (spacecraft) . . Mercury flights . . merwinite planetary craters . . Mercury MA-9 flight satellite surfaces Atlas launch vehicles solar system Isolated, nearly level landmasses terrestrial planets standing distinctly above the surrounding coun-Mercury MR-1 flight try, bounded by abrupt or steeply sloping erosion mercury tellurides GS space flight scarps on all sides, and capped by layers of GS chalcogenides resistant, nearly horizontal rock (often lava). . manned space flight . tellurides Less strictly, very broad, flat topped, usually . . Mercury flights . . mercury tellurides . . . Mercury MR-1 flight isolated hills or mountains of moderate height . . . mercury cadmium tellurides bounded on at least one side by a steep cliff or mercury compounds Mercury MR-2 flight slope and representing an erosion remnant. . mercury tellurides Mesas are similar to, but have more summit GS space flight . mercury cadmium tellurides . manned space flight area than buttes and are common topographical tellurium compounds . . Mercury flights features in arid and semiarid regions of the . tellurides ... Mercury MR-2 flight United States. Mesas are often considered . . mercury tellurides broad terraces or comparatively flat plateaus ... mercury cadmium tellurides Mercury MR-3 flight along river valleys. They are marked by an MR-3 flight abrupt slope or escarpment on one side. mercury vapor
GS chemical elements space flight GS landforms . terraces (landforms) . manned space flight . . plateaus . . Mercury flights . mercury (metal) . . . Mercury MR-3 flight . mercury vapor ... mesas liquids . . buttes . liquid metals Mercury MR-4 flight RT flats (landforms) GS space flight . . mercury (metal) highlands . mercury vapor . manned space flight mountains metals . . Mercury flights ... Mercury MR-4 flight . liquid metals **MESFETs** . . mercury (metal) USE field effect transistors mercury oxides .. mercury vapor GS chalcogenides . metal vapors mesh . oxides mercury vapor RT fabrics .. metal oxides . transition metals ∞ grids . . mercury oxides . . mercury (metal) strands mercury compounds ... mercury vapor webbing . mercury oxides vapors ∞ webs . metal vapors . mercury vapor mesh (mathematics) Mercury project GS programs cesium vapor USE computational grids . NASA programs sodium vapor . . NASA space programs mesh generation (mathematics) . . Mercury project USE grid generation (mathematics) merging routines . projects computer programs . Mercury project mesh refinement (mathematics) merging routines . space programs (added August 2003) RT ∞ routines . . NASA space programs USE grid refinement (mathematics) Mercury project meridional flow Apollo project Atlas launch vehicles mesitylene GS fluid flow GS organic compounds . gas flow Gemini project . hydrocarbons . . air flow . . mesitylene Little Joe 2 launch vehicle . . . air currents manned space flight . . meridional flow manned spacecraft mesometeorology RT atmospheric circulation meteorology GS flow geometry Mercury spacecraft . mesometeorology wind (meteorology) GS manned spacecraft aeronomy wind direction Mercury spacecraft lower atmosphere zonal flow (meteorology) . . Aurora 7 micrometeorology . . Faith 7 Merlin (helicopter) .. Friendship 7 meson resonance (added April 1997) . . SIGMA 7 GS particles USE EH-101 helicopter reentry vehicles . elementary particles . recoverable spacecraft . . bosons meromorphic functions .. Mercury spacecraft . . . mesons GS analysis (mathematics) . . . Aurora 7 . . . . meson resonance . complex variables . . . Faith 7 . . . . . X mesons ... meromorphic functions ... Friendship 7 . . fermions . . . elliptic functions . . . meson resonance . SIGMA 7 . . rational functions soft landing spacecraft . X mesons functions (mathematics) . Mercury spacecraft . . hadrons meromorphic functions . . . mesons . . Aurora 7 . . elliptic functions . . Faith 7 . . . . meson resonance Friendship 7 . . rational functions . X mesons . . SIGMA 7 . nuclear particles Merritt Island (FL) space capsules . . bosons Mercury spacecraft GS landforms . . . mesons

. islands

.. Merritt Island (FL)

. . Aurora 7

. . Faith 7

.... meson resonance

.... X mesons

resonance

. meson resonance

. X mesons RT barvons hyperons

#### meson-meson interactions

particle interactions

elementary particle interactions

meson-meson interactions

electromagnetic interactions

∞ interactions

#### meson-nucleon interactions

particle interactions

elementary particle interactions

meson-nucleon interactions

charged particles ∞ interactions Yukawa potential

In the classification of subatomic particles by mass, the second lightest of such particles. Their mass is intermediate between that of the lepton and the nucleon.

GS particles

. elementary particles

. . bosons

. . . mesons

eta-mesons

. . . . hyperons

. xi hyperons kaons

. . . . meson resonance . . . . . X mesons

. . . . muons

... omega-mesons

. . . . pions

. . . . vector mesons

. . . . . rho-mesons

. sigma-mesons

. . hadrons

. . . mesons

eta-mesons ... hyperons

. xi hyperons

. . . . kaons

. . . . meson resonance

. X mesons

. . . . muons

. . . . omega-mesons . . . . pions

.... vector mesons

. . . . . rho-mesons

. sigma-mesons

. nuclear particles

. . bosons

... mesons

. . . . eta-mesons

. . . . hyperons

. xi hyperons

kaons

. . . . meson resonance

. . . . . X mesons

. . . . muons . . . . omega-mesons

. . . . pions

... vector mesons . . . . . rho-mesons

. . . . sigma-mesons

baryons boson fields

charged particles corpuscular radiation

cosmic rays

aluons leptons

meson-nucleon interactions

muonium

Pomeranchuk theorem

strangeness

#### mesopause

586

(ALTITUDE APPROXIMATELY 90 KM)
The base of the inversion at the top of the mesosphere, usually found at 80 to 85 kilometers.

GS Earth atmosphere

. middle atmosphere

. . mesosphere . . mesopause

RT stratopause

mesophiles

microorganisms

psychrophiles thermophiles

mesoscale phenomena

DEF Meteorological phenomena extending approximately one to a hundred kilometers (mesoscale cloud patterns, for example).

GS mesoscale phenomena

jet streams (meteorology)

arc clouds meteorology phenomenology wind (meteorology)

mesosphere

SN

(ALTITUDE RANGE BETWEEN APPROXIMATELY 45 AND 90 KM) The atmospheric shell, in which temperature generally decreases with heights, extending from the stratopause at about 50 to 55 kilometers to the mesopause at about 80 to 85 kilometers.

GS Earth atmosphere

. middle atmosphere

.. mesosphere

. . mesopause

chemosphere

Earth ionosphere

homosphere

Solar Mesosphere Explorer

stratopause

#### Mesozoic Era

(added June 1989)

DEF An era of geologic time, from the end of the Paleozoic Era to the beginning of the Cenozoic Era, or from about 225 to about 65 million years ago.

GS Mesozoic Era

Cretaceous Period

Cretaceous-Tertiary boundary

geochronology paleontology Paleozoic Éra

message processing

In communication operations, the acceptance, preparation for transmission, receipt and/or delivery of a series of words or symbols intended for conveying information.

automatic repeat request communicating communication cryptography information flow messages

packet transmission

∞ processing semantics signal processing signal transmission

### messages

communicating

symbols

. information dissemination

. messages

automatic repeat request communication theory information theory

intelligibility

message processing

semantics sentences

signal transmission signals

syllables symbols vocoders

words (language)

### MESSENGER (spacecraft)

(added October 2004)

DEF Spacecraft and related mission designed to study the structure, geochemistry, and magnetic fields of the planet Mercury. The science payload consists of the Mercury Dual Imaging System (MDIS), the Gamma-Ray and Neutron Spectrometer, the Mercury Laser Altimeter, the Mercury Atmospheric and Surface Composition Spectrometer, the Energetic Particle and Plasma Spectrometer, and a magnetometer, radio science instrument, and x-ray spectrometer. MESSENGER (MErcury Surface, Space ENvironment, Geochemistry, and Ranging) was launched August 2004.

interplanetary spacecraft
. MESSENGER (spacecraft)

unmanned spacecraft

. space probes

MESSENGER (spacecraft)

Mercury (planet) Mercury surface planetary geology planetary magnetic fields space exploration space missions

messenger RNA

USE ribonucleic acids

Messerschmitt ME P-160 aircraft

USE P-160 aircraft

Messerschmitt ME P-308 aircraft

USE P-308 aircraft

metabolic diseases

GS diseases . metabolic diseases

metabolism

metabolic wastes

GS wastes

. metabolic wastes

. . human wastes

. . . feces . . urine

activated sludge

air pollution carbon dioxide

composting environment effects

environment pollution

environmental surveys expired air

liquid wastes

manures

metabolites organic wastes (fuel conversion)

pollution

sewage

sewers

solid wastes waste disposal

metabolism DEF The sum of all physical and chemical processes by which living organized substance is produced and maintained and by which energy is made available for the use of the organ-

GS

metabolism . adrenal metabolism

. ascorbic acid metabolism

. calcium metabolism . carbohydrate metabolism

. . hyperglycemia . . hypoglycemia

. catabolism

. electrolyte metabolism . enzyme activity

. fermentation

. hormone metabolisms

. hydrogen metabolism . hypometabolism

. mineral metabolism

. nitrogen metabolism . oxygen metabolism

. phosphorus metabolism

. protein metabolism . lipid metabolism

RT adenosine monophosphate

| caloric requirements                                 | nucleation                                    | neptunium compounds                             |
|--|---|---|
| enzymology   |   | nickel compounds                                |
| heterotrophs<br>homeostasis                          | metal coatings                                | niobium compounds<br>organic aluminum compounds |
| Krebs cycle  | SN (COATINGS CONSISTING OF METAL) GS coatings | organic aluminum compounds                      |
| metabolic diseases                                   | . metal coatings                              | organic lithium compounds                       |
| metabolites  | aluminum coatings                             | organic tin compounds                           |
| nutrition  | gold coatings                                 | organometallic compounds                        |
| obesity  | nickel coatings                               | osmium compounds                                |
| osteoporosis   | zinc coatings                                 | platinum compounds                              |
| oxygen consumption                                   | RT anodic stripping                           | plutonium compounds                             |
| physiology   | antiradar coatings                            | potassium compounds                             |
| respiration  | ceramic coatings                              | praseodymium compounds                          |
| secretions<br>thermoregulation                       | cladding<br>corrosion                         | protactinium compounds<br>rare earth compounds  |
| vasopressins   | corrosion prevention                          | refractory materials                            |
| vacopi cocinic                                       | deposition                                    | rhenium compounds                               |
| metabolites  | electroless deposition                        | rubidium compounds                              |
| DEF Products of biological synthesis and/or          | hot corrosion                                 | ruthenium compounds                             |
| metabolism.  | ion plating                                   | samarium compounds                              |
| RT biochemistry                                      | lacquers                                      | scandium compounds                              |
| biosynthesis<br>metabolic wastes                     | magnetron sputtering                          | silver compounds                                |
| metabolism   | metallizing<br>∞ metallurgy                   | sodium compounds<br>strontium compounds         |
| organic compounds                                    | metals  | strontium oxides                                |
| gp   | optical coatings                              | tantalum compounds                              |
| metacomputing  | oxides  | technetium compounds                            |
| (added December 2003)                                | paints  | thallium compounds                              |
| USE grid computing (computer                         | ∞ plates                                      | thorium compounds                               |
| networks)  | plating                                       | thulium compounds                               |
| metedate   | primers (coatings)                            | tin compounds                                   |
| metadata<br>(added June 2004)                        | protective coatings                           | titanium compounds                              |
| DEF Data that provides information about             | sprayed coatings                              | tungsten compounds<br>uranium compounds         |
| other data. Structured information describing        | metal combustion                              | vanadium compounds                              |
| any object or resource.                              | GS combustion                                 | vanadyl compounds                               |
| GS information                                       | . metal combustion                            | ytterbium compounds                             |
| . metadata   | RT fuel combustion                            | yttrium compounds                               |
| RT ∞ data  | gas-metal interactions                        | zinc compounds                                  |
| data bases   | metals  | zirconium compounds                             |
| data management                                      | oxidation                                     |   |
| indexing (information science) information retrieval | propellant combustion                         | metal corrosion USE corrosion                   |
| inionnation retrieval                                | pyrophoric materials                          | OSL COITOSION                                   |
| metagalaxy   | solid propellant combustion                   | metal crystals                                  |
| USE universe   | solid propellant ignition                     | GS crystals                                     |
|  | ∞ metal compounds                             | . metal crystals                                |
| metal air batteries                                  | SN (USE OF A MORE SPECIFIC TERM IS            | RT crystal lattices                             |
| GS electric generators                               | RECOMMENDEDCONSULT THE TERMS                  | crystal structure                               |
| . direct power generators primary batteries          | LISTED BELOW)<br>RT ∞ alkali metal compounds  | metallography                                   |
| metal air batteries                                  | aluminum compounds                            | metals  |
| zinc-oxygen batteries                                | ammines                                       | metal cutting                                   |
| electrochemical cells                                | antimony compounds                            | GS cutting                                      |
| . electric batteries                                 | barium compounds                              | . metal cutting                                 |
| primary batteries                                    | beryllium compounds                           | RT countersinking                               |
| metal air batteries                                  | bismuth compounds                             | grinding (material removal)                     |
| zinc-oxygen batteries                                | cadmium compounds<br>calcium compounds        | knurling  |
| RT dry cells   | cerium compounds                              | laser cutting                                   |
| storage batteries                                    | cesium compounds                              | machine tools machining                         |
| metal bonding  | ∞ chemical compounds                          | melting   |
| GS bonding   | chromium compounds                            | micromachining                                  |
| . metal bonding                                      | cobalt compounds                              | milling (machining)                             |
| metal-metal bonding                                  | copper compounds                              | perforating                                     |
| RT adhesion  | dysprosium compounds                          | planing   |
| adhesive bonding                                     | erbium compounds                              | plasma arc cutting                              |
| bimetals<br>brazing                                  | europium compounds<br>gallium compounds       | scarfing  |
| diffusion welding                                    | germanium compounds                           | shearing<br>slicing                             |
| explosive welding                                    | hafnium compounds                             | spark machining                                 |
| heat affected zone                                   | indium compounds                              | spiking   |
| joints (junctions)                                   | iridium compounds                             | -1 5  |
| laminates  | iron compounds                                | metal drawing                                   |
| resin bonding  | lanthanum compounds                           | GS forming techniques                           |
| soldering  | lead compounds                                | . metal drawing                                 |
| welding  | lead organic compounds<br>lithium compounds   | metal working                                   |
| metal clusters                                       | lithium iodates                               | . <b>metal drawing</b><br>RT bulging            |
| (added January 1994)                                 | lutetium compounds                            | bundle drawing                                  |
| DEF Bonded aggregations of like metal at-            | magnesium compounds                           | cold drawing                                    |
| oms.   | manganese compounds                           | cold working                                    |
| RT agglomeration                                     | mercury compounds                             | ∞ drawing                                       |
| atomic clusters                                      | metal fluorides                               | ductility                                       |
| chemisorption  | model b = U d = -                             |   |
| clumps   | metal halides                                 | hot working                                     |
| m clusters   | metal hydrides                                | magnetic forming                                |
| ∞ clusters<br>metals                                 | metal hydrides<br>metal oxides                |   |
| ∞ clusters<br>metals<br>molecular clusters           | metal hydrides                                | magnetic forming                                |
| metals   | metal hydrides<br>metal oxides<br>metals      | magnetic forming stretch forming                |

|         | . metal fatigue                          | lanthanum fluorides                                    | surface finishing                            |
|---------|--|--|--|
| RT      | bending fatigue                          | lithium fluorides                                      | metal halides                                |
|         | Coffin-Manson law                        | magnesium fluorides                                    | GS halogen compounds                         |
|         | crack closure                            | nickel fluorides                                       | . halides                                    |
|         | crack initiation                         | plutonium fluorides                                    | metal halides                                |
|         | crack propagation                        | protactinium fluorides<br>sodium fluorides             | alkali halides                               |
|         | fracturing grain size                    | sodium nuorides  | cesium halides                               |
|         | inelastic stress                         | thorium fluorides                                      | cesium bromides                              |
|         | retirement for cause                     | tungsten fluorides                                     | cesium fluorides                             |
|         | rupturing                                | uranium fluorides                                      | cesium iodides                               |
|         | Segre characteristic                     | zinc fluorides   | potassium iodides                            |
|         | short cracks                             | zirconium fluorides                                    | sodium bromides                              |
|         | S-N diagrams                             | metal halides  | sodium chlorides                             |
|         | stress corrosion                         | metal fluorides  | sodium fluorides                             |
|         | stress corrosion cracking                | aluminum fluorides                                     | sodium iodides                               |
|         | thermal fatigue                          | beryllium fluorides                                    | aluminum chlorides                           |
|         | transgranular corrosion                  | cadmium fluorides                                      | barium fluorides                             |
|         |  | calcium fluorides                                      | beryllium chlorides<br>cadmium chlorides     |
| metal f |  | fluorspar  | calcium chlorides                            |
| GS      | fibers                                   | cesium fluorides                                       | chromium bromides                            |
| DT      | . metal fibers                           | chromium fluorides                                     | copper chlorides                             |
| RT      | Borsic (tradename)                       | cobalt fluorides                                       | hafnium iodides                              |
|         | fiber composites                         | copper fluorides                                       | iron chlorides                               |
|         | filament winding                         | lanthanum fluorides                                    | lanthanum chlorides                          |
|         | reinforcing fibers                       | lithium fluorides                                      | lead chlorides                               |
| metal f | ilms                                     | magnesium fluorides                                    | lithium chlorides                            |
| RT      | coatings                                 | nickel fluorides<br>plutonium fluorides                | magnesium bromides                           |
|         | diamond films                            | protectinium fluorides                                 | metal fluorides                              |
|         | ∞ films                                  | sodium fluorides                                       | aluminum fluorides                           |
|         | metallizing                              | strontium fluorides                                    | beryllium fluorides                          |
|         | metals                                   | thorium fluorides                                      | cadmium fluorides                            |
|         | nickel coatings                          | tungsten fluorides                                     | calcium fluorides                            |
|         | pickling (metallurgy)                    | uranium fluorides                                      | fluorspar                                    |
|         | sputtering gages                         | zinc fluorides   | cesium fluorides                             |
|         | thin films                               | zirconium fluorides                                    | chromium fluorides                           |
|         |  | RT ∞ metal compounds                                   | cobalt fluorides                             |
|         | inishing                                 |  | copper fluorides<br>lanthanum fluorides      |
| GS      | metal finishing . electropolishing       | metal foams  | lithium fluorides                            |
|         | . peening                                | DEF Foamed materials formed under low                  | magnesium fluorides                          |
|         | shot peening                             | gravity conditions in space from sputtered metal       | nickel fluorides                             |
| RT      | cleaning                                 | deposits. This experimental space processing           | plutonium fluorides                          |
|         | coating                                  | was completed in the second NASA SPAR flight. GS foams | protactinium fluorides                       |
|         | coatings                                 | GS foams<br>. metal foams                              | sodium fluorides                             |
|         | descaling                                |  | strontium fluorides                          |
|         | pickling (metallurgy)                    | RT bubbles<br>foaming                                  | thorium fluorides                            |
|         | plating                                  | low gravity manufacturing                              | tungsten fluorides                           |
|         | surface finishing                        | ∞ materials science                                    | uranium fluorides                            |
|         | · ·                                      | melting  | zinc fluorides                               |
|         | luorides                                 | ∞ metallurgy   | zirconium fluorides                          |
| GS      | halogen compounds                        | Space Processing Applications                          | niobium iodides                              |
|         | fluorine compounds                       | Rocket   | potassium bromides                           |
|         | fluorides                                |  | potassium chlorides                          |
|         | metal fluorides                          | metal foils  | silver halides                               |
|         | aluminum fluorides                       | GS foils (materials)                                   | silver bromides                              |
|         | beryllium fluorides<br>cadmium fluorides | . metal foils  | silver chlorides<br>silver iodides           |
|         | calcium fluorides                        | RT honeycomb structures                                | strontium bromides                           |
|         | fluorspar                                | metals   | technetium fluorides                         |
|         | cesium fluorides                         | multilayer insulation                                  | titanium chlorides                           |
|         | chromium fluorides                       | ∞ sheets   | tungsten halides                             |
|         | cobalt fluorides                         | metal forging  | tungsten chlorides                           |
|         | copper fluorides                         | USE forging  | tungsten fluorides                           |
|         | lanthanum fluorides                      | OOL IOIGING  | zinc chlorides                               |
|         | lithium fluorides                        | metal forming  | zirconium iodides                            |
|         | magnesium fluorides                      | USE forming techniques                                 | RT ∞ metal compounds                         |
|         | nickel fluorides                         | metal working  | matal hardaning                              |
|         | plutonium fluorides                      | · · · · · · · · · · · · · · · · · · ·                  | metal hardening USE hardening (materials)    |
|         | protactinium fluorides                   | metal fuels  | OSL Hardening (materials)                    |
|         | sodium fluorides                         | GS fuels   | metal hydrides                               |
|         | strontium fluorides                      | . chemical fuels                                       | UF <i>plumbane</i>                           |
|         | thorium fluorides                        | metal fuels  | GS hydrogen compounds                        |
|         | tungsten fluorides                       | RT aluminum compounds                                  | . hydrides                                   |
|         | uranium fluorides                        | beryllium compounds                                    | . metal hydrides                             |
|         | zinc fluorides                           | boron compounds  | aluminum hydrides                            |
|         | zirconium fluorides                      | cesium compounds                                       | aluminum borohydrides                        |
|         | . halides                                | gelled propellants                                     | beryllium hydrides                           |
|         | fluorides                                | hybrid propellants                                     | cesium hydrides                              |
|         | metal fluorides<br>aluminum fluorides    | lithium compounds                                      | lithium hydrides                             |
|         | beryllium fluorides                      | metals   | lithium aluminum hydrides potassium hydrides |
|         | cadmium fluorides                        | slurry propellants<br>solid propellants                |  |
|         | calcium fluorides                        | solia biobeliquis                                      | sodium hydrides<br>RT ∞ metal compounds      |
|         | fluorspar                                | metal grinding   | •  |
|         | cesium fluorides                         | GS grinding (material removal)                         | metal insulator semiconductors               |
|         | chromium fluorides                       | . metal grinding                                       | USE MIS (semiconductors)                     |
|         | cobalt fluorides                         | RT forming techniques                                  | metal ions                                   |
|         | copper fluorides                         | grinding machines                                      | GS ions                                      |
|         |  | J=g===   | ·-···  |

|          | . metal ions                             |         | SOI (semiconductors)              |         | billets                               |
|----------|--|---------|-----------------------------------|---------|---------------------------------------|
|          | ferric ions                              |         |                                   |         | flanges                               |
|          | manganese ions                           | metal   |                                   |         | flat plates                           |
| RT       | barium ion clouds                        | GS      | chalcogenides                     |         | girder webs                           |
|          | cations                                  |         | . oxides                          |         | parallel plates                       |
|          | crystal field theory                     |         | metal oxides                      | c       | ∞ plates                              |
|          | ion implantation                         |         | alkaline earth oxides             |         | rectangular plates                    |
|          | ion plating                              |         | barium oxides                     |         | slabs                                 |
|          | metals                                   |         | beryllium oxides                  |         | thick plates                          |
|          | positive ions                            |         | alexandrite                       |         | thin plates                           |
|          |  |         | calcium oxides                    |         | - Habia -                             |
| metal jo | pints                                    |         | akermanite                        |         | oolishing                             |
| GS       | joints (junctions)                       |         | magnesium oxides                  | UF      |                                       |
|          | . metal joints                           |         | akermanite<br>periclase           | GS      | polishing                             |
|          | soldered joints                          |         | aluminum oxides                   |         | . metal polishing                     |
|          | welded joints                            |         | alexandrite                       | DT      | electropolishing                      |
|          | spot welds                               |         |                                   | RT      | cleaning<br>surface finishing         |
| RT       | butt joints                              |         | sapphire bismuth oxides           |         | surface linishing                     |
|          | explosive welding                        |         | cerium oxides                     | metal p | owder                                 |
|          | lap joints                               |         | cesium oxides                     | UF      |                                       |
|          | riveted joints                           |         | chromium oxides                   | GS      | particles                             |
|          | scarf joints                             |         | cobalt oxides                     | 00      | . metal particles                     |
|          | seams (joints)                           |         | copper oxides                     |         | metal powder                          |
|          |  |         | gallium oxides                    |         | platinum black                        |
| motal n  | astriv compositos                        |         | hafnium oxides                    |         | powdered aluminum                     |
| GS       | natrix composites<br>composite materials |         | iron oxides                       |         | sintered aluminum powder              |
| 63       | . metal matrix composites                |         | hematite                          |         | . powder (particles)                  |
|          | aluminum boron composites                |         | ilmenite                          |         | metal powder                          |
|          | aluminum graphite composites             |         | magnetite                         |         | platinum black                        |
|          | Borsic (tradename)                       |         | lanthanum oxides                  |         | powdered aluminum                     |
|          | eutectic composites                      |         | lead oxides                       |         | sintered aluminum powder              |
| RT       | aramid fiber composites                  |         | lithium oxides                    | RT      | atomizing                             |
| 111      | boron fibers                             |         | manganese oxides                  |         | bearing alloys                        |
|          | chemical compatibility                   |         | Hopcalite (trademark)             |         | comminution                           |
|          | crack bridging                           |         | mercury oxides                    |         | compressibility                       |
|          | electrodeposition                        |         | mixed oxides                      |         | compressing                           |
|          | fiber composites                         |         | BSCCO superconductors             |         | electrodeposition                     |
|          | fiber pullout                            |         | YBCO superconductors              |         | flakes                                |
|          | fiber pushout                            |         | molybdenum oxides                 |         | liquid phase sintering                |
|          | fibers                                   |         | nickel oxides                     |         | metals                                |
|          | functionally gradient materials          |         | niobium oxides                    |         | mixing                                |
|          | hybrid composites                        |         | platinum oxides                   |         | porous materials                      |
| 0        | • materials                              |         | plutonium oxides                  |         | powder metallurgy                     |
|          | matrices                                 |         | potassium oxides                  |         | reduction (chemistry)                 |
|          | matrix materials                         |         | scandium oxides                   |         | sintering                             |
|          | monotectic alloys                        |         | silver oxides                     |         | size separation                       |
|          | particulate reinforced composites        |         | sodium peroxides                  |         |                                       |
|          | plasma spraying                          |         | strontium oxides                  | metal p | propellants                           |
|          | powder metallurgy                        |         | tantalum oxides                   | GS      | propellants                           |
|          | reinforcing fibers                       |         | thorium oxides                    |         | . rocket propellants                  |
|          | resin matrix composites                  |         | tin oxides                        |         | solid rocket propellants              |
|          | squeeze casting                          |         | titanium oxides                   |         | metal propellants                     |
|          | whisker composites                       |         | anatase                           |         | . solid propellants                   |
|          |  |         | ilmenite                          |         | solid rocket propellants              |
| metal n  | itridae                                  |         | rutile                            |         | metal propellants                     |
| GS       | nitrogen compounds                       |         | tungsten oxides                   | RT      | aluminum compounds                    |
| 63       | . nitrides                               |         | scheelite                         |         | beryllium compounds                   |
|          | metal nitrides                           |         | uranium oxides                    |         | boron compounds                       |
|          | aluminum nitrides                        |         | vanadium oxides                   |         | gelled propellants                    |
|          | beryllium nitrides                       |         | yttrium oxides                    |         | gelled rocket propellants             |
|          | gallium nitrides                         |         | zinc oxides                       |         | hybrid propellants                    |
|          | tantalum nitrides                        |         | zirconium oxides                  |         | monopropellants<br>slurry propellants |
|          | titanium nitrides                        | рт      | yttria-stabilized zirconia        |         | siurry propenants                     |
|          | zirconium nitrides                       | RT      | cathodic coatings                 | metal s | heets                                 |
| RT       | transition metals                        |         | high temperature superconductors  | UF      | sheet metal                           |
|          |  | ,       | oxide films                       | RT      |                                       |
| motel    | raania ahamiaal yanar dan!!!             |         | vanadates                         |         | ∞ sheets                              |
|          | rganic chemical vapor deposition         |         | variadates                        |         | 5.166.6                               |
| USE      | metalorganic chemical vapor              | metal i | particles                         | metal s | shells                                |
|          | deposition                               | GS      |                                   | GS      | shells (structural forms)             |
|          |  |         | metal particles                   |         | . metal shells                        |
| metal o  | xide semiconductors                      |         | metal powder                      | RT      | circular shells                       |
| UF       | MOS (semiconductors)                     |         | platinum black                    |         | cylindrical shells                    |
| GS       | electronic equipment                     |         | powdered aluminum                 |         | hemispherical shells                  |
|          | . solid state devices                    |         | sintered aluminum powder          |         | hulls (structures)                    |
|          | semiconductor devices                    | RT      | particulate reinforced composites |         | membrane structures                   |
|          | metal oxide semiconductors               |         | powder metallurgy                 |         | orthotropic shells                    |
|          | CMOS                                     |         | scrap                             |         | reinforced shells                     |
|          | ITO (semiconductors)                     |         | sputtering                        |         | skin (structural member)              |
|          | SOS (semiconductors)                     |         |                                   |         | spherical shells                      |
|          | semiconductors (materials)               | metal ı |                                   |         | thin walled shells                    |
|          | . metal oxide semiconductors             | UF      | plate (metal)                     |         | toroidal shells                       |
|          | CMOS                                     | GS      | structural members                |         |                                       |
|          | ITO (semiconductors)                     |         | plates (structural members)       |         | spinning                              |
|          | SOS (semiconductors)                     |         | . metal plates                    | UF      | spin forging                          |
| RT       | capacitance-voltage characteristics      |         | boiler plate                      |         | spinning (metallurgy)                 |
|          | ion implantation                         | RT      | armor                             | GS      | forming techniques                    |
|          | rectifiers                               |         | bars                              |         | . metal spinning                      |

# metal spraying

|         | hydrospinning  | . sizing (shaping)                                  |          | hydrogen isotopes                 |
|---------|--|---|----------|-----------------------------------|
|         | metal working  | RT brakes (forming or bending)                      |          | metallic hydrogen                 |
|         | . metal spinning   | ∞ breakdown   |          | gases                             |
|         | hydrospinning  | casting   |          | . hydrogen                        |
|         | spin   | cold pressing                                       |          | hydrogen isotopes                 |
|         | . metal spinning   | cold rolling  |          | metallic hydrogen                 |
|         | hydrospinning  | cold working  | RT       | critical temperature              |
| RT      | cold working   | decarburization                                     |          | solid phases                      |
|         | extruding  | deep drawing  |          | solid state                       |
|         | hot working  | dimpling  |          | solidified gases                  |
|         |  | electrohydraulic forming                            |          | solids                            |
|         | praying  | electromagnetic hammers                             |          |                                   |
| GS      | spraying   | explosive welding                                   |          | plasmas                           |
|         | . metal spraying   | extruding   | GS       | particles                         |
| RT      | arc spraying   | flattening  |          | . charged particles               |
|         | coating  | forming techniques                                  |          | energetic particles               |
|         | coatings   | hardening (materials)                               |          | plasmas (physics)                 |
|         | flame spraying   | hot isostatic pressing                              |          | metallic plasmas                  |
|         | HVOF thermal spraying  | hot pressing  |          | cesium plasma                     |
|         | metallizing  | hot working   |          | uranium plasmas                   |
|         | surface finishing  | laser applications                                  |          | . corpuscular radiation           |
|         |  | laser machining                                     |          | energetic particles               |
| metal s | trips  | leveling  |          | plasmas (physics)                 |
| RT      | billets  | machining   |          | metallic plasmas                  |
|         | ribbons  | malleability  |          | cesium plasma                     |
|         | strakes  | ∞ metallurgy  |          | uranium plasmas                   |
| ~       | ∘ strip  | micromachining                                      | RT       | electron plasma                   |
|         | strip transmission lines                                       | peening   |          | mercury arcs                      |
|         |  | perforating   |          | plasma sheaths                    |
| metal s | urfaces  | piercing  |          | •                                 |
| RT      | adatoms  | plasma arc cutting                                  | metallic | stars                             |
|         | crack initiation   | pressing (forming)                                  | GS       | celestial bodies                  |
|         | crystal surfaces   | pyrometallurgy                                      |          | . stars                           |
|         | erosion  | ∞ reduction   |          | . metallic stars                  |
|         | gas-solid interfaces   | roll forming  | RT       | abundance                         |
|         | liquid-solid interfaces  | •   |          | chemical composition              |
|         | oxide films  | ∞ rolling   |          | metallicity                       |
|         | solid surfaces   | shearing  |          | stellar atmospheres               |
|         | surface finishing  | shot peening  |          | stellar structure                 |
|         | surface properties   | squeeze casting                                     |          | Stellar Structure                 |
|         | surface reactions  | stamping  | metallic | eitv                              |
| ~       | surfaces   | stretch forming                                     | DEF      | The abundance index of a metal or |
| ~       | Surfaces   | stretching  |          | or a celestial body.              |
| motal v | apor lasers  | superplastic forming                                | RT       | abundance                         |
| DEF     | Stimulated emission devices, the ac-                           | swaging   | IXI      | chemical analysis                 |
|         | erials of which are vaporized metals.                          | tempering   |          | chemical composition              |
|         | •  | winding   |          | ·                                 |
| GS      | stimulated emission devices                                    | work hardening                                      |          | galactic clusters                 |
|         | . lasers   |   |          | galaxies                          |
| рт      | metal vapor lasers   | metal-barrier-metal junctions                       |          | globular clusters                 |
| RT      | laser materials  | USE MBM junctions                                   |          | hydrogen                          |
|         | laser microscopy   |   |          | interstellar matter               |
|         | optical pumping  | metal-gas systems                                   |          | mass ratios                       |
|         |  | RT gas lubricants                                   |          | metallic stars                    |
| metal v |  | gases   |          | metals                            |
| GS      | metals   | gas-metal interactions                              |          | spectroscopic analysis            |
|         | . metal vapors   | metals  |          | star clusters                     |
|         | mercury vapor  | ∞ systems   |          | stars                             |
|         | sodium vapor   | vapor phases  |          |                                   |
|         | vapors   |   | metalliz |                                   |
|         | . metal vapors   | metal-insulator-metal diodes                        | GS       | coating                           |
|         | mercury vapor  | USE MIM diodes                                      |          | metallizing                       |
|         | sodium vapor   |   |          | coatings                          |
| RT      | alkali metals  | metal-insulator-metal semiconductors                |          | . metallizing                     |
|         | alkali vapor lamps   | USE MIM (semiconductors)                            | RT       | cladding                          |
|         | gas-metal interactions   |   |          | electroplating                    |
|         | heat transfer  | metallic glasses                                    |          | finishes                          |
|         | liquid metals  | DEF Amorphous alloys (glassy metals) pro-           |          | flame spraying                    |
|         | vapor deposition   | duced by extremely rapid quenching of molten        |          | laminates                         |
|         |  | transition-metal alloys (e.g., iron, nickel, and/or |          | metal coatings                    |
| metal w | hisker reinforcement   | cobalt). These metallic glasses exhibit unique      |          | metal films                       |
| USE     | whisker composites   | mechanical, magnetic, and electrical properties,    |          | metal spraying                    |
|         |  | superconductive behavior, and anticorrosion re-     |          | plating                           |
| metal w | vorking  | sistance, depending on the alloys, their forma-     |          | spraying                          |
| SN      | (METAL DEFORMATION FOR CHANGING                                | tion and quenching techniques.                      |          | substrates                        |
|         | SHAPE AND FOR  | GS glass  |          | vapor deposition                  |
|         | PROPERTIESEXCLUDES CASTING,<br>CUTTING, DEPOSITION PROCESS AND | . metallic glasses                                  |          | ·                                 |
|         | MACHINING)   | RT glass coatings                                   | metallo  | graphy                            |
| UF      | metal forming  | glass fibers  |          | abrasion                          |
| GS      | metal working  | optical properties                                  |          | alloys                            |
|         | . ausforming   | silicon dioxide                                     |          | anisotropy                        |
|         | . bulging  | spin glass  |          | crystal lattices                  |
|         | . cladding   | vitreous materials                                  |          | crystallography                   |
|         | . coining  |   |          | electropolishing                  |
|         | . explosive forming  | metallic hydrogen                                   |          | etching                           |
|         | . forging  | GS chemical elements                                |          | ferrography                       |
|         | . hydroforming   | . hydrogen  |          | inclusions                        |
|         | . magnetic forming   | hydrogen isotopes                                   |          | isotropy                          |
|         | . metal drawing  | metallic hydrogen                                   | 00       | materials tests                   |
|         |  |   |          |                                   |
|         |  |   |          |                                   |
|         | . metal spinning . hydrospinning                               | . nuclides<br>isotopes                              |          | metal crystals • metallurgy       |

|           |  |         | about all astronomy                     |                         |
|-----------|--|---------|---|-------------------------|
|           | metals   | c       | ∞ physical sciences                     | plutonium 239           |
|           | microporosity  |         | powder metallurgy                       | plutonium 240           |
|           | microscopes  |         | pyrometallurgy                          | plutonium 241           |
|           | microstructure   |         | rapid quenching (metallurgy)            | plutonium 244           |
|           | mushy zones  |         | recrystallization                       | sergenium               |
|           | order-disorder transformations                               | c       | ∞ science                               | uranium                 |
|           | photomicrography   |         | smelting                                |                         |
|           | polishing  |         | thermomechanical treatment              | uranium isotopes        |
|           | radiography  |         | thermomeonamear treatment               | uranium 232             |
|           |  | motal n | metal bonding                           | uranium 233             |
|           | replicas   |         |   | uranium 234             |
|           | solid suspensions  | GS      | 3                                       | uranium 235             |
|           | time temperature parameter                                   |         | . metal bonding                         |                         |
|           | vibratory polishing  |         | metal-metal bonding                     | uranium 238             |
|           | Widmanstatten structure                                      | RT      | adhesive bonding                        | . alkali metals         |
|           | x ray diffraction  |         | adhesives                               | cesium                  |
|           | A ray amadadii   |         | diffusion welding                       | cesium isotopes         |
| metallo   | vido.  |         | explosive welding                       | cesium 133              |
|           |  |         |   | cesium 134              |
| UF        | semimetals   |         | heat affected zone                      | cesium 137              |
| GS        | chemical elements  |         | inertia bonding                         | cesium 144              |
|           | . metalloids   |         | resin bonding                           |                         |
|           | antimony   |         | soldering                               | cesium vapor            |
|           | antimony isotopes  |         | welding                                 | francium                |
|           | arsenic  |         | ŭ                                       | lithium                 |
|           | arsenic isotopes   | metal-n | nitride-oxide-semiconductors            | liquid lithium          |
|           |  | DEF     | Class of semiconductors utilizing sili- | lithium isotopes        |
|           | boron  |         |   | potassium               |
|           | boron isotopes   |         | ide and silicon oxide dielectrics.      | liquid potassium        |
|           | boron 10   | GS      | electronic equipment                    |                         |
|           | germanium  |         | . solid state devices                   | potassium isotopes      |
|           | germanium isotopes   |         |   | potassium 38            |
|           | polonium   |         | metal-nitride-oxide-semiconductors      | potassium 39            |
|           | polonium isotopes  |         | semiconductors (materials)              | potassium 40            |
|           | •  |         | commonauciore (materiale)               | rubidium                |
|           | polonium 208   |         | metal-nitride-oxide-semiconductors      | rubidium isotopes       |
|           | polonium 209   | ОТ      |   | rubidium 86             |
|           | polonium 210   | RT      | chips (memory devices)                  |                         |
|           | silicon  |         |   | sodium                  |
|           | amorphous silicon  | metal-n | nitride-oxide-silicon                   | liquid sodium           |
|           | porous silicon   | UF      | MNOS                                    | sodium isotopes         |
|           | silicon isotopes   | GS      | semiconductors (materials)              | sodium 22               |
|           |  |         | . metal-nitride-oxide-silicon           | sodium 24               |
|           | tellurium  |         | . Inclai Intrac Oxide Sincon            | sodium vapor            |
|           | tellurium isotopes   | motolo  | rania chemical vanor denocition         | . alkaline earth metals |
| RT        | alloys   |         | rganic chemical vapor deposition        |                         |
|           | arsenic alloys   |         | led May 1991)                           | barium isotopes         |
|           | boron alloys   | UF      | metal organic chemical vapor            | . aluminum              |
|           | intermetallics   |         | deposition                              | aluminum isotopes       |
|           | metals   |         | MOCVD (vapor deposition)                | aluminum 26             |
|           | organometallic compounds                                     |         | OMCVD (vapor deposition)                | aluminum 27             |
|           |  |         | organometallic vapor deposition         | . antimony isotopes     |
|           | semiconductors (materials)                                   | GS      |   | . astatine              |
|           |  | GS      |   | . astatine isotopes     |
| metallo   | rganic compounds   |         | . vapor deposition                      |                         |
| USE       | organometallic compounds                                     |         | metalorganic chemical vapor             | . barium                |
|           |  |         | deposition                              | barium isotopes         |
| metallo   | siloxane polymers  | RT      | coating                                 | . beryllium             |
|           |  |         | crystal growth                          | beryllium isotopes      |
| USE       | organometallic polymers                                      |         | organometallic compounds                | beryllium 7             |
|           |  |         | space processing                        | beryllium 9             |
| metallo   | xane polymers  |         | space processing                        | beryllium 10            |
| USE       | organometallic polymers                                      | matal a | wide metal cominenductors               |                         |
|           | •  |         | xide-metal semiconductors               | . bismuth               |
| ∞ metallu | irav   | USE     | MOM (semiconductors)                    | bismuth isotopes        |
| SN        |  |         |   | . calcium               |
| SIN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | metals  |   | calcium isotopes        |
|           | LISTED BELOW)  | UF      | magnetic metals                         | . ferrous metals        |
| RT        | alloying   | GS      | metals                                  | . gallium               |
|           | alloys   |         | . actinide series                       | gallium isotopes        |
|           | beneficiation  |         | actinium                                | . indium                |
|           | casting  |         | radium                                  | . indium isotopes       |
|           | 3  |         |   |                         |
|           | coating  |         | radium isotopes                         | lead (metal)            |
|           | coatings   |         | radium 226                              | lead isotopes           |
|           | corrosion  |         | thorium                                 | . liquid metals         |
|           | crystallography  |         | thorium isotopes                        | liquid lithium          |
|           | dispersion strengthening                                     |         | transuranium elements                   | . liquid potassium      |
|           | duplex operation   |         | americium                               | liquid sodium           |
|           | ferrous metals   |         | americium isotopes                      | mercury (metal)         |
|           | foundries  |         | americium 241                           | - , ,                   |
|           |  |         |   | mercury isotopes        |
|           | fractography   |         | berkelium                               | mercury vapor           |
|           | furnaces   |         | californium                             | . magnesium             |
|           | hardening (materials)  |         | californium isotopes                    | magnesium isotopes      |
|           | heat affected zone   |         | curium                                  | . metal vapors          |
|           | heat treatment   |         | curium isotopes                         | mercury vapor           |
|           | hydrometallurgy  |         | curium 242                              | sodium vapor            |
|           | levitation melting   |         | curium 242                              | . noble metals          |
|           |  |         |   |                         |
|           | light alloys   |         | einsteinium                             | gold                    |
|           | mechanical properties  |         | fermium                                 | gold isotopes           |
|           | melt spinning  |         | lawrencium                              | gold 198                |
|           | melting  |         | mendelevium                             | ruthenium               |
|           | metal coatings   |         | neptunium                               | ruthenium isotopes      |
|           | metal foams  |         | neptunium isotopes                      | silver                  |
|           | metal working  |         | nobelium                                | silver isotopes         |
|           | metallography  |         | plutonium                               | . nonferrous metals     |
|           |  |         |   |                         |
|           | metals   |         | plutonium isotopes                      | . protactinium          |
|           | nonferrous metals  |         | plutonium 238                           | protactinium isotopes   |

| . rare earth elements  |  | polonium 208   |
|--|--|--|
|  | iron 57  |  |
| cerium   | iron 58  | polonium 209   |
| cerium isotopes  | iron 59  | polonium 210   |
| cerium 137   | manganese  | polonium isotopes  |
| cerium 144   |  |  |
|  | manganese isotope  |  |
| dysprosium   | mercury (metal)  | syntectic alloys   |
| dysprosium isotopes  | mercury isotopes   |  |
| erbium   | mercury vapor  | metal-semiconductor-metal semiconductors   |
| erbium isotopes  | molybdenum   | USE MSM (semiconductors)   |
| •  |  | oce mom (comoditation)   |
| europium   | nickel   | motel water recettens  |
| europium isotopes  | nickel isotopes  | metal-water reactions  |
| gadolinium   | niobium  | GS chemical reactions  |
| gadolinium isotopes  | niobium isotopes   | . metal-water reactions  |
|  |  | RT corrosion   |
| holmium  | niobium 95   |  |
| holmium isotopes   | osmium   | electrochemical corrosion  |
| lanthanum  | osmium isotopes  | erosion  |
| lanthanum isotopes   | palladium  | pitting  |
|  |  | rusting  |
| lutetium   | platinum   | S S S S S S S S S S S S S S S S S S S  |
| lutetium isotopes  | platinum isotopes  | surface reactions  |
| neodymium  | . rhenium  |  |
|  |  | metamorphic rocks  |
| neodymium isotopes   | rhenium isotopes   | DEF Rocks derived from pre-existing rock   |
| praseodymium   | rhodium  |  |
| praseodymium isotopes  | rhodium isotopes   | by mineralogical, chemical and/or structura  |
| promethium   | ruthenium  | changes, essentially in the solid state. These   |
| promethium isotopes  |  | changes are in response to marked changes in   |
| the state of the s | ruthenium isotopes   | temperature, pressure, shearing stress, and  |
| samarium   | scandium   |  |
| samarium isotopes  | scandium isotopes  | chemical environment, generally at the depth of  |
| scandium   | silver   | the Earth's crust. Metamorphic rocks constitute  |
|  |  | one of the three main classes into which rock  |
| scandium isotopes  | silver isotopes  |  |
| terbium  | tantalum   | are divided, the others being igneous rocks and  |
| terbium isotopes   | tantalum isotopes  | sedimentary rocks.   |
| thulium  | •  | GS rocks   |
|  | technetium   | . metamorphic rocks  |
| thulium isotopes   | technetium isotopes  |  |
| ytterbium  | titanium   | quartzite  |
| ytterbium isotopes   | titanium isotopes  | RT metamorphism (geology)  |
|  | The state of the s |  |
| yttrium  | tungsten   | metamorphism (geology)   |
| yttrium isotopes   | tungsten isotopes  | DEF The mineralogical and structural ad  |
| . refractory metals  | vanadium   |  |
| chromium   | vanadium isotopes  | justment of solid rocks to physical and chemica  |
|  | · · · · · · · · · · · · · · · · · · ·  | conditions which have been imposed at depti  |
| chromium isotopes  | yttrium  | below the surface zones of weathering and  |
| iridium  | yttrium isotopes   |  |
| iridium isotopes   | zinc   | cementation, which differ from the condition   |
| molybdenum   | zinc isotopes  | under which the rocks in question originated.  |
|  |  | RT contacts (geology)  |
| niobium  | zirconium  | metamorphic rocks  |
| niobium isotopes   | zirconium isotopes   |  |
| niobium 95   | zirconium 95   | phase transformations  |
|  |  | rocks  |
| osmium   | . heavy metals   |  |
| osmium isotopes  | . ultrapure metals   | metastability  |
| rhenium  | . uranium plasmas  | · · · · · · · · · · · · · · · · · · ·  |
| rhenium isotopes   | RT alloys  | USE metastable state   |
| •  |  |  |
| tantalum   | antimony   | metastable atoms   |
| tantalum isotopes  | arsenic  | GS atoms   |
| tungsten   | arsenic isotopes   | . metastable atoms   |
| tungsten isotopes  | bimetals   |  |
|  |  | RT Penning effect  |
| . strontium  | Borsic (tradename)   |  |
|  |  | metastable state   |
| strontium isotopes   | cermets  |  |
|  | cermets<br>chemical elements   |  |
| strontium 85   | chemical elements  | UF metastability   |
| strontium 85<br>strontium 87   | chemical elements composite materials  | UF <i>metastability</i><br>RT excitation   |
| strontium 85<br>strontium 87<br>strontium 89   | chemical elements<br>composite materials<br>conductors   | UF metastability RT excitation radiation trapping  |
| strontium 85<br>strontium 87   | chemical elements composite materials  | UF metastability RT excitation radiation trapping  |
| strontium 85<br>strontium 87<br>strontium 89   | chemical elements<br>composite materials<br>conductors   | UF metastability RT excitation radiation trapping stability  |
| strontium 85<br>strontium 87<br>strontium 89<br>strontium 90<br>. thallium   | chemical elements<br>composite materials<br>conductors<br>embedded atom metho<br>eutectic composites   | UF metastability RT excitation radiation trapping stability steady state   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes   | chemical elements<br>composite materials<br>conductors<br>embedded atom methol<br>eutectic composites<br>gadolinium alloys   | UF metastability RT excitation radiation trapping stability  |
| strontium 85 strontium 87 strontium 89 strontium 90 . thallium . thallium isotopes . tin   | chemical elements<br>composite materials<br>conductors<br>embedded atom methol<br>eutectic composites<br>gadolinium alloys<br>intermetallics   | UF metastability RT excitation radiation trapping stability steady state unsteady state  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes   | chemical elements<br>composite materials<br>conductors<br>embedded atom methol<br>eutectic composites<br>gadolinium alloys   | UF metastability RT excitation radiation trapping stability steady state   |
| strontium 85 strontium 87 strontium 89 strontium 90 . thallium . thallium isotopes . tin   | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes   | UF metastability RT excitation radiation trapping stability steady state unsteady state metastasis   |
| strontium 85 strontium 87 strontium 89 strontium 90 . thallium . thallium isotopes . tin . tin isotopes . transition metals  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002)  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from on-  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmiumcadmium isotopes  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from the primary site.   |
| strontium 85 strontium 87 strontium 89 strontium 90 . thallium . thallium isotopes . tin . tin isotopes . transition metals . cadmium . cadmium . cadmium . chromium isotopes  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmiumcadmiumcadmiumcadmiumcadmiumcadmiumcadmiumcadmium   | chemical elements composite materials conductors embedded atom metho- eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from the primary site. RT cancer   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium isotopes  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote fron the primary site. RT cancer lymphatic system  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal comboustion ∞ metal compounds metal crystals   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from the primary site. RT cancer   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium isotopes  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal comboustion ∞ metal compounds metal crystals   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote fron the primary site. RT cancer lymphatic system  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium thallium isotopes .tin tin isotopes .transition metals cadmium cadmium cadmium isotopes chromium chromium isotopes cobalt cobalt isotopes cobalt 58 cobalt 60  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal foils   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from onorgan or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes cobalt 60 copper   | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal filois metal fuels  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium thallium isotopes .tin tin isotopes .transition metals cadmium cadmium cadmium isotopes chromium chromium isotopes cobalt cobalt isotopes cobalt 58 cobalt 60  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal foils   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium .cobalt 58 cobalt 60 .copper copper isotopes  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal foils metal fuels metal ions  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chobalt .cobalt isotopes cobalt 60 copper copper isotopes gold   | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal films metal files metal luels metal ions metal powder  | UF metastability RT excitation radiation trapping stability steady state unsteady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .cthromium isotopes .cobalt .cobalt isotopes cobalt 58 cobalt 60 .copper copper isotopes .gold gold isotopes   | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal comboustion ∞ metal compounds metal crystals metal films metal fils metal files metal ions metal ons metal ons metal ons metal ons metal fuels metal powder metal-gas systems   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis   |
| strontium 85 strontium 87 strontium 89 strontium 90 thallium . thallium . thallium isotopes . tin . tin isotopes . transition metals . cadmium . cadmium . cadmium isotopes . chromium . chromium isotopes . cobalt . cobalt isotopes . cobalt 60 . copper . copper isotopes . gold . gold isotopes gold 198   | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal films metal fuels metal ions metal powder metal-gas systems metallicity  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .cthromium isotopes .cobalt .cobalt isotopes cobalt 58 cobalt 60 .copper copper isotopes .gold gold isotopes   | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal comboustion ∞ metal compounds metal crystals metal films metal fils metal files metal ions metal ons metal ons metal ons metal ons metal fuels metal powder metal-gas systems   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  metazoa   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes cobalt 60 .copper copper copper isotopes gold gold isotopes gold 198 hafnium  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal films metal foils metal foils metal powder metal-gas systems metallicity metallography  | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes cobalt 60 .copper copper isotopes .gold .gold isotopes gold 198 .hafnium .hafnium isotopes  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal films metal foils metal ions metal jowder metal-gas systems metallicity metallography metalloids   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  metazoa   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes cobalt 60 .copper copper isotopes gold gold isotopes gold 198 hafnium hafnium isotopes iridium  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal comboustion ∞ metal compounds metal crystals metal films metal foils metal files metal ions metal powder metal-gas systems metallicity metallography metalloids ∞ metallurgy   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  metazoa USE animals   |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes cobalt 60 .copper copper isotopes .gold .gold isotopes gold 198 .hafnium .hafnium isotopes  | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal films metal fuels metal ions metal powder metal-gas systems metallicity metalloids ∞ metallurgy monotectic alloys   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  metazoa USE animals  Meteor 1 rocket vehicle                    |
| strontium 85 strontium 87 strontium 89 strontium 90 .thallium .thallium isotopes .tin .tin isotopes .transition metals .cadmium .cadmium isotopes .chromium .chromium isotopes .chromium .chromium isotopes .cobalt .cobalt isotopes cobalt 60 .copper copper isotopes gold gold isotopes gold 198 hafnium hafnium isotopes iridium  | chemical elements composite materials conductors embedded atom metho eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal comboustion ∞ metal compounds metal crystals metal films metal foils metal files metal ions metal powder metal-gas systems metallicity metallography metalloids ∞ metallurgy   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  metazoa USE animals  Meteor 1 rocket vehicle GS rocket vehicles |
| strontium 85 strontium 87 strontium 89 strontium 90 thallium . thallium . thallium isotopes tin . tin isotopes transition metals . cadmium . cadmium . cadmium isotopes . chromium . chromium isotopes . cobalt . cobalt isotopes . cobalt 60 . copper . copper isotopes . gold . gold isotopes . gold 198 . hafnium . hafnium isotopes iridium . iridium isotopes   | chemical elements composite materials conductors embedded atom methor eutectic composites gadolinium alloys intermetallics isotopes light alloys liquid alloys metal clusters metal coatings metal combustion ∞ metal compounds metal crystals metal films metal films metal fuels metal ions metal powder metal-gas systems metallicity metalloids ∞ metallurgy monotectic alloys   | UF metastability RT excitation radiation trapping stability steady state unsteady state  metastasis (added February 2002) DEF The transfer of a neoplasm from one organ or part of the body to another remote from the primary site. RT cancer lymphatic system neoplasms  metathesis GS chemical reactions . metathesis RT electrolysis ion exchanging  metazoa USE animals  Meteor 1 rocket vehicle                    |

| RT      | liquid propellant rocket engines                     | ۰        | origins                                |         | solar nebula                              |
|---------|--|----------|--|---------|---|
|         | ramjet engines                                       |          | petrogenesis                           |         | stony meteorites                          |
|         | solid propellant rocket engines                      |          |  |         | tektites                                  |
|         |  | meteor   | ites                                   |         | troilite                                  |
| meteor  |  | SN       | (LIMITED TO METEOROIDS WHICH HAVE      |         | veins (petrology)                         |
| USE     | meteoroid showers                                    |          | REACHED THE SURFACE OF AN              |         |   |
|         |  |          | ASTEROID, NATURAL SATELLITE OR PLANET) |         | itic damage                               |
| meteor  |  | DEF      | Meteoroids which have reached the      | GS      | damage                                    |
| USE     | meteorite craters                                    | surface  | of the Earth without being completely  |         | impact damage                             |
| ma4aar  | hazarda  | vaporize | ed. Used for meteorite compression     |         | meteoritic damage                         |
|         | hazards  | tests.   | ·                                      | RI •    | ∞ bombardment                             |
| USE     | meteoroid hazards                                    | UF       | meteorite compression tests            |         | cratering                                 |
| meteor  | traile   | GS       | celestial bodies                       |         | ejecta                                    |
|         | Anything, such as light or ionization,               |          | . meteorites                           |         | hypervelocity impact                      |
|         | ng the trajectory of the meteor after the            |          | iron meteorites                        |         | Mars craters                              |
|         | the meteor has passed. Used for mete-                |          | Aroos meteorite                        |         | meteorite collisions                      |
|         | nization.  |          | Lazarev meteorite                      |         | meteorite craters                         |
| UF      | meteoritic ionization                                |          | Odessa meteorite                       |         | meteoroid hazards                         |
| RT      | bolides  |          | Sikhote-Alin meteorite                 |         | meteoroid protection                      |
| IXI     | Earth atmosphere                                     |          | micrometeorites                        |         | projectile cratering                      |
|         | meteoroid showers                                    |          | stony meteorites                       | motoor  | itic diamonds                             |
|         | meteoroids   |          | achondrites                            | GS      | diamonds                                  |
|         | micrometeoroids                                      |          | Bondoc meteorite                       | 03      | . meteoritic diamonds                     |
| c       | ∞ paths  |          | chassignites                           | RT      | ureilites                                 |
|         | Pribram meteorite                                    |          | Kapoeta achondrite                     | KI      | urenites                                  |
|         | radio meteors  |          | nakhlites                              | meteori | itic dust                                 |
|         | scatter propagation                                  |          | Norton County achondrite               | USE     | micrometeoroids                           |
|         | sporadic meteoroids                                  |          | shergottites                           |         |   |
| c       | ∞ tracks   |          | SNC meteorites                         | meteori | itic ionization                           |
|         | upper atmosphere                                     |          | ureilites                              | USE     | atmospheric ionization                    |
|         | apper autopriore                                     |          | carbonaceous meteorites                | 002     | meteor trails                             |
| meteor  | ite collisions                                       |          | carbonaceous chondrites                |         |   |
| UF      | meteorite impacts                                    |          | Alais meteorite                        | meteor  | itic microstructures                      |
| GS      | collisions   |          | Allende meteorite                      | GS      | microstructure                            |
|         | . meteorite collisions                               |          | Cold Bokkeveld meteorite               |         | . meteoritic microstructures              |
| RT      | asteroid collisions                                  |          | Ivuna meteorite                        | RT      | chondrule                                 |
|         | cometary collisions                                  |          | Murchison meteorite                    |         | iron meteorites                           |
|         | hypervelocity impact                                 |          | Murray meteorite                       |         | meteorite parent bodies                   |
|         | meteoritic damage                                    |          | Orgueil meteorite                      |         | meteorites                                |
|         | meteoroid hazards                                    |          | Tonk meteorite                         |         | stony meteorites                          |
|         | near Earth objects                                   |          | ureilites                              |         | tektites                                  |
|         | shatter cones  |          | chondrites                             |         | Widmanstatten structure                   |
|         | Tungusk meteorite                                    |          | Bruderheim meteorite                   |         |   |
|         |  |          | carbonaceous chondrites                | meteor  | oid concentration                         |
| meteori | ite compression tests                                |          | Alais meteorite                        | GS      | composition (property)                    |
| USE     | compression tests                                    |          | Allende meteorite                      |         | . concentration (composition)             |
|         | mechanical properties                                |          | Cold Bokkeveld meteorite               |         | meteoroid concentration                   |
|         | meteorites   |          | Ivuna meteorite                        |         | density (number/volume)                   |
|         |  |          | Murchison meteorite                    |         | . meteoroid concentration                 |
|         | ite craters  |          | Murray meteorite                       | RT      | flux density                              |
| UF      | fossil meteorite craters                             |          | Orgueil meteorite                      |         | mass distribution                         |
|         | meteor craters                                       |          | Tonk meteorite                         |         | spatial distribution                      |
|         | meteoroid craters                                    |          | Harleton meteorite                     |         | sporadic meteoroids                       |
| GS      | craters  |          | Hvittis chondrite                      |         |   |
|         | . meteorite craters                                  |          | Okhansk meteorite                      |         | oid craters                               |
| RT      |  |          | Pantar chondrites Pribram meteorite    | USE     | meteorite craters                         |
|         | cratering  |          | tektites                               |         |   |
|         | ejecta   |          | australites                            |         | oid dust clouds                           |
|         | lunar craters  |          | bediasites                             | GS      |   |
|         | lunar rays   |          | Tungusk meteorite                      |         | . meteoroids                              |
|         | maria  |          | stony-iron meteorites                  |         | micrometeoroids                           |
|         | Mars craters   | RT       | bolides                                |         | meteoroid dust clouds                     |
|         | Mars surface meteorites                              | 13.1     | chondrule                              |         | zodiacal dust extraterrestrial matter     |
|         |  |          | coesite                                |         | interstellar matter                       |
|         | meteoritic damage planetary craters                  |          | foreign bodies                         |         | cosmic dust                               |
|         |  |          | impact melts                           |         |   |
|         | projectile cratering Ptolemaeus Crater               |          | meteorite craters                      |         | interplanetary dust meteoroid dust clouds |
|         | shatter cones  |          | meteorite parent bodies                |         | zodiacal dust                             |
|         | Tungusk meteorite                                    |          | meteoritic composition                 |         | media                                     |
|         | Tycho crater   |          | meteoritic microstructures             |         | . interplanetary medium                   |
|         | Tycho crater   |          | meteoroid showers                      |         | interplanetary dust                       |
| meteori | ite impacts  |          | meteoroids                             |         | meteoroid dust clouds                     |
|         | led July 2002)                                       |          | micrometeoroids                        |         | zodiacal dust                             |
|         | meteorite collisions                                 |          | moldavite                              |         | particles                                 |
| OOL     |  |          | near Earth objects                     |         | . dust                                    |
| meteor  | ite parent bodies                                    |          | •                                      |         | cosmic dust                               |
|         | led August 2001)                                     | meteor   | itic composition                       |         | interplanetary dust                       |
|         | Any celestial body that is the original              | GS       | composition (property)                 |         | meteoroid dust clouds                     |
|         | of meteoritic material.                              | 00       | . meteoritic composition               |         | zodiacal dust                             |
| UF      | meteoroid parent bodies                              | RT       | carbonaceous meteorites                | RT ~    | ∞ clouds                                  |
| GS      | celestial bodies                                     | 13.1     | cosmochemistry                         | 101 0   | Explorer satellites                       |
| 30      | . meteorite parent bodies                            |          | iron meteorites                        |         | terrestrial dust belt                     |
| RT      | asteroid belts                                       |          | isotope ratios                         |         |   |
|         | asteroids  |          | kamacite                               | meteor  | oid hazards                               |
|         | comets   |          | meteorite parent bodies                | UF      | meteor hazards                            |
|         | meteorites   |          | meteorites                             | GS      | hazards                                   |
|         | meteoritic composition                               |          | schreibersite                          | 00      | . flight hazards                          |
|         | meteoritic composition<br>meteoritic microstructures |          | siderophile elements                   |         | meteoroid hazards                         |
|         |  |          |  |         |   |

#### meteoroid protection

RT meteorite collisions micrometeorites weather stations meteoritic damage natural satellites particle tracks meteorological parameters meteoroids operational hazards Radiation Meteoroid spacecraft GS constraints projectile cratering solar system . meteorological parameters spacecraft breakup space debris . Brunt-Vaisala frequency . Tempel 2 comet aerology meteoroid parent bodies Toro asteroid agroclimatology (added August 2001) Toutatis asteroid annual variations USE meteorite parent bodies Atmospheric & Oceanographic Inform Vesta asteroid Atmospheric Cloud Physics Lab meteoroid protection meteorological balloons protection (Spacelab) GS expandable structures atmospheric pressure meteoroid protection . inflatable structures atmospheric temperature bumpers . . balloons impact damage atmospheric turbulence ... meteorological balloons meteoritic damage aviation meteorology . . . . jimsphere balloons spacecraft shielding ceilings (meteorology) ... ROBIN balloons cloud cover spacecraft structures dropsondes cockpit weather information systems high altitude balloons cold fronts meteoroid showers radiosondes equatorial atmosphere Groups of meteoroids with approxirawinsondes fronts (meteorology) mately parallel trajectories. Used for meteor rockoons hindcasting bursts. skyhook balloons humidity UF meteor bursts sounding isotherms GS celestial bodies superpressure balloons tethered balloons moisture . meteoroid showers ocean data acquisitions systems oceanographic parameters . . Aquarid meteoroids upper atmosphere . . Arietid meteoroids weather forecasting precipitation (meteorology) . . Cyrillid meteoroids storms (meteorology) . . Draconid meteoroids . . Geminid meteoroids teleconnections (meteorology) meteorological charts . . Leonid meteoroids temperature inversions weather charts . . Orionid meteoroids tropical meteorology weather maps warm fronts Perseid meteoroids GS charts weather . . Quadrantid meteoroids meteorological charts wind direction . Taurid meteoroids maps wind measurement RT astronomy meteorological charts bolides wind velocity RT isobars (pressure) comets radar maps meteorological probes meteor trails synoptic meteorology meteorites USE sondes meteoroids meteorological radar meteorological flight showers aerial reconnaissance UF weather radar balloon flight GS radar Meteoroid Technology Satellite meteorological radar ∞ flight USE Explorer 46 satellite ice reporting precipitation measurement rocket flight precipitation particle measurement meteoroids SIRS B satellite pulse radar SN (LIMITED TO SOLID OBJECTS IN SPACE, MUCH SMALLER THAN AN ASTEROID AND MUCH LARGER THAN A MOLECULE)
DEF Solid objects moving in interplanetary space, of a size considerably smaller than asteroids and considerably larger than atoms or radar scanning sounding radar tracking space flight weather forecasting radio meteorology surveillance radai weather forecasting molecules. Used for meteors. meteorological instruments GS measuring instruments
. meteorological instruments meteors meteorological research aircraft GS celestial bodies GS research vehicles meteoroids . . barometers . research aircraft . . Aquarid meteoroids . . cloud height indicators . meteorological research aircraft . . Arietid meteoroids . . dropsondes RT ∞ aircraft . . bolides . . radiometeorographs data acquisition Cyrillid meteoroids . . radiosondes Draconid meteoroids ...ionosondes meteorological rockets Geminid meteoroids . . . rawinsondes USE sounding rockets . . Leonid meteoroids . . ozonesondes . . micrometeoroids . . rain gages meteorological satellites . . . meteoroid dust clouds . . weather data recorders GS artificial satellites . zodiacal dust . wind vanes . meteorological satellites Orionid meteoroids RT anemometers . . AEROS satellite Perseid meteoroids balloon-borne instruments Cosmos 144 satellite . . Quadrantid meteoroids hot-film anemometers D-2 satellites . . radio meteors hot-wire anemometers . . DMSP satellites . . sporadic meteoroids humidity measurement . . Elektron satellites Taurid meteoroids hygrometers Elektron 1 satellite asteroid belts hypsometers ... Elektron 2 satellite asteroids instruments Elektron 4 satellite bumpers light scattering meters . . EOLE satellites Chiron meteorology . . ESSA satellites ... ESSA 1 satellite comets nephanalysis precipitation measurement ESSA 2 satellite cosmic dust . . . ESSA 3 satellite Gaspra asteroid psychrometers hypervelocity projectiles ESSA 4 satellite recording instruments ESSA 5 satellite Ida asteroid rocket-borne instruments ... ESSA 6 satellite ... ESSA 7 satellite interplanetary dust SIRS B satellite interplanetary medium sodar meteor trails sound detecting and ranging ESSA 8 satellite meteorites . ESSA 9 satellite sounding rockets meteoroid hazards transducers . . Explorer 9 satellite

weather reconnaissance aircraft

. . Explorer 17 satellite

meteoroid showers

|     | Explorer 19 satellite  | Japanese space program   | cloud cover  |
|-----|--|--|--|
|     | GEOLE satellites   | meteorology  | clouds (meteorology)   |
|     | GOES satellites  | military spacecraft  | CloudSat   |
|     | GOES 1   | navigation satellites  | cold fronts  |
|     |  |  |  |
|     | GOES 2   | Nimbus project   | condensation nuclei  |
|     | GOES 3   | NOESS  | convection   |
|     | GOES 4   | precipitation measurement  | convection clouds  |
|     | GOES 5   | satellite observation  | Coriolis effect  |
|     |  | satellite sounding   | cyclones   |
|     | GOES 6   | satellite television   | DMSP satellites  |
|     | GOES 7   | sounding rockets   | Earth cryosphere   |
|     | GOES 8   |  |  |
|     | GOES 9   | space probes   | Earth sciences   |
|     |  | TIROS project  | environmental engineering  |
|     | GOES 10  | unmanned spacecraft  | environmental monitoring   |
|     | GOES 13  | Vanguard satellites  | fronts (meteorology)   |
|     | METEOSAT satellite   | weather forecasting  | GARP Atlantic Tropical Experiment  |
|     | Nimbus satellites  | •  |  |
|     | Nimbus 1 satellite   | weather stations   | geology  |
|     |  |  | geophysics   |
|     | Nimbus 2 satellite   | meteorological services  | Global Atmospheric Research  |
|     | Nimbus 3 satellite   | UF World Weather Watch   | Program  |
|     | Nimbus 4 satellite   | WWW (meteorology)  | hailstorms   |
|     | Nimbus 5 satellite   | GS services  |  |
|     | Nimbus 6 satellite   |  | humidity   |
|     |  | meteorological services  | hurricanes   |
|     | Nimbus 7 satellite   | RT automatic weather stations  | hydroclimatology   |
|     | NOAA satellites  | aviation meteorology   | hydrodynamic equations   |
|     | NOAA 2 satellite   | flight conditions  | hydrography  |
|     | NOAA 3 satellite   | weather forecasting  |  |
|     | NOAA 4 satellite   |  | hydrology  |
|     |  | weather stations   | insolation   |
|     | NOAA 5 satellite   |  | isotherms  |
|     | NOAA 6 satellite   | meteorological solenoids   | mesoscale phenomena  |
|     | NOAA 7 satellite   | RT baroclinity   | meteorological instruments   |
|     | NOAA 8 satellite   | vortices   |  |
|     | NOAA 9 satellite   | VOITIOCS   | meteorological satellites  |
|     |  |  | METEOSAT satellite   |
|     | NOAA 10 satellite  | meteorological stations  | method of characteristics  |
|     | NOAA 11 satellite  | USE weather stations   | moisture   |
|     | NOAA 12 satellite  |  |  |
|     | NOAA 14 satellite  | meteorology  | National Severe Storms Project   |
|     | San Marco satellites   | DEF The study dealing with the phenomena   | nephanalysis   |
|     |  |  |  |
|     | San Marco 1 satellite  | of the atmosphere especially as they relate to   |  |
|     | San Marco 2 satellite  | weather and climate. Used for atmospheric con-   | ∞ physical sciences  |
|     | San Marco 3 satellite  | ditions.   | precipitation (meteorology)  |
|     | SEOCS (satellite)  | UF atmospheric conditions  |  |
|     | SIRS B satellite   | GS meteorology   | ∞ science  |
|     |  | 0,   | sea breeze   |
|     | Sputnik 1 satellite  | . aerology   | seasons  |
|     | Sputnik 2 satellite  | . agrometeorology  | sodar  |
|     | Sputnik 3 satellite  | . Alpine meteorology   | sound detecting and ranging  |
|     | SRET satellites  | aviation meteorology   |  |
|     | SRET 1 satellite   | . biometeorology   | storms (meteorology)   |
|     |  |  | teleconnections (meteorology)  |
|     | SRET 2 satellite   | . hydrometeorology   | temperature  |
|     | Synchronous Earth Observatory  | marine meteorology   | temperature inversions   |
|     | satellite  | . mesometeorology  | tropical regions   |
|     | SMS 1  | . micrometeorology   |  |
|     | SMS 2  | . microbursts (meteorology)  | tropical storms  |
|     |  |  | typhoons   |
|     | Synchronous Meteorological   | . nuclear meteorology  | warm fronts  |
|     | Satellite  | . planetary meteorology  | weather  |
|     | SMS 1  | . polar meteorology  | wind (meteorology)   |
|     | SMS 2  | . radio meteorology  |  |
|     | TIROS satellites   | . synoptic meteorology   | wind measurement   |
|     |  |  |  |
|     | ITOS catallitas  |  | World Meteorological Organization  |
|     | ITOS satellites  | . tropical meteorology   | zonal flow (meteorology)   |
|     | ITOS 1   | . weather forecasting  | zonal flow (meteorology)   |
|     | ITOS 1 ITOS 2  | . weather forecasting long range weather forecasting   | zonal flow (meteorology)  meteors  |
|     | ITOS 1<br>ITOS 2<br>ITOS 3   | <ul><li>weather forecasting</li><li>long range weather forecasting</li><li>nowcasting</li></ul>  | zonal flow (meteorology)   |
|     | ITOS 1 ITOS 2  | . weather forecasting long range weather forecasting   | zonal flow (meteorology)  meteors  USE meteoroids  |
|     | ITOS 1<br>ITOS 2<br>ITOS 3<br>ITOS 4   | <ul> <li>weather forecasting</li> <li>long range weather forecasting</li> <li>nowcasting</li> <li>numerical weather forecasting</li> </ul>   | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite   |
|     | ITOS 1ITOS 2ITOS 3ITOS 4TIROS 1 satellite  | weather forecasting     long range weather forecasting     nowcasting     numerical weather forecasting     statistical weather forecasting  | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites  |
|     | ITOS 1 ITOS 2 ITOS 3 ITOS 4 ITROS 1 satellite TIROS 2 satellite  | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting RT acid rain   | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites . ESA satellites   |
|     | ITOS 1 ITOS 2 ITOS 3 ITOS 4 TIROS 1 satellite TIROS 2 satellite TIROS 3 satellite  | . weather forecasting long range weather forecasting nowcasting numerical weather forecasting statistical weather forecasting RT acid rain acoustic sounding   | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites  |
|     | ITOS 1ITOS 2ITOS 3ITOS 4TIROS 1 satelliteTIROS 2 satelliteTIROS 3 satelliteTIROS 4 satellite   | . weather forecasting long range weather forecasting nowcasting numerical weather forecasting statistical weather forecasting RT acid rain acoustic sounding aeronomy  | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites . ESA satellites . METEOSAT satellite  |
|     | ITOS 1ITOS 2ITOS 3ITOS 4TIROS 1 satelliteTIROS 2 satelliteTIROS 3 satelliteTIROS 4 satelliteTIROS 5 satellite  | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting RT acid rain acoustic sounding aeronomy agroclimatology  | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites  |
|     | ITOS 1ITOS 2ITOS 3ITOS 4TIROS 1 satelliteTIROS 2 satelliteTIROS 3 satelliteTIROS 4 satellite   | . weather forecasting long range weather forecasting nowcasting numerical weather forecasting statistical weather forecasting RT acid rain acoustic sounding aeronomy  | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites . METEOSAT satellite   |
|     | ITOS 1ITOS 2ITOS 3ITOS 4ITOS 4IIROS 1 satelliteIIROS 2 satelliteIIROS 3 satelliteIIROS 4 satelliteIIROS 5 satelliteIIROS 6 satellite   | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting RT acid rain acoustic sounding aeronomy agroclimatology  | zonal flow (meteorology)  meteors  USE meteoroids  METEOSAT satellite  GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites . METEOSAT satellite ESA spacecraft  |
|     | ITOS 1ITOS 2ITOS 3ITOS 4ITOS 1 satelliteTIROS 1 satelliteTIROS 2 satelliteTIROS 3 satelliteTIROS 4 satelliteTIROS 5 satelliteTIROS 6 satelliteTIROS 7 satellite  | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting RT acid rain acoustic sounding aeronomy agroclimatology air land interactions air masses   | zonal flow (meteorology)  meteors USE meteoroids  METEOSAT satellite GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellite . METEOSAT satellite ESA spacecraft . ESA satellites  |
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| RT  | ITOS 1 ITOS 2 ITOS 2 ITOS 3 ITOS 4 TIROS 1 satellite TIROS 2 satellite TIROS 3 satellite TIROS 4 satellite TIROS 5 satellite TIROS 6 satellite TIROS 6 satellite TIROS 7 satellite TIROS 8 satellite TIROS 8 satellite TIROS N satellite TIROS N series satellite TIROS M TIROS N series satellite TRMM satellite TRMM satellite TRMM satellite TRMM satellite TRMM satellite TRMM satellite Vanguard 2 satellite AgRISTARS project ATS CALIPSO (Pathfinder satellite) cloud photography CloudSat geophysical satellites GOES 1 GOES 2 | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting RT acid rain acoustic sounding aeronomy agroclimatology air land interactions air masses annual variations anticyclones anvil clouds arc clouds ∞ atmospheres Atmospheric & Oceanographic Inform Sys atmospheric density atmospheric physics atmospheric physics atmospheric turbulence baroclinic instability brightness temperature CALIPSO (Pathfinder satellite) cap clouds ceilings (meteorology) cirrocumulus clouds   | zonal flow (meteorology)  meteors  USE meteoroids  METEOSAT satellite  GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites . METEOSAT satellite ESA spacecraft . ESA satellites . METEOSAT satellite  ESA satellites . METEOSAT satellite  RT cloud cover cloud photography European Space Agency European Space programs French satellites French space program infrared photography ISCCP Project meteorology satellite observation weather  meters  USE measuring instruments methacrylate resins  |
| RT  | ITOS 1 ITOS 2 ITOS 2 ITOS 3 ITOS 4 ITOS 1 satellite TIROS 2 satellite TIROS 2 satellite TIROS 3 satellite TIROS 4 satellite TIROS 5 satellite TIROS 6 satellite TIROS 7 satellite TIROS 8 satellite TIROS 9 satellite TIROS 9 satellite TIROS M TIROS M TIROS M TIROS M TIROS M TIROS N series satellites NOAA 6 satellite TRMM satellite TRMM satellite Vanguard 2 satellite AgRISTARS project ATS CALIPSO (Pathfinder satellite) cloud photography CloudSat geophysical satellites GOES 1 GOES 2 GOES 3                              | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting . statistical weather forecasting  RT acid rain acoustic sounding aeronomy agroclimatology air land interactions air masses annual variations anticyclones anvil clouds arc clouds arc clouds atmospheres Atmospheric & Oceanographic Inform Sys atmospheric density atmospheric physics atmospheric turbulence baroclinic instability brightness temperature CALIPSO (Pathfinder satellite) cap clouds ceilings (meteorology) cirrocumulus clouds cirrostratus clouds | zonal flow (meteorology)  meteors  USE meteoroids  METEOSAT satellite  GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites . METEOSAT satellite ESA spacecraft . ESA satellites . METEOSAT satellite  ESA spacecraft . ESA satellite  ESA satellites . METEOSAT satellite  RT cloud cover cloud photography European Space Agency European Space Agency European space programs French satellites French space program infrared photography ISCCP Project meteorology satellite observation weather  meters  USE measuring instruments                          |
| RT  | ITOS 1 ITOS 2 ITOS 2 ITOS 3 ITOS 4 ITOS 1 satellite TIROS 2 satellite TIROS 3 satellite TIROS 4 satellite TIROS 5 satellite TIROS 5 satellite TIROS 6 satellite TIROS 7 satellite TIROS 9 satellite TIROS 9 satellite TIROS 10 satellite TIROS M TIROS N series satellite TIROS M TIROS N series satellite TRMM satellite TRMM satellite Vanguard 2 satellite AgRISTARS project ATS CALIPSO (Pathfinder satellite) cloud photography CloudSat geophysical satellites GOES 1 GOES 2 GOES 3 GOES 4                                       | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting RT acid rain acoustic sounding aeronomy agroclimatology air land interactions air masses annual variations anticyclones anvil clouds arc clouds arc clouds atmospheres Atmospheric & Oceanographic Inform Sys atmospheric density atmospheric turbulence baroclinic instability brightness temperature CALIPSO (Pathfinder satellite) cap clouds ceilings (meteorology) cirrocumulus clouds cirrostratus clouds cirrus shields   | zonal flow (meteorology)  meteors  USE meteoroids  METEOSAT satellite  GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites . METEOSAT satellite ESA spacecraft . ESA satellites . METEOSAT satellite  ESA spacecraft . ESA satellites . METEOSAT satellite  RT cloud cover cloud photography European Space Agency European Space Agency European space programs French satellites French space program infrared photography ISCCP Project meteorology satellite observation weather  meters  USE measuring instruments  methacrylate resins USE acrylic resins |
| RT  | ITOS 1 ITOS 2 ITOS 2 ITOS 3 ITOS 4 ITOS 1 satellite TIROS 2 satellite TIROS 2 satellite TIROS 3 satellite TIROS 4 satellite TIROS 5 satellite TIROS 6 satellite TIROS 7 satellite TIROS 8 satellite TIROS 9 satellite TIROS 9 satellite TIROS M TIROS M TIROS M TIROS M TIROS M TIROS N series satellites NOAA 6 satellite TRMM satellite TRMM satellite Vanguard 2 satellite AgRISTARS project ATS CALIPSO (Pathfinder satellite) cloud photography CloudSat geophysical satellites GOES 1 GOES 2 GOES 3                              | . weather forecasting . long range weather forecasting . nowcasting . numerical weather forecasting . statistical weather forecasting . statistical weather forecasting  RT acid rain acoustic sounding aeronomy agroclimatology air land interactions air masses annual variations anticyclones anvil clouds arc clouds arc clouds atmospheres Atmospheric & Oceanographic Inform Sys atmospheric density atmospheric physics atmospheric turbulence baroclinic instability brightness temperature CALIPSO (Pathfinder satellite) cap clouds ceilings (meteorology) cirrocumulus clouds cirrostratus clouds | zonal flow (meteorology)  meteors  USE meteoroids  METEOSAT satellite  GS artificial satellites . ESA satellites . METEOSAT satellite . meteorological satellites . METEOSAT satellite ESA spacecraft . ESA satellites . METEOSAT satellite  ESA satellites . METEOSAT satellite  RT cloud cover cloud photography European Space Agency European Space programs French satellites French space program infrared photography ISCCP Project meteorology satellite observation weather  meters  USE measuring instruments methacrylate resins  |

. methamphetamine critical path method RT Karl Fischer reagent organic compounds Crocco method Czochralski method methyl chloride . . amphetamines Debye-Scherrer method GS drugs ... methamphetamine Delphi method (forecasting) . anesthetics digital techniques methyl chloride methanation embedded atom method The conversion of various organic DEF emergency breathing techniques compounds to produce methane. Encke method methyl chlorosilanes GS chemical reactions energy methods hydrogen compounds methanation equilibrium methods hydrides biomass energy production . . silanes ethics coal gasification finite element method ... methyl chlorosilanes hydrocarbon fuels finite volume method methyl compounds methyl chlorosilanes hydropyrolysis Fujita method Galerkin method silicon compounds methane **GERT** . silanes GS organic compounds . . methyl chlorosilanes Glimm method hydrocarbons Halphen method . . aliphatic hydrocarbons Hartree-Fock-Slater method methyl compounds . . . alkanes heuristic methods GS methyl compounds . . methane Hill method . acetonitrile RT bioconversion imaging techniques . methyl chlorosilanes chlorofluoromethane in vitro methods and tests . methyl nitrate coal derived gases in vivo methods and tests . methyl polysiloxanes hydrocarbon fuels Jacobi matrix method RT ∞ chemical compounds hydropyrolysis Kieldahl method dimethyl compounds landfills Latin square method organic compounds liquefied natural gas Laue method trimethyl compounds natural gas least squares method natural gas exploration Lighthill method methyl cyanide Neptune atmosphere management methods acetonitrile USE oil fields matrix management petroleum products matrix methods methyl nitrate solvent refined coal maximum entropy method GS alkyl compounds synthane Maxwell-Mohr method . methyl nitrate **Uranus** atmosphere ∞ mechanism methyl compounds method of characteristics . methyl nitrate methanol method of moments nitrogen compounds USE methyl alcohol Milne method . nitrates Milne-Thomson method .. methyl nitrate methenyl minimum entropy method USE methylidyne Moire effects methyl polysiloxanes Monte Carlo method GS methyl compounds methionine multigrid methods . methyl polysiloxanes GS acids Newton-Raphson method silicon polymers . amino acids panel method (fluid dynamics) . silicones . methionine particle in cell technique . . polysiloxanes organic compounds pattern method (forecasting) . amino acids methyl polysiloxanes Percus method RT ∞ polymers . . methionine Pohlhausen method silicon compounds probe method (forecasting) method of characteristics problem solving profile method (forecasting) UF characteristic method methylation RT ∞ characteristics chemical reactions GS Rayleigh-Ritz method compressible fluids . methylation relaxation method (mathematics) flow distribution RT alkylation Ritz averaging method hyperbolic functions ruler method meteorology methylene Runge-Kutta method ∞ methodology organic compounds Schmidt method partial differential equations . hydrocarbons Schwartz method plastic properties . methylene simplex method Prandtl-Meyer expansion dyes spectral methods steady flow staining steepest descent method unsteady flow strain energy methods methylene blue traveling solvent method method of moments dyes GS Van Slyke method DEF A method of estimating the parameters methylene blue von Zeipel method of a distribution by relating the parameters to organic compounds vortex in cell technique moments. . cyclic compounds Wentzel-Kramer-Brillouin method RT distribution moments heterocyclic compounds wing flow method tests integral equations . . . azines mathematical models . . . . methylene blue methods matrices (mathematics) pyrazines USE methodology ∞ methodology . azines procedures moment distribution . methylene blue moments methoxy systems RT chemical analysis numerical analysis chemical indicators RT alcohols ∞ indicators ∞ chemical compounds methodology staining indoles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) methods organic chemistry methylene diamine organic compounds GS organic compounds UF pyrroles techniques . amines systems approximation . . methylene diamine asymptotic methods methyl alcohol Biot method methanol UF methylhydrazine boundary integral method GS hydroxyl compounds hydrazines GS

. alcohols . . methyl alcohol

. methylhydrazine

. . monomethylhydrazines

Bridgman method

cluster variation method

| RT dimethylhydrazines   | RT         | Mexico   |          | Electrically charged colloidal particles                                       |
|---|------------|--|----------|--|
| methylidyne   | Mexico     |  |          | consisting of oriented molecules; aggre-<br>a number of molecules held loosely |
| (added June 1993)   |            | nations  |          | by secondary bonds.  |
| UF CH (methylidyne)   |            | . Mexico   |          | molecular clusters   |
| methenyl  | RT         | Colorado River (North America)                     |          | . micelles   |
| GS organic compounds  |            | Gulf of California (Mexico)                        | RT       | agglomeration  |
| . hydrocarbons  |            | Gulf of Mexico                                     |          | aggregates   |
| methylidyne   |            | Imperial Valley (CA)                               |          | block copolymers   |
| radicals  |            | Lower California (Mexico)<br>Mexican space program | ∞        | clusters<br>colloids   |
| . <b>methylidyne</b><br>RT ∞ aromatic compounds   |            | North America                                      |          | flocculating   |
| carbon compounds  |            | Rio Grande (North America)                         |          | nanostructure (characteristics)  |
| diatomic molecules  |            | San Andreas Fault                                  |          | self assembly  |
| interstellar gas  |            | Southern California                                |          | ,  |
| interstellar matter   |            |  |          | reaction   |
| molecular clouds  |            | icroscopy)   | GS       | chemical reactions   |
| M. d.   |            | d June 2004) magnetic force microscopy             |          | . Michael reaction   |
| Metis   | USL        | magnetic force microscopy                          | Michaeli | is theory  |
| (added January 1996) DEF A natural satellite of Jupiter orbiting at                         | MGCO       |  |          | theories   |
| a mean distance of 127,960 kilometers.  | USE        | Mars Observer                                      |          |  |
| GS celestial bodies   |            |  | Michell  |  |
| . natural satellites  |            | pacecraft)   | GS       | theorems   |
| Jupiter satellites  | ,          | d March 1999)                                      | DT       | Michell theorem  |
| Metis   | USE        | Mars Global Surveyor                               | RI       | stress analysis  |
| RT Jupiter (planet)   | MH-262     | aircraft   |          | structural analysis  |
|   |            | Max Holste MH-262 aircraft                         | Michels  | on interferometers   |
| metric conversion   |            | Nord 262 aircraft                                  |          | measuring instruments  |
| USE metrication   | GS         | jet aircraft                                       |          | . interferometers  |
| metric photography  |            | . turboprop aircraft                               |          | Michelson interferometers  |
| DEF The recording of events by means of   |            | MH-262 aircraft                                    | RT       | astrophysics   |
| photography (either singly or sequentially), to-  |            | light aircraft                                     |          | radio astronomy  |
| gether with appropriate metric coordinates to   |            | . MH-262 aircraft monoplanes                       |          | spectrometers  |
| form the basis for accurate measurements.   |            | . MH-262 aircraft                                  | Michiga  | n  |
| GS imagery  |            | Nord aircraft                                      |          | nations  |
| . photography   |            | . MH-262 aircraft                                  |          | . United States  |
| metric photography  |            | transport aircraft                                 |          | Michigan   |
| metric space  |            | MH-262 aircraft                                    | RT       | Pontiac (MI)   |
| GS geometry   | RT ∞       | aircraft   |          | Saginaw Bay (MI)   |
| . topology  |            | cargo aircraft                                     | microan  | alveie   |
| metric space  |            | passenger aircraft                                 |          | chemical tests   |
| Hilbert space   | mica       |  | 00       | . chemical analysis  |
| Sobolev space   | UF         | fluoromica   |          | microanalysis  |
| RT Banach space   | GS         | minerals   | RT       | electron microscopes   |
| bimetric theories   |            | . mica   |          | electron microscopy  |
| metric system   |            | biotite  |          | electrophotometry  |
| USE International System of Units   |            | fluorophlogopite                                   |          | inductively coupled plasma mass  |
| ool momandid dystom or omes   | DT         | muscovite igneous rocks                            |          | spectrometry   |
| metrication   | RT         | vermiculite  | ~        | mass spectrometers materials tests   |
| DEF The conversion on an industry and/or  |            | vermedite  |          | neutron activation analysis  |
| nationwide basis of English units of measure-   | micarta    |  |          | qualitative analysis   |
| ment into the International System of Units,  | GS         | composite materials                                |          | quantitative analysis  |
| including engineering and manufacturing stan-   |            | . polymer matrix composites                        |          | scanning electron microscopy   |
| dards, tools and instruments, and all affected areas in the government and private sectors. |            | . reinforced plastics                              |          | spectroscopic analysis   |
| Used for metric conversion.   |            | micarta  |          | transmission electron microscopy   |
| UF metric conversion  |            | plastics . reinforced plastics                     |          | x ray analysis   |
| RT ∞ conversion   |            | micarta  | microba  | lances   |
| International System of Units   |            | . synthetic resins                                 |          | microscales  |
| metrology   |            | thermosetting resins                               | GS       | measuring instruments  |
| standardization   |            | phenolic resins                                    |          | . indicating instruments   |
| units of measurement  |            | micarta  |          | weight indicators  |
| motrology   |            | resins   |          | microbalances  |
| metrology  DEF The science of dimensional measure-  |            | . synthetic resins                                 | miaraba  | llaana   |
| ment; sometimes includes the science of weigh-  |            | thermosetting resins phenolic resins               | microba  | Very small glass spheres (50 to 100  |
| ing.  |            | micarta  |          | ters in diameter) used as targets in the                                       |
| RT International System of Units  | RT         | fabrics  |          | ion programs.  |
| ∞ measurement   |            | fiber composites                                   |          | expandable structures  |
| measuring instruments   |            | insulation   |          | . inflatable structures  |
| metrication   | ∞          | polymers   |          | balloons   |
| standards<br>units of measurement   |            |  | DT       | microballoons  |
| unito di measurement  | mice<br>GS | animals  | RT       | globules<br>lasers   |
| Metropolitan aircraft   | 33         | . vertebrates                                      |          | spheres  |
| USE CV-440 aircraft   |            | mammals  |          | targets  |
|   |            | rodents  |          | <del>3                                </del>                                   |
| metropolitan areas  |            | mice   | microbe  |  |
| USE cities  |            | jerboas  | USE      | microorganisms   |
|   |            | knockout mice                                      |          |  |
| Mexican space program   | CT         | pocket mice  | microbe  |  |
| (added March 1989)<br>GS programs   | RT         | rats   | GS       | beams (radiation) . microbeams   |
| . space programs  | micelles   |  | RT       | collimation  |
| Mexican space program   |            | d June 2001)                                       | 131      | crystallography  |
| - L   | ,          | ,  |          |  |

x ray analysis minicomputers transistor circuits microcracks microbiology microfibers microbiology GS fractures (materials) GS . bacteriology . cracks GS fibers RT ∞ biology cell culturing . microfibers . microcracks crack closure microfilms crack geometry culture media photographic film GS culture techniques crack initiation microfilms Elber equation cultured cells surface cracks data retrieval gnotobiotics data storage organ culturing microcrystals microphotographs tissue culturing readers crystals GS reproduction (copying) . microcrystals microbursts (meteorology) crystallites (EXCLUDES IONOSPHERIC RADIATION MICROBURSTS)
A strong, localized downdraft that microfluidic devices nanocrystals (added October 2003) spherulites DEF Various devices that incorporate one strikes the ground creating an outflow of severe or more micro-scale fluid channels where meawinds near the ground that diverge radically Microcystis surements, analysis, reactions, and separations from the impact point. GS plants (botany) occur. Often applied in systems for chemical analysis, biochemical sensing, and cytometry. GS meteorology . algae . micrometeorology . . blue green algae fluidic circuits . . microbursts (meteorology) . Microcystis fluidics . thermophilic plants storms . . blue green algae microelectromechanical systems . storms (meteorology) . . downbursts . . Microcystis microinstrumentation .. microbursts (meteorology) pollution aviation meteorology micrography USE photomicrography flight hazards microdensitometers DEF Image analysis devices for resolving thunderstorms microgravity gray-level differences within or between features vertical air currents A condition in which the acceleration and for integrating the optical density across wind shear acting on a body is less than normal gravity, between 0 and 1 g. Used for low gravity, reduced scanned images of irregularly shaped objects. GS measuring instruments microcalorimeters gravity, and subgravity. . densitometers USE calorimeters hypogravity low gravity . . microdensitometers . optical measuring instruments microchannel plates reduced gravity subgravity . microdensitometers An array of microchannels formed into optical equipment plates and contained in a photomultiplier tube. Used for multichannel plates.

UF multichannel plates

RT channel multipliers . optical measuring instruments GS gravitation microdensitometers microgravity RT antigravity gravimeters bioprocessing optical density dynamic range optical measurement clinorotation integrated circuits clinostats photometers microchannels drop towers microwave equipment Earth orbital environments microelectromechanical systems (added October 1998) photomultiplier tubes fluid management ∞ plates high gravity environments MEMS (electromechanical devices) thin films electromechanical devices
. microelectromechanical systems
. microoptoelectromechanical low gravity manufacturing GS low weight microchannels Marangoni convection frequencies RT microgravity applications systems image converters space processing electroactive polymers light amplifiers thermocapillary migration microfluidic devices microchannel plates weightlessness microinstrumentation multi-anode microchannel arrays microminiaturization night vision ∞ microgravity applications microminiaturized electronic devices optical equipment (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS microsatellites photocathodes nanosatellites LISTED BELOW) bioprocessing ultraviolet radiation nanotechnology piezoelectric actuators commerce lab microcircuits piezoelectric motors crystal growth USE microelectronics electrophoresis microelectronics low gravity manufacturing microclimatology UF microcircuits microgravity climatology GS GS microelectronics space commercialization microclimatology . large scale integration space manufacturing agroclimatology space processing surface tension driven convection . medium scale integration biometeorology very large scale integration micrometeorology RT beam leads tissue engineering chips (electronics) circuits microcomputers microhardness DEF Complete digital computers utilizing a ∞ electronics microindentation microprocessor consisting of one or more inteencapsulated microcircuits mechanical properties grated circuit chips as the central arithmetic and ion implantation . hardness logic unit, and added chips to provide timing, laser microscopy . . microhardness program memory, random access memory intermicroinstrumentation . . Knoop hardness faces for input and output signals and other microminiaturization nanoindentation functions. Some microcomputers consist of a microminiaturized electronic devices Rockwell hardness single integrated-circuit chip. micromodules data processing equipment microoptoelectromechanical systems microindentation . computers molecular electronics USE microhardness . . digital computers

nanotechnology

photolithography

single event upsets

systems-on-a-chip

photomasks

photoresists

microinstrumentation

measuring instruments

microelectronics

microfluidic devices

microelectromechanical systems

... microcomputers

RT microprocessors

. . . . personal computers

. . . . IBM personal computers

. . . Macintosh personal computers

microminiaturization micromachining

(added September 1993)

DEF Performing various microscopic scale cutting or grinding operations on a piece of work.

machining
. micromachining

cutting drilling

grinding (material removal) grooving laser cutting laser drilling metal cutting metal working micromechanics microstructure photoengraving photomasks photomechanical effect surface finishing

V arooves

micromanometers USE manometers

#### micromechanics

The study of the constraints, the grain size, and their interrelationship in materials.

composite materials crack propagation fracture mechanics mechanical properties ∞ mechanics (physics) micromachining

microoptoelectromechanical systems microstructure

reinforcing fibers stress concentration

#### micrometeorites

DEF Very small meteorites or meteoritic particles with a diameter in general less than a millimeter.

celestial bodies . meteorites

. micrometeorites

cosmic dust hypervelocity projectiles meteoroids micrometeoroids space weathering tektites zodiacal dust

#### Micrometeoroid Explorer satellites

GS artificial satellites

. scientific satellites . . Explorer satellites

... Micrometeoroid Explorer satellites

#### micrometeoroids

meteoritic dust micrometeors celestial bodies . meteoroids

. . micrometeoroids

... meteoroid dust clouds

. . . zodiacal dust RT cosmic dust Explorer satellites interplanetary dust meteor trails meteorites micrometeorites

Poynting-Robertson effect space debris

terrestrial dust belt zodiacal light

#### micrometeorology

meteorology

. micrometeorology

. microbursts (meteorology)

agrometeorology mesometeorology microclimatology

turbulence

micrometeors

USE micrometeoroids

#### micrometers

Instruments for making precise linear measurements in which the displacements measured correspond to the travel of a screw of accurately known pitch.

measuring instruments

micrometers

RT dimensional measurement distance measuring equipment

#### micromilliammeters

measuring instruments

ammeters

. micromilliammeters

electric current electrical measurement galvanometers

#### microminiaturization

GS miniaturization

. microminiaturization

circuits

DTL integrated circuits integrated circuits large scale integration linear integrated circuits

microelectromechanical systems

microelectronics microinstrumentation

microminiaturized electronic devices

miniature electronic equipment

molecular electronics

nanosatellites semiconductor devices

subminiaturization thick films

thin films TTL integrated circuits wafers

### microminiaturized electronic devices

#### microminiaturized electronic devices GS

micromodules

microelectromechanical systems

microelectronics microminiaturization

microsatellites miniature electronic equipment

nanosatellites systems-on-a-chip

#### micromodules

electronic equipment . electronic modules

. micromodules

microminiaturized electronic devices

. micromodules

modules

. electronic modules

. micromodules

beam leads ∞ containers

electronic packaging

microelectronics microprocessors

miniature electronic equipment

photolithography

#### micromotors

(EXCLUDES ROCKET ENGINES) electromechanical devices

. electric motors

. . micromotors

motors

. electric motors

. micromotors

piezoelectric motors

# microoptoelectromechanical systems

(added December 2005)

DEF Integrated, hybrid micro-systems that include mechanical structures, microelectronics, and optics, and allow the dynamic manipulation of light beams for applications such as optical switches, tunable filters and lasers, displays, and specialized sensors.

MOEMS

optical MEMS

electromechanical devices . microelectromechanical systems

. . microoptoelectromechanical

systems

RT actuators microelectronics micromechanics

optoelectronic devices ∞ sensors

systems-on-a-chip

#### microorganisms

microbe microorganisms

. bacteria . . actinomycetes

. . archaebacteria

. . Azotobacter

. . Bacillus . . . stearothermophilus

. . Clostridium

. Clostridium botulinum Escherichia

. . hydrogenomonas

. . Klebsiella

. . nitrobacter

. . pseudomonas . . salmonella

. . sarcina

. . serratia

. . staphylococcus . . streptococcus

. streptomycetes . protozoa

. . amoeba . . . pelomyxa

. . Flagellata . . . Euglena

. . . trypanosome

paramecia . Rotifera

. viruses

. . adenoviruses

bacteriophages

. . human immunodeficiency virus

RT aerobes algae

anaerobes animals antibiotics biofilms

gnotobiotics invertebrates mesophiles

microparticles microspores plants (botany)

pollution psychrophiles red tide saprophytes spores virulence

#### microparticles

particles GS

. microparticles

condensation nuclei ferrofluids

microorganisms particulate reinforced composites

### microphones

DEF Electroacoustic transducers which receive acoustic signals and deliver corresponding electric signals.

GS audio equipment microphones transducers

. sound transducers

. . electroacoustic transducers

. microphones hydrophones

> interphones magnetic transducers

#### microphotographs

monaural signals transmitters ultrasonic wave transducers

#### microphotographs

photographs microphotographs data storage microfilms

photography photomasks

microphotometers USE photometers

#### microplasmas

particles

. charged particles

. . energetic particles . . . plasmas (physics)

.... microplasmas

. corpuscular radiation

. . energetic particles . . . plasmas (physics)

.... microplasmas

### micropolar fluids

incompressible fluids micropolar fluids

fluid mechanics ∞ fluids

microstructure

#### microporosity

porosity

microporosity

RT mechanical properties metallography microstructure

#### microprocessors

computer components

. microprocessors

. Intel 8080 microprocessor data processing equipment

microprocessors

. Intel 8080 microprocessor

central processing units chips (electronics) computer design

computer storage devices computer techniques data processing

distributed processing

firmware integrated circuits

large scale integration microcomputers micromodules

onboard data processing transputers

# microprogramming

GS computer programming

microprogramming

firmware

∞ programming

# micropulsations

pulses

micropulsations

geomagnetic micropulsations

RT variations

# microrocket engines

GS engines

. rocket engines

. . microrocket engines ... Orbit Maneuvering Engine (Space

Shuttle)

electric rocket engines electrostatic engines microthrust Vernier engines

#### microsatellites

(added October 1998)

DEF Satellites with a total mass between 10 and 100 kg often incorporating miniaturized electronic and mechanical systems.

UF microsats

GS artificial satellites

microsatellites

microelectromechanical systems

microminiaturization

microminiaturized electronic devices

nanosatellites

satellite constellations satellite design

small satellite technology small scientific satellites

#### microsats

RT

(added October 1998) USE microsatellites

microscales

USE microbalances

#### microscopes

DEF Optical instruments capable of producing a magnified image of a small object.

GS microscopes

acoustic microscopes

. electron microscopes

ion microscopes

. optical microscopes

binoculars

eyepieces metallography

microscopy

optical equipment optical measuring instruments

photomicrography

ultraviolet microscopy

microscopy
DEF The science of the interpretive use and

#### GS

microscopy
. atomic force microscopy

. electron microscopy

. . scanning electron microscopy

scanning tunneling microscopy

. . transmission electron microscopy

laser microscopy

magnetic force microscopy

photoacoustic microscopy ultraviolet microscopy

RT cytometry microscopes

microtomy phase contrast photomicrography slides (microscopy)

#### microseisms

Seismic pulses of short duration and low amplitude, often ocurring previous to failure of a material or structures.

elastic waves

. seismic waves

. microseisms RT crustal fractures

earthquake damage earthquakes

#### microsonics

GS acoustics

microsonics

elastic properties piezoelectric crystals sound fields

sound waves

surface acoustic wave devices surface waves

### microspores

GS spores

microspores

funai

microorganisms plants (botany) protozoa

#### microstrip antennas

DEF Antennas which consist of thin metallic conductors bonded to thin grounded dielectric substrates. The metallic conductors generally have some regular shape, for example, rectangular, circular, or elliptical. Feeding is often by means of a coaxial probe or a microstrip trans-

GS antennas

. microstrip antennas microstrip devices

. microstrip antennas

antenna design microstrip transmission lines

microwave antennas patch antennas waveguide antennas

#### microstrip devices

GS microstrip devices

microstrip antennas

. microstrip transmission lines

circuits

integrated circuits microwave circuits microwave equipment

#### microstrip transmission lines

flat coaxial transmission lines

parallel strip lines GS microstrip devices

microstrip transmission lines

transmission lines

. strip transmission lines

microstrip transmission lines

directional couplers microstrip antennas microwave transmission

# microstructure

GS microstructure

. meteoritic microstructures

. nanostructure (characteristics)

. Widmanstatten structure

aging (materials) aging (metallurgy) antiphase boundaries

atomic force microscopy austenite bainite Bauschinger effect

cast alloys casting castings cementite crystal structure crystallography ferrites

grain size hardening (materials) heat treatment

kink bands lamella (metallurgy) Laves phases martensite metallography micromachining micromechanics micropolar fluids

microporosity molecular dynamics

order-disorder transformations Ostwald ripening

pearlite . photomicrography precipitates quenching (cooling) shape memory alloys

silicon alloys spherulites ∞ structures

thermomechanical treatment vanadium alloys work softening

# microthrust

(NOT USED FOR GEOLOGICAL FAULTS, SEISMOLOGY, OR TECTONICS) SN

thrust

. low thrust

. . microthrust

iet thrust low thrust propulsion

microrocket engines rocket thrust

variable thrust

#### microtomy

medical equipment RT microscopy

#### microtrons

particle accelerators GS

cyclotrons microtrons

betatrons synchrotrons

#### microvision landing aid

GS display devices . microvision landing aid

landing aids

microvision landing aid

#### microwave absorption

(added August 1991)

The absorption of electromagnetic radiation in the microwave frequency range.

energy absorption

. radiation absorption

. . electromagnetic absorption

.. microwave absorption

RT absorptance

∞ absorption

absorption spectra absorptivity

activation

atmospheric attenuation

microwave attenuation microwave frequencies

microwave scattering

microwave transmission

microwaves

radar

radar absorbers

#### microwave amplifiers

GS amplifiers

microwave amplifiers

. . crossed field amplifiers

. . cyclotron resonance devices

. . planotrons

microwave equipment

microwave amplifiers . . crossed field amplifiers

. . cvclotron resonance devices

. planotrons

interstellar masers

masers

parametric amplifiers

transferred electron devices

# Microwave Anisotropy Probe (added November 2002)

Spacecraft and related mission to map the relative cosmic microwave background temperature over the full sky with a high angular resolution and sensitivity. Launched June 2001.

MAP (space probe) GS

unmanned spacecraft

. space probes

Microwave Anisotropy Probe

cosmic microwave background radiation

relic radiation

spaceborne astronomy

### microwave antennas

GS antennas

. radio antennas

. . microwave antennas

. . . horn antennas

. . . lens antennas

. . . rectennas

. . spacetennas

microwave equipment

microwave antennas

. . horn antennas

. . lens antennas

. . rectennas

. . spacetennas

radio equipment

. radio antennas

. . microwave antennas . . . horn antennas

. . . lens antennas

. . . rectennas

. . spacetennas

RT aircraft antennas

antenna arrays

backfire antennas

directional antennas

Gregorian antennas

helical antennas

microstrip antennas

missile antennas multibeam antennas

omnidirectional antennas

parabolic antennas

parabolic reflectors

patch antennas

radar antennas

reflector antennas

slot antennas

waveguide antennas

#### microwave attenuation

GS attenuation

microwave attenuation

transmission

. electromagnetic wave transmission

. . microwave attenuation

signal transmission

. microwave attenuation

microwave absorption wave propagation

#### microwave circuits

GS circuits

. microwave circuits

RT microstrip devices

# microwave coupling

coupling GS

. electromagnetic coupling

microwave coupling

antenna couplers

coupling circuits

cross coupling

directional antennas directional couplers

optical coupling

microwave emission

GS electromagnetic radiation . radio waves

. . short wave radiation

. . . microwaves

. . . . microwave emission

emission microwave emission

cosmic noise

diffraction radiation

extraterrestrial radiation extraterrestrial radio waves

linear polarization

microwave signatures stellar radiation

#### microwave equipment GS microwave equipment

. gyrators

. . microwave filters

. microwave amplifiers

. . crossed field amplifiers

cyclotron resonance devices

. . planotrons

. microwave antennas

. . horn antennas . . lens antennas

. . rectennas

. . spacetennas

. microwave interferometers . microwave oscillators

. . magnetrons

. . . nigotrons

. microwave probes

. . microwave plasma probes . microwave radiometers

. . Advanced Microwave Sounding Unit

. microwave scanning beam landing

system . microwave tubes

. . celescopes

. . cyclotron resonance devices

. . klystrons

. . magnetrons

. . . nigotrons

. . planotrons

. . traveling wave tubes . . . backward wave tubes

. . . . helitrons

. . . carcinotrons

. thyratrons

gas discharge tubes microchannel plates microstrip devices

# microwave filters

GS electromagnetic wave filters

. electric filters

. . microwave filters

microwave equipment

. gyrators

. microwave filters

bandpass filters bandstop filters

digital filters

FIR filters

high pass filters low pass filters

radar filters radio filters

rectangular waveguides tunable filters

waveguide filters

microwave frequencies

(1 TO 100 GHZ) frequencies . radio frequencies

.. microwave frequencies

... C band

... extremely high frequencies P band

. . superhigh frequencies

acoustic microscopes

centimeter waves microwave absorption

microwaves passive L-band radiometers praetersonic devices

microwave holography

GS imagery

. photography . . holography

. . microwave holography

RT imaging techniques microwaves

# wave front reconstruction

microwave imagery

imagery GS microwave imagery

radarscopes synthetic aperture radar

# x ray imagery

microwave interferometers GS measuring instruments . interferometers

. microwave interferometers

microwave equipment

microwave interferometers RT Fabry-Perot interferometers plasma diagnostics

microwave landing systems DEF A precision instrument approach landing system operating in the microwave spectrum which provides lateral and vertical guidance to aircraft having compatible avionics equipment.

GS landing aids

. microwave landing systems

. . microwave scanning beam landing system RT air traffic control

aircraft landing aircraft safety

approach control automated en route ATC automatic landing control

601

∞ systems

#### microwave oscillators

GS microwave equipment . microwave oscillators

- . . magnetrons
- . . nigotrons
- oscillators

#### . microwave oscillators

- . . magnetrons
- . . nigotrons

backward wave tubes

Barritt diodes diffraction radiation

gas discharge tubes

klystrons

microwave tubes

superconducting cavity resonators

transferred electron devices traveling wave tubes

vacuum tube oscillators

voltage controlled oscillators

#### microwave photography

GS imagery

- . photography
- microwave photography

radar data radar photography radarscopes

#### microwave plasma probes

GS measuring instruments

- . microwave probes
- microwave plasma probes

microwave equipment

- . microwave probes
- microwave plasma probes

electron probes

plasma flux measurement

plasmaguides plasmas (physics) resonance probes

microwave power beaming (added November 1989) UF power transmission (microwave)

power beaming GS

microwave power beaming

laser power beaming microwave transmission satellite power transmission spacecraft power supplies

# microwave probes

GS measuring instruments . microwave probes

- . microwave plasma probes

microwave equipment

- microwave probes
- . microwave plasma probes
- RT radio frequency impedance probes

microwave radiation USE microwaves

#### microwave radiometers

GS measuring instruments

- . radiation measuring instruments
- . . actinometers
- . . . radiometers

# . . . . microwave radiometers

. . . . Advanced Microwave Sounding

Unit

microwave equipment

- microwave radiometers
   Advanced Microwave Sounding Unit

# microwave reflectometers

GS measuring instruments

- . optical measuring instruments
- . . reflectometers
- . . . microwave reflectometers

optical equipment . optical measuring instruments

. . reflectometers ... microwave reflectometers RT kinematics

#### microwave resonance

resonance

. microwave resonance

cavity resonators harmonic analysis nonresonance

microwave scanning beam landing system
DEF Primary position sensor of Space
Shuttle orbiter's navigation system during the autoland phase of the flight. Used for MSBLS.

UF MSBLS GS

landing aids

. microwave landing systems

. . microwave scanning beam landing system

microwave equipment

. microwave scanning beam

landing system

navigation aids

. microwave scanning beam

landing system approach indicators

Space Shuttle orbiters ∞ systems

#### microwave scattering

GS scattering

- . radio scattering
- . . microwave scattering

- . wave scattering
  . electromagnetic scattering

. . microwave scattering

atmospheric scattering microwave absorption microwave signatures

scatterometers Sunyaev-Zeldovich effect

#### microwave sensors

GS measuring instruments

- . microwave sensors
- . . Advanced Microwave Sounding Unit

RT ∞ instruments

radar receivers

∞ sensors

signal detectors

synthetic aperture radar

# microwave signatures

(added September 1988) GS signatures

. spectral signatures

. microwave signatures

backscattering RT microwave emission

microwave scattering

microwaves

radar signatures

signature analysis

# microwave sounding

sounding

microwave sounding

Advanced Microwave Sounding Unit imagery

microwaves NOAA 12 satellite rocket sounding

# microwave spectra

interstellar microwave spectra

GS spectra

. radiation spectra . . electromagnetic spectra

. . . radio spectra

... microwave spectra absorption spectra

infrared spectra molecular rotation molecular spectra molecular spectroscopy

# microwave spectrometers

GS measuring instruments spectrometers

#### .. microwave spectrometers

microwave switching

GS switching

microwave switching

ferroelectricity gyrators packet switching phase shift switching circuits

# waveguides microwave transmission

GS transmission

- . electromagnetic wave transmission . radio transmission
- . . microwave transmission
- . signal transmission
- . . radio transmission
- . microwave transmission

ACTS RT

circular waveguides

dielectric waveguides

domestic satellite communications

systems downlinking

Fleet Satellite Communication System

frequency reuse laser power beaming

microstrip transmission lines

microwave absorption microwave power beaming

power beaming satellite solar energy conversion

satellite solar power stations

spacetennas teletypewriter systems

uplinking VSAT (network) wave propagation

microwave tubes GS electron tubes

waveguides

. vacuum tubes .. microwave tubes

. . . celescopes

cyclotron resonance devices

klystrons magnetrons

. . . . nigotrons

planotrons

... traveling wave tubes

. . . . backward wave tubes

.... helitrons . . . carcinotrons

#### microwave equipment . microwave tubes

. celescopes cyclotron resonance devices

. . klystrons

. . magnetrons

. nigotrons . . planotrons

. . traveling wave tubes

... backward wave tubes . helitrons

. carcinotrons RT diffraction radiation

gas discharge tubes microwave oscillators

oscillators photomultiplier tubes

phototubes triodes ∞ tubes

## microwaves

DEF Of, or pertaining to, radiation in the microwave region. Used for microwave radia-

microwave radiation

GS electromagnetic radiation . radio waves

. . short wave radiation ... microwaves

. . . . centimeter waves . . . . cosmic microwave background

radiation

. . . . decimeter waves

... microwave emission ... Midas 4 satellite free atmosphere . . . . millimeter waves heterosphere cosmic noise Midas 5 satellite homosphere GS artificial satellites diffraction radiation lower atmosphere electromagnetic noise . Midas satellites midlatitude atmosphere extraterrestrial radio waves . Midas 5 satellite tropopause infrared radiation military spacecraft upper atmosphere microwave absorption . reconnaissance spacecraft zonal flow (meteorology) microwave frequencies . . Midas satellites microwave holography ... Midas 5 satellite middle ear microwave signatures GS anatomy Midas 6 satellite microwave sounding . sense organs GS artificial satellites ∞ radiation . . ear . Midas satellites .. middle ear satellite solar energy conversion satellite solar power stations . Midas 6 satellite semicircular canals military spacecraft scatterometers submillimeter waves reconnaissance spacecraft middle ear pressure whistlers . . Midas satellites pressure ... Midas 6 satellite . middle ear pressure ear pressure test microweighing Midas 7 satellite eardrums USE weight measurement GS artificial satellites . Midas satellites Middle East microyield strength . Midas 7 satellite (added December 1995) DEF Stress at which a microstructure (single crystal, for example) exhibits a specified military spacecraft regions . reconnaissance spacecraft Middle East deviation in its stress-strain relationship. . . Midas satellites Africa GS mechanical properties ... Midas 7 satellite Asia . yield strength Europe . microyield strength Midas satellites RT elastic properties GS artificial satellites midlatitude atmosphere ∞ strength . Midas satellites Earth atmosphere stresses . . Midas 2 satellite . midlatitude atmosphere yield point . . Midas 3 satellite environments . . Midas 4 satellite . midlatitude atmosphere micturition . . Midas 5 satellite RT Earth ionosphere USE urination . . Midas 6 satellite middle atmosphere Midas 7 satellite sporadic E layer midair collisions military spacecraft midlatitudes . reconnaissance spacecraft collisions . midair collisions Midas satellites USE temperate regions . bird-aircraft collisions Midas 2 satellite mid-ocean ridges (added July 1992) DEF Continuous, seismic, median mountain air traffic control Midas 3 satellite . Midas 4 satellite . Midas 5 satellite aircraft accidents aircraft hazards aircraft safety Midas 6 satellite ranges extending through the North and South Beacon Collision Avoidance System collision avoidance Atlantic Oceans, the Indian Ocean and the Midas 7 satellite RT Atlas Agena B launch vehicle South Pacific Ocean. They are broad fractured swells with a central rift valley and usually rugged topography. They are 1-3 km in elevation, about 1500 km in width, and over 84,000 crashes midcourse guidance flight hazards guidance (motion)
. midcourse guidance
command guidance
inertial guidance flight safety GS km in length. According to the hypothesis of sea pilot error floor spreading, the mid-ocean ridges are the threat evaluation source of crustal material. injection guidance rendezvous guidance spacecraft guidance UF mid-oceanic ridges midaltitude Atlantic Ocean DEF The average of many measurements of altitudes as with satellite instruments for the geological faults Indian Ocean ocean bottom terminal guidance compiling of planetary maps. transearth injection altitude GS oceanography Pacific Ocean midaltitude translunar injection flight altitude midcourse trajectories high altitude trajectories sea floor spreading GS low altitude . midcourse trajectories ascent trajectories seamounts seismology Midas 2 satellite ballistic trajectories submarine hydrothermal vents GS artificial satellites coasting flight . Midas satellites descent trajectories mid-oceanic ridges . Midas 2 satellite parabolic flight USE mid-ocean ridges military spacecraft . reconnaissance spacecraft middle atmosphere Mie scattering . . Midas satellites The portion of the Earth's atmosphere DEF Any scattering produced by spherical ... Midas 2 satellite extending from the troposphere to 100 kilomeparticles without special regard to comparative size of radiation wavelength and particle diam-Midas 3 satellite GS Earth atmosphere eter. Used for Mie theory. GS artificial satellites middle atmosphere UF Mie theory . Midas satellites . . mesosphere scattering . Midas 3 satellite . wave scattering

... mesopause

. . stratosphere

. . . ozonosphere

. . stratopause

atmospheric chemistry

atmospheric circulation

equatorial atmosphere

atmospheric composition

air pollution

∞ atmospheres

chemosphere

climatology

# Midas 4 satellite

GS artificial satellites

. Midas satellites

. Midas 4 satellite

military spacecraft

. . Midas satellites

... Midas 3 satellite

military spacecraft

. reconnaissance spacecraft

. reconnaissance spacecraft

. . Midas satellites

DEF Any of a series of Soviet fighter aircraft, fighter-bombers, interceptors, and air supremacy aircraft, designed by Mikoyan.

. . electromagnetic scattering

... Mie scattering

. . . . Rayleigh scattering

GS attack aircraft

Mie theory
USE Mie scattering

|            | . fighter aircraft                         |          | short takeoff aircraft                        |          | EH-101 helicopter                                   |
|------------|--|----------|---|----------|---|
|            | MiG aircraft                               |          | SR-71 aircraft                                |          | light helicopters                                   |
|            | single engine aircraft                     |          | submersible aircraft                          | ~        | military aircraft                                   |
|            | MiG aircraft                               |          | tailless aircraft                             |          | reconnaissance aircraft                             |
|            | supersonic aircraft                        |          | tanker aircraft                               |          | terrain following                                   |
| DT.        | . MiG aircraft                             |          | target drone aircraft                         | military | operations  |
| KI ∝       | o aircraft                                 |          | training aircraft                             |          | operations military operations                      |
| migratio   | on   |          | transport aircraft unmanned aircraft systems  | 63       | . combat  |
| RT         | behavior                                   |          | utility aircraft                              |          | . electronic warfare                                |
| 13.1       | phenology                                  |          | V-22 aircraft                                 | RT       | deployment  |
|            | waterfowl                                  |          | V/STOL aircraft                               |          | military personnel                                  |
|            | Wateriowi                                  |          | vertical takeoff aircraft                     |          | tactics   |
| Mil airc   | raft                                       |          | weapon systems                                |          | tanks (combat vehicles)                             |
|            | ∘ aircraft                                 |          | X-45 aircraft                                 |          | ,   |
|            |  |          | YC-14 aircraft                                | military | personnel   |
| Milanko    | vitch theory                               |          | YF-12 aircraft                                |          | ed June 2004)                                       |
|            | climatology                                |          |   |          | Persons serving in any branch of the                |
|            |  | military | aviation                                      |          | orces; members of a military force.                 |
| military   | air facilities                             | SN       | (USE OF A MORE SPECIFIC TERM IS               | GS       | personnel   |
| UF         | aircraft bases                             |          | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)    |          | military personnel                                  |
| RT         | air traffic control                        | RT 。     | • aeronautics                                 | RT       | military operations                                 |
| ~          | ∘ aircraft                                 |          | air law                                       |          | military psychology                                 |
|            | aircraft carriers                          |          | armed forces                                  |          | police  |
|            | airports                                   |          | aviation meteorology                          | militan  | novohiotny  |
|            | o facilities                               |          | bomber aircraft                               |          | ps <i>ychiatry</i><br>military psychology           |
| ~          | • fields                                   |          | fighter aircraft                              | USL      | military psychology                                 |
|            | hangars                                    | ۰        | o military aircraft                           | military | psychology  |
|            | heliports                                  |          | reconnaissance aircraft                       | UF       | military psychiatry                                 |
|            | landing aids                               |          |   |          | psychology  |
|            | landing mats                               | military | compact reactors                              | 00       | . military psychology                               |
|            | navigation aids                            | UF       | MCR reactors                                  | RT       | aviation psychology                                 |
|            | stations                                   | GS       | nuclear reactors                              | 111      | military personnel                                  |
|            |  |          | . liquid cooled reactors                      |          | psychiatry  |
| ∞ military |  |          | liquid metal cooled reactors                  |          | psychological effects                               |
| SN         | (USE OF A MORE SPECIFIC TERM IS            |          | military compact reactors                     |          | psychological tests                                 |
|            | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |          | . nuclear research and test reactors          |          | psychometrics                                       |
| RT         | A-37 aircraft                              |          | military compact reactors                     |          | space psychology                                    |
|            | AH-1G helicopter                           |          |   |          | 1, 1, ., 3)   |
|            | AH-1S helicopter                           |          | helicopters                                   | military | spacecraft  |
|            | AH-1W helicopter                           | GS       | V/STOL aircraft                               | GS       | military spacecraft                                 |
|            | AH-63 helicopter                           |          | . rotary wing aircraft                        |          | . DMSP satellites                                   |
|            | AH-64 helicopter                           |          | helicopters                                   |          | . reconnaissance spacecraft                         |
| ~          | ∘ aircraft                                 |          | military helicopters                          |          | Inspector satellite                                 |
|            | aircraft carriers                          |          | AH-1G helicopter                              |          | Midas satellites                                    |
|            | aircraft survivability                     |          | AH-1S helicopter                              |          | Midas 2 satellite                                   |
|            | airships                                   |          | AH-1W helicopter                              |          | Midas 3 satellite                                   |
|            | Alpha jet aircraft                         |          | AH-63 helicopter                              |          | Midas 4 satellite                                   |
|            | antisubmarine warfare aircraft             |          | AH-64 helicopter                              |          | Midas 5 satellite                                   |
|            | armed forces                               |          | BO-105 helicopter                             |          | Midas 6 satellite                                   |
|            | armed forces (foreign)                     |          | CH-3 helicopter                               |          | Midas 7 satellite                                   |
|            | armed forces (United States)               |          | CH-21 helicopter                              |          | photo reconnaissance spacecraft                     |
|            | attack aircraft                            |          | CH-34 helicopter                              |          | Samos   |
|            | attacking (assaulting) AWACS aircraft      |          | CH-46 helicopter CH-47 helicopter             | DT       | . Vela satellites                                   |
|            | B-1 aircraft                               |          | CH-54 helicopter                              | KI       | aerospace planes<br>armed forces                    |
|            | B-2 aircraft                               |          | CH-62 helicopter                              |          | artificial satellites                               |
|            | bomber aircraft                            |          | H-19 helicopter                               |          | Columbus space station                              |
|            | C-1A aircraft                              |          | H-43 helicopter                               |          | evasive satellites                                  |
|            | cargo aircraft                             |          | H-53 helicopter                               |          | manned spacecraft                                   |
|            | CH-62 helicopter                           |          | H-54 helicopter                               |          | meteorological satellites                           |
|            | CL-600 challenger aircraft                 |          | H-56 helicopter                               | ~        | military vehicles                                   |
|            | drone aircraft                             |          | H-60 Helicopter                               |          | navigation satellites                               |
|            | drone vehicles                             |          | HC-3 helicopter                               |          | recoverable spacecraft                              |
|            | E-2 aircraft                               |          | HH-43 helicopter                              |          | rendezvous spacecraft                               |
|            | E-3A aircraft                              |          | HH-65 helicopter                              |          | satellite networks                                  |
|            | E-4A aircraft                              |          | OH-4 helicopter                               |          | space stations                                      |
|            | fighter aircraft                           |          | OH-5 helicopter                               |          | space surveillance (spaceborne)                     |
|            | Firebee 2 target drone aircraft            |          | OH-6 helicopter                               | ∞        | spacecraft  |
|            | FV-12A aircraft                            |          | OH-13 helicopter                              |          | synchronous satellites                              |
|            | gliders                                    |          | OH-23 helicopter                              |          | unmanned spacecraft                                 |
|            | ground effect machines                     |          | OH-58 helicopter                              |          | weapon systems                                      |
|            | H-60 Helicopter                            |          | P-531 helicopter                              |          |   |
|            | Harrier aircraft                           |          | QH-50 helicopter                              |          | technology  |
|            | helicopters                                |          | S-67 helicopter                               | GS       | technologies  |
|            | Jaguar aircraft                            |          | SA-321 helicopter                             | DT       | . military technology                               |
|            | jet aircraft                               |          | SA-330 helicopter                             | RT       | antimissile defense                                 |
|            | light aircraft                             |          | SH-3 helicopter                               |          | antiradiation missiles                              |
| ~          | o military aviation                        |          | SH-4 helicopter                               |          | antisubmarine warfare                               |
|            | military helicopters<br>MRCA aircraft      |          | Sikorsky Whirlwind helicopter UH-1 helicopter |          | armed forces (foreign) armed forces (United States) |
|            | nuclear propelled aircraft                 |          | UH-2 helicopter                               |          | Army-Navy instrumentation program                   |
|            | observation aircraft                       |          | UH-34 helicopter                              |          | AWACS aircraft                                      |
|            | passenger aircraft                         |          | UH-60A helicopter                             |          | Ballistic Missile Early Warning System              |
|            | pilotless aircraft                         |          | UH-61A helicopter                             |          | defense communications system                       |
|            | reconnaissance aircraft                    |          | Westland Whirlwind helicopter                 |          | (DCS)   |
|            | research aircraft                          |          | XV-9A aircraft                                |          | defense industry                                    |
|            | rotary wing aircraft                       | RT 。     | o aircraft                                    |          | defense program                                     |
|            | S-3 aircraft                               |          | attack aircraft                               |          | deployment  |
|            |  |          |   |          | -   |

| ∞ <b>military</b><br>SN | (USE OF A MORE SPECIFIC TERM IS   | RT  milling USE  milling | . milling (machining) machining . milling (machining) chemical machining grooving metal cutting planing (mixing) compounding machines | DEF<br>essentia<br>with fac | Computers)  A type of parallel processor that is ally two or more individual computers cilities for interaction and work sharing. For multiple instruction multiple data stream |
|-------------------------|---|--------------------------|---|-----------------------------|---|
| RT                      | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>aeroquatic vehicles<br>aircraft carriers | GS                       | tools . machine tools . milling machines  | GS                          | data processing equipment . computers . digital computers   |
|                         | ambulances  |                          | grinding machines   |                             | parallel computers  |
|                         | amphibious vehicles   |                          | ∞ machinery<br>shapers  | RT                          | architecture (computers)  |
|                         | armed forces armed forces (foreign)   |                          |   |                             | computer design   |
|                         | armed forces (United States)  | GS                       | Itmeters measuring instruments  |                             | computer programming concurrent processing  |
|                         | automobiles<br>boats  | 00                       | . voltmeters  |                             | interprocessor communication  |
|                         | military spacecraft   | DT                       | . millivoltmeters   |                             | operating systems (computers)   |
|                         | recovery vehicles   | KI                       | galvanometers   |                             | parallel processing (computers) SIMD (computers)  |
|                         | research vehicles ships   | Mills ra                 |   |                             | Slivid (computers)  |
|                         | submarines  | GS                       | ratios<br>. Mills ratio   | ,                           | control systems)  |
|                         | tanks (combat vehicles)   | RT                       | failure   | (addi<br>UF                 | ed January 1991)<br>multiple input multiple output  |
|                         | trucks<br>underwater vehicles   |                          | failure analysis  |                             | ∞ control   |
| 0                       | vehicles  |                          | life (durability)<br>mortality  |                             | control stability control systems design  |
|                         | water vehicles  |                          | probability density functions   |                             | control theory  |
| milk_                   |   |                          | statistical analysis  |                             | feedback control  systems   |
| RT                      | beverages<br>food   | Milne r                  |   | · ·                         | systems stability   |
|                         |   | GS                       | analysis (mathematics) . numerical analysis   | Mindlin                     | plate theory  |
| Milky W<br>DEF          | /ay Galaxy The galaxy to which the sun belongs.   |                          | approximation   |                             | ed April 1998)  |
|                         | celestial bodies  | RT                       | Milne method differential equations   | USE                         | Mindlin plates  |
|                         | . galaxies spiral galaxies  |                          | ∞ methodology   | Mindlin                     | plates  |
|                         | Milky Way Galaxy  | Milno-T                  | homson method   | (add                        | ed April 1998)  |
| RT                      | galactic bulge  | RT                       | incompressible flow   | UF                          | Mindlin plate theory<br>Reissner-Mindlin plates   |
|                         | local group (astronomy) massive compact halo objects                                      |                          | ∞ methodology<br>Navier-Stokes equation   | GS                          | structural members  |
|                         | Orion nebula  |                          | viscous flow  |                             | . plates (structural members) Mindlin plates  |
|                         | radio sources (astronomy) solar neighborhood  | MIM (a                   |   | RT                          | dynamic structural analysis   |
|                         | stars   | UF                       | emiconductors)<br>metal-insulator-metal semiconductors  |                             | finite element method<br>free vibration   |
| millet                  |   | GS                       | electronic equipment  |                             | plate theory  |
| GS                      | farm crops  |                          | . solid state devices semiconductor devices   |                             | Reissner theory shear strain  |
|                         | . grains (food)   |                          | MIM (semiconductors)  |                             | structural analysis   |
|                         | millet plants (botany)  |                          | semiconductors (materials) . MIM (semiconductors)   |                             | structural vibration  |
| DT                      | millet  | RT                       | SIS (semiconductors)  |                             | thick plates  |
| RT                      | Earth resources flour (food)  | MIM al:                  |   |                             | etectors  |
| 0                       | food  | MIM di                   | Junction diodes each consisting of an   | GS                          | warning systems . mine detectors  |
|                         | grasses   | insulatii                | ng layer sandwiched between two metal-  | RT ∘                        | ∞ detectors   |
|                         | ter waves   |                          | ace layers and exhibiting a negative dif-<br>I resistance in its V-1 characteristics con-   |                             | warning   |
| GS                      | electromagnetic radiation . radio waves   | ceivably                 | y because of stimulated inelastic tunnel-   | Miner ru                    |   |
|                         | short wave radiation  | ing of e                 | electrons. Used for metal-insulator-metal   | USE                         | Palmgren-Miner rule   |
|                         | microwaves  | UF                       | metal-insulator-metal diodes  | mineral                     | l deposits  |
| RT                      | beam plasma amplifiers  | GS                       | electronic equipment  | RT                          | contacts (geology)  |
|                         | C band  |                          | . diodes semiconductor diodes   |                             | dredging Earth resources  |
|                         | CN emission cyclotron resonance devices   |                          | junction diodes   |                             | excavation  |
|                         | decimeter waves   |                          | MIM diodes . solid state devices  |                             | geology<br>lunar mining   |
|                         | electromagnetic noise<br>extraterrestrial radio waves                                     |                          | semiconductor devices   |                             | mineralogy  |
|                         | extramely high frequencies  |                          | junction diodes   |                             | minerals  |
|                         | frequencies   | RT                       | MIM diodes electron tunneling   |                             | mines (excavations) mining  |
|                         | solar radio emission<br>submillimeter waves   |                          | MSM (semiconductors)  |                             | reserves  |
|                         | wavelengths   |                          | negative resistance devices semiconductor diodes  |                             | strip mining underwater resources   |
| ∞ milling               |   |                          | tunnel diodes   |                             | veins (petrology)   |
| ∞ milling<br>SN         | (USE OF A MORE SPECIFIC TERM IS   | Mimas                    |   | mineral                     | l exploration   |
|                         | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)   | DEF                      | A satellite of Saturn orbiting at a mean  | GS                          | exploration   |
| RT                      | comminution   | distance                 | e of 186,000 kilometers.  |                             | mineral exploration   |
|                         |   |                          |   |                             | 005   |

#### mineral metabolism

RT anthracite . nephelite underground structures excavation . olivine waste disposal . . forsterite minerals mines (excavations) . perovskites mines (ordnance) . proustite mining GS weapons . pyrites mines (ordnance) mineral metabolism . pyrophyllite ammunition GS metabolism . pyroxenes ∞ mines mineral metabolism . . enstatite body fluids miniature electronic equipment
GS electronic equipment
. miniature electronic equipment . pyrrhotite caloric requirements . . troilite endocrine systems . quartz secretions . . coesite circuits . . stishovite  ${\scriptstyle \infty \text{ electric equipment}}$ mineral oils scheelite electronic modules GS oils . schreibersite ∞ equipment mineral oils . serpentine microminiaturization lubricating oils . siderites microminiaturized electronic devices . spinel micromodules mineralogy spodumene miniaturization chondrule RT . talc molecular electronics crystallography geochemistry . tourmaline printed circuits vermiculite solid state devices geology wurtzite subminiaturization mineral deposits zincblende thin films minerals RT aluminum silicates petrogenesis andesite miniaturization petrology bauxite GS miniaturization ∞ physical sciences beneficiation . microminiaturization siderophile elements biogeochemistry . subminiaturization submarine hydrothermal vents bone mineral content circuits boreholes miniature electronic equipment minerals calcium silicates printed circuits Naturally occurring inorganic elements DEF crystallites printed resistors or compounds having an orderly internal strucdiorite transistors ture and characteristic chemical compositions, dunite wafers crystal forms, and physical properties. Earth resources UF apatites felsite minicomputers ores. fluorosilicates GS data processing equipment GS minerals geology . computers . akermanite igneous rocks . . digital computers . amphiboles impact melts ... minicomputers . anatase lava .. Nova computers . aragonite limestone airborne/spaceborne computers . asbestos lunar soil Atmospheric & Oceanographic Inform barite mineral deposits . bastnasite mineral exploration microcomputers . beryl mineralogy . alexandrite monazite sands minima . bloedite mullites GS analysis (mathematics) . brucite ∞ nutrients . real variables . calcite obsidian . . extremum values . chromites potassium silicates . . . minima . cohenite rocks . . . Cramer-Rao bounds . cordierite rutile RT cusps (mathematics)
differential calculus . cryolite shales . dawsonite siderophile elements maxima . dolomite (mineral) silicates operations research optimization . euxenite sodium silicates . fayalite . feldspars soils penalty function underground acoustics range (extremes) . plagioclase veins (petrology) steepest descent method fluorite zeolites . fluorspar minimal surfaces . garnets ∞ mines DEF Surfaces for which the first variation of . . gadolinium-gallium garnet (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN the area integral vanish. yttrium-aluminum garnet RT boundary value problems . . yttrium-iron garnet conformal mapping RT mines (excavations) . gehlenite finite element method mines (ordnance) . graphite ∞ surfaces . pyrolytic graphite . gypsum mines (excavations) minimax technique . hexahedrite quarries approximation . illite core sampling curve fitting . ilmenite drainage differential games . iron ores exploitation game theory . . hematite exploration greedy algorithms . kamacite lunar mining operations research . kaolinite materials handling research . kreep mineral deposits saddle points . limonite mineral exploration . magnetite ∞ mines minimization . merwinite mining USE optimization . mica pits (excavations) . . biotite reserves . . fluorophlogopite stratigraphy minimum drag strip mining dynamic characteristics . . muscovite GS . monticellite subsidence . drag

underground explosions

underground storage

.. minimum drag
RT aircraft performance

. montmorillonite

. nepheline

friction drag

minimum entropy method

Application of entropy in statistical mechanics.

GS entropy (statistics)

minimum entropy method

RT ∞ methodology

minimum variance orbit determination

MINIVAR orbit determination

GS classical mechanics

- . space mechanics
- . orbital mechanics ... minimum variance orbit

determination

computation

orbit calculation

. . minimum variance orbit determination

orbit determination

. orbit calculation

. . minimum variance orbit determination

statistical analysis RT

mining

mining GS

. lunar mining

. strip mining anthracite

RT clays

dredging

energy policy

excavation

exploitation

mineral deposits mineral exploration

mines (excavations)

underground structures

minitrack optical tracking system USE minitrack system

# minitrack system

DEF A satellite tracking system consisting of a field of separate antennas and associated receiving equipment interconnected so as to form interferometers which track a transmitting beacon in the payload itself. Used for minitrack optical tracking system and MOTS (tracking system).

minitrack optical tracking system

MOTS (tracking system)

Global Tracking Network

optical tracking

satellite tracking

space detection and tracking system

space surveillance (ground based)

spacecraft tracking STDN (network)

∞ systems

tracking networks

tracking stations

∞ tracks

MINIVAR orbit determination USE minimum variance orbit

determination

### Minkowski space

Feynman diagrams light-cone expansion probability theory space-time functions

#### Minnesota

GS nations

- . United States
- . . Minnesota

# minor circle turning flight

turning flight GS

. minor circle turning flight

aircraft control

maneuvers

Minor Planet 1221

USE Amor asteroid

Minor Planet 2060 USE Chiron

minor planets USE asteroids

minorities

American Indians RT anthropology

communities

culture (social sciences) nations

races (anthropology)

sociology votina

minority carriers

charge carriers GS

minority carriers

RT additives

bipolar transistors

carrier injection

carrier lifetime diffusion length

electron mobility

electrons

holes (electron deficiencies)

semiconductors (materials)

#### MINOS computer

GS data processing equipment

- computers
- .. MINOS computer

#### Minuteman ICBM

Minuteman missiles GS missiles

. ballistic missiles

. . intercontinental ballistic missiles

... Minuteman ICBM

. surface to surface missiles . . intercontinental ballistic missiles

Minuteman ICBM

M-55 engine

M-56 engine

M-57 engine

space weapons

multistage rocket vehicles solid propellant rocket engines

Minuteman missiles

Minuteman ICBM USF

#### miosis

RT eye (anatomy) ophthalmology tetrad theory vision

#### Mir space station

DEF The Soviet space station launched February 20, 1986; its name means peace or world in Russian. It is a manned, modular, permanent, and multi-mission station.

artificial satellites

- . space stations . Mir space station
- manned spacecraft
- Mir space station Soviet spacecraft
- Mir space station
- stations
- space stations
- . Mir space station

Granat satellite

International Space Station Kvant modules

Priroda module

space bases

space laboratories

space station modules

spacecraft docking

U.S.S.R. space program

Mira Ceti star

USE Omicron Ceti star

#### Mira variables

DEF Long-period (80 to over 600 days) variable stars of red giant or red supergiant type, exemplified by the star Mira Ceti. Used for long period variables.

long period variables celestial bodies

GS

- . stars
- . . late stars
- . . . cool stars .... Mira variables
- . . . . Omicron Ceti star
- . . variable stars
- ... Mira variables

. . . Omicron Ceti star

RT asymptotic giant branch stars carbon stars

M stars

red giant stars

S stars

stellar oscillations supergiant stars

# Mirage 3 aircraft

Dassault Mirage 3 aircraft

GS

- attack aircraft
  . fighter aircraft
  . Mirage aircraft
  . Mirage 3 aircraft

Dassault aircraft

. Mirage aircraft . . Mirage 3 aircraft

jet aircraft

. Mirage aircraft

. Mirage 3 aircraft

monoplanes

. Mirage aircraft Mirage 3 aircraft

single engine aircraft

. Mirage aircraft

. Mirage 3 aircraft supersonic aircraft

. Mirage aircraft

. Mirage 3 aircraft

tailless aircraft . Mirage 3 aircraft

Mirage aircraft DEF Collective term for a class of French attack aircraft.

GS

attack aircraft

. fighter aircraft . . Mirage aircraft

. Mirage 3 aircraft

Dassault aircraft

. Mirage aircraft Mirage 3 aircraft

jet aircraft

. Mirage aircraft . Mirage 3 aircraft

monoplanes . Mirage aircraft

. Mirage 3 aircraft single engine aircraft

. Mirage aircraft

. Mirage 3 aircraft supersonic aircraft

. Mirage aircraft . . Mirage 3 aircraft

Miranda

A satellite of Uranus orbiting at a mean

distance of 124,000 kilometers. GS celestial bodies

. natural satellites . . Uranus satellites

. Miranda RT Uranus (planet)

#### Miranda satellite

DEF This United Kingdom satellite was launched in 1974 into a sun synchronous, low Earth orbit. Prime objective of the mission was to experiment with satellite attitude control. It

#### Miros system

ceased to operate the same year it was GS alloys cases (containers) launched. . rare earth alloys finned bodies GS artificial satellites . mischmetal rocket engine cases . scientific satellites RT alloying slender bodies . . UK satellites aluminum alloys streamlined bodies ... Miranda satellite cathodic coatings missile cases . synchronous satellites cerium . Miranda satellite desorption USE missile bodies RT attitude control electrode materials intermetallics missile components Miros system steels GS missile components modulating retrodirective optics . missile antennas modulation . missile bodies GS miscibility USE solubility . light modulation RT ∞ components engines . Miros system miscibility gap RT optical measuring instruments fins phase separation (materials) nose cones ∞ systems solubility warheads space processing mirror fusion winas temperature dependence An open-ended configuration which missile configurations traps low beta plasmas. It is realized by associating two identical magnetic mirrors having the missile configurations . Sandpiper target missile aerodynamic configurations USE field effect transistors same axis RT fusion reactors mismatch (electrical) magnetic mirrors aircraft configurations Condition in which the impedance of a nuclear fusion ∞ configurations source does not match or equal the impedance hammerhead configuration plasma control of the connected load or transmission line. launch vehicle configurations tandem mirrors electrical measurement thermal barriers (plasma control) missiles impedance measurement multiengine vehicles matching mirror point Patriot missile magnetic mirrors propulsion system configurations RT misorientation radiation belts rocket engines USE misalignment rocket vehicles mirrors MISR (radiometry) GS mirrors missile construction (added May 2007) . celescopes USE missile structures DEF A high resolution imaging spectroradi-. etalons ometer aboard the Terra spacecraft that mea-. Fresnel reflectors missile control sures the Earth's brightness in 4 spectral bands . honeycomb mirrors missile guidance at 9 different look angles in order to increase the . magnetic mirrors missile stabilization understanding of the impacts of different types . . tandem mirrors actuators of atmospheric particles and clouds on global . deformable mirrors analog computers climate. Launched in August 1999. . paraboloid mirrors attitude control Multi-angle Imaging . rotating mirrors automatic control Spectroradiometer . segmented mirrors automatic flight control measuring instruments solettas beam rider guidance . radiation measuring instruments Bragg reflectors o control . . actinometers Cassegrain optics circumsolar telescopes directional control . . . radiometers flight control . . . . spectroradiometers collimators ground based control .... MISR (radiometry) homing heliostats . satellite-borne instruments optical coatings laser guidance lateral control . MISR (radiometry) optical equipment aerosols longitudinal control optical materials albedo optical resonators missiles clouds (meteorology) proportional navigation radar homing missiles optics data products reflecting telescopes Earth atmosphere radio control reflectors Earth Observing System (EOS) solar collectors remote control reflectance solar reflectors rocket engine control remote sensing specular reflection spacecraft control satellite imagery telescopes star trackers satellite observation x ray optics thrust vector control Terra spacecraft visual control terrestrial radiation MIS (semiconductors) missile defense metal insulator semiconductors miss distance (SYSTEMS DESIGNED TO PROTECT MISSILES AGAINST ATTACK) GS electronic equipment GS distance solid state devices . miss distance antimissile defense . . semiconductor devices accuracy antimissile missiles .. MIS (semiconductors) air to surface missiles antiradiation missiles semiconductors (materials) ballistic missile decoys MIS (semiconductors) missile antennas ∞ defense SIS (semiconductors) GS antennas defense industry . missile antennas defense program misalignment missile components hardening (systems) (EXCLUDES PSYCHOLOGICAL DISORIENTATION) . missile antennas military technology missiles misorientation aircraft antennas

directional antennas

microwave antennas

missile components

axisymmetric bodies

. missile bodies

missile cases

airframes

∞ hodies

blunt bodies

missile bodies

GS

optical countermeasures

reentry decoys

missile design

∞ design

Safeguard system

weapons delivery

RT aerospace engineering

computer aided design

aircraft design

∞ development

mischmetal

attitude (inclination)

DEF An alloy consisting of a natural mixture

of rare-earth metals; used in electrode materials

and hydrogen-storage alloys, as a general alloy addition, and in the production of some alumi-

position (location)

disorientation

(added June 1998)

num alloys and steels.

|           | engine design                             |         | underground storage                     | Bullpup missiles  |
|-----------|---|---------|---|---|
|           | flight tests                              |         |   | Condor missile  |
|           | functional design specifications          |         | structures                              | Harpoon missile   |
|           | Magnus effect                             | UF      | missile construction                    | Hound Dog missile   |
|           | reliability                               | RT      | airframes                               | Maverick missiles   |
|           | structural design                         | ~       | structures                              | quail missile   |
|           | systems engineering                       |         | tail assemblies                         | Shrike missile  |
|           |   |         |   | . Antelope missile  |
|           | detection                                 |         | systems                                 | . antiaircraft missiles                                       |
| GS        | detection                                 | GS      | weapon systems                          | BOMARC missiles   |
|           | . missile detection                       |         | . missile systems                       | BOMARC A missile  |
| RT        | early warning systems                     |         | Nike X systems                          | BOMARC A missile  |
|           | electronic warfare                        |         | Safeguard system                        | Falcon missile  |
|           | identifying                               | RT      | aerospace systems                       | Mauler missile  |
|           | target acquisition                        |         | beam rider guidance                     | Nike-Ajax missile   |
|           | target recognition                        |         | mobile missile launchers                | Nike-Hercules missile   |
|           |   |         | radar homing missiles                   | Redeye missile  |
| missile ( | engine cases                              | ~       | systems                                 | SIAM missiles   |
| USE       | rocket engine cases                       |         |   | Sidewinder missiles   |
|           |   | missile |   | tartar missile  |
| missile g | guidance                                  | RT      | captive tests                           |   |
|           | missile control                           |         | engine tests                            | terrier missile   |
|           |   |         | flight tests                            | . antimissile missiles  |
| missile   | launchers                                 |         | fuel tests                              | Mauler missile  |
|           | launchers                                 |         | ground tests                            | . Nike-Zeus missile   |
| -         | . missile launchers                       |         | missiles                                | Spartan missile   |
|           | mobile missile launchers                  |         | prelaunch tests                         | . Sprint missile  |
| RT        | ballistic missile submarines              |         | propellant tests                        | . antiradiation missiles                                      |
| 111       | catapults                                 |         | stability tests                         | . antiship missiles   |
|           | ground support equipment                  |         | static tests                            | . ballistic missiles  |
|           | gun launchers                             |         | test firing                             | field army ballistic missiles                                 |
|           | launch vehicles                           |         | test vehicles                           | intercontinental ballistic missiles                           |
|           | launching                                 | 00      | tests                                   | Atlas ICBM  |
|           | launching sites                           |         | wind tunnel stability tests             | Atlas D ICBM  |
|           | missiles                                  |         |   | Atlas E ICBM  |
|           |   | missile | tracking                                | Atlas F ICBM  |
|           | rocket launchers                          | GS      | tracking (position)                     | Minuteman ICBM  |
|           | sea launching                             |         | . missile tracking                      | MX missile  |
|           | weapon systems                            | RT      | infrared tracking                       | Titan ICBM  |
|           |   |         | laser target designators                | Titan 1 ICBM  |
| missile   |   |         | polystation doppler tracking system     | Titan 2 ICBM  |
| SN        | (EXCLUDES DISTANCE OF MISSILE TRAVEL)     |         | range and range rate tracking           | intermediate range ballistic missile:                         |
| GS        | ranges (facilities)                       |         | space detection and tracking system     | Blue Streak missile   |
| 00        | . test ranges                             |         | spacecraft tracking                     | Jupiter missile   |
|           | missile ranges                            |         | tracking networks                       | polaris missiles  |
|           | test facilities                           |         | tracking stations                       | Polaris A1 missile  |
|           | . test ranges                             |         | <u> </u>                                | Polaris A2 missile  |
|           | missile ranges                            | missile | trajectories                            | Polaris A3 missile  |
| RT        | ballistic ranges                          | GS      | trajectories                            | Pershing missile  |
| IXI       | downrange                                 |         | . missile trajectories                  | Poseidon missiles   |
|           | •   | RT      | ascent trajectories                     | short range ballistic missiles                                |
|           | hypersonic test apparatus                 |         | ballistic trajectories                  | Skybolt missile   |
|           | missiles                                  |         | Cobra Dane (radar)                      | Subroc missile  |
|           | range safety                              |         | descent trajectories                    | V-2 missile   |
|           | reentry range                             |         | flight mechanics                        | . Blue Steel missile  |
|           |   |         | flight paths                            | . Bumblebee project   |
|           | signatures                                |         | impact prediction                       | . Corvus missile  |
| GS        | signatures                                |         | parabolic flight                        | . Osprey missile  |
|           | . missile signatures                      |         |   | . precision guided projectiles                                |
| RT        | detection                                 |         | reentry trajectories                    | . radar homing missiles                                       |
|           | signature analysis                        |         | spinning unguided rocket trajectory     | . ramjet missiles   |
|           | target recognition                        |         | underwater trajectories                 | Navaho missile  |
|           |   | missile | vibratian                               |   |
| missile   |   |         | vibration<br>vibration                  | supersonic low altitude missile<br>. Sandpiper target missile |
| UF        | silos (missile storage)                   | GS      | . structural vibration                  | . Sandpiper target missile<br>. SS-11 missile                 |
| RT        | buildings                                 |         | . structural vibration                  | . surface to air missiles                                     |
|           | launching sites                           | рт      |   |   |
|           | MX missile                                | RT      | bending vibration                       | Blue Goose missile  |
| ~         | storage                                   |         | breathing vibration                     | BOMARC missiles   |
|           | -   |         | flutter                                 | BOMARC A missile  |
| ∞ missile | simulators                                |         | linear vibration                        | BOMARC B missile  |
| SN        | (USE OF A MORE SPECIFIC TERM IS           |         | random vibration                        | Chaparral missile   |
|           | RECOMMENDEDCONSULT THE TERMS              |         | self induced vibration                  | Hawk missile  |
| RT        | LISTED BELOW)                             |         | supersonic flutter                      | Mauler missile  |
| KI        | computerized simulation flight simulators |         | torsional vibration                     | Nike missiles   |
|           |   |         | transonic flutter                       | Nike-Ajax missile   |
|           | mathematical models                       |         |   | Nike-Hercules missile   |
|           | missiles                                  | missile |   | Nike-Zeus missile   |
|           | simulators                                |         | Any objects thrown, dropped, fired,     | Patriot missile   |
|           | training simulators                       |         | d, or otherwise projected with the pur- | . Redeye missile  |
|           | wind tunnel models                        |         | striking a target.                      | Sprint missile  |
|           |   | GS      | missiles                                | Talos missile   |
|           | stabilization                             |         | . air slew missiles                     | tartar missile  |
| USE       | missile control                           |         | . air to air missiles                   | terrier missile   |
|           | stabilization                             |         | Falcon missile                          | . surface to surface missiles                                 |
|           |   |         | Matra missile                           | antitank missiles   |
| missile   | storage                                   |         | Sidewinder missiles                     | Shillelagh missiles   |
| RT        | ground support equipment                  |         | Sparrow missiles                        | tow missiles  |
|           | mobile missile launchers                  |         | Sparrow 2 missile                       | Corporal missile  |
|           | propellant storage                        |         | Sparrow 3 missile                       | cruise missiles   |
| ~         | storage                                   |         | . air to surface missiles               | Navaho missile  |
|           | _   |         |   |   |

# missing mass (astrophysics)

|        | Tomahawk missiles  | ies in v                            | hich the mass derived from the dynami-   |  | Galileo spacecraft  |
|--------|--|-------------------------------------|--|--|---|
|        | fleet ballistic missiles   | cal stal                            | pility of its member galaxies, the dynami-   |  | Grand Tours   |
|        | Polaris A1 missile   | cal ma                              | ss, is substantially larger than the mass  |  | Heat Capacity Mapping Mission   |
|        | Polaris A2 missile   | estimat                             | ed by the mass-to-luminosity ratio of the  |  | Landsat follow-on missions  |
|        | Polaris A3 missile   | visible                             | parts of the galaxies, the visible mass.   |  | long duration space flight  |
|        | Poseidon missiles  | GS                                  | cosmology  |  | Mariner Jupiter-Saturn flyby  |
|        | Subroc missile   |                                     | missing mass (astrophysics)  |  | Mariner Jupiter-Uranus flyby  |
|        | intercontinental ballistic missiles  |                                     | mass   |  | Mars missions   |
|        | Atlas ICBM   |                                     | missing mass (astrophysics)  |  | mission planning  |
|        | Atlas D ICBM   | RT                                  | astronomy  |  | Mission to Planet Earth   |
|        | Atlas E ICBM   |                                     | astrophysics   |  | planning  |
|        | Atlas F ICBM   |                                     | dark matter  |  | programs  |
|        | Minuteman ICBM   |                                     | dynamic stability  |  | project planning  |
|        | MX missile   |                                     | galactic clusters  |  | projects  |
|        | Titan ICBM   |                                     | galactic halos   |  | Rosetta mission   |
|        |  |                                     |  |  | SOHO Mission  |
|        | Titan 1 ICBM   |                                     | galactic structure   |  |   |
|        | Titan 2 ICBM   |                                     | large-scale structure of the universe  |  | Solar Maximum Mission   |
|        | intermediate range ballistic missiles  |                                     | mass distribution  |  | Solar Maximum Mission-A   |
|        | Blue Streak missile  |                                     | mass to light ratios   |  | space flight  |
|        | Jupiter missile  |                                     | massive compact halo objects   |  | space missions  |
|        | polaris missiles   |                                     | virial theorem   |  | Space Shuttle missions  |
|        | Polaris A1 missile   |                                     | weakly interacting massive particles   |  | targets   |
|        | Polaris A2 missile   |                                     |  |  | Ulysses mission   |
|        | Polaris A3 missile   | missio                              | n adaptive wings   |  | Voyager 1977 mission  |
|        | Lance missile  | GS                                  | airfoils   |  |   |
|        | Mace missiles  |                                     | . wings  | Mississ  | sippi   |
|        | Pershing missile   |                                     | mission adaptive wings   | GS   | nations   |
|        | Regulus missile  | RT                                  | adaptive control   |  | . United States   |
|        | sergeant missiles  | 131                                 | F-111 aircraft   |  | Mississippi   |
|        | short range ballistic missiles   |                                     | gust alleviators   | RT   | Gulf of Mexico  |
|        |  |                                     | •  | IXI  | Out of Mexico   |
|        | supersonic low altitude missile  |                                     | variable geometry structures   | Miccica  | sippi Delta (LA)  |
|        | V-1 missile  |                                     | variable sweep wings   | GS   | landforms   |
|        | . underwater to surface missiles   |                                     | wing camber  | GS   |   |
|        | Subroc missile   |                                     | wing profiles  |  | . deltas  |
| RT     | ammunition   |                                     |  |  | . Mississippi Delta (LA)  |
|        | antimissile defense  | missio                              | n planning   | RT   | Louisiana   |
|        | antiship warfare   | GS                                  | planning   |  | rivers  |
|        | artillery  |                                     | mission planning   |  |   |
|        | ascent propulsion systems  | RT                                  | budgeting  |  | sippi River (US)  |
|        | auxiliary propulsion   |                                     | commerce lab   | GS   | rivers  |
|        | bombs (ordnance)   |                                     | critical path method   |  | . Mississippi River (US)  |
|        | electromagnetic missiles   |                                     | estimating   | RT   | drainage patterns   |
|        | flight test vehicles   |                                     | forecasting  |  | Earth resources   |
|        | ∞ flight vehicles  |                                     | management   |  | floods  |
|        | ground support equipment   |                                     |  |  | resources   |
|        |  |                                     | management planning  |  | river basins  |
|        | guidance (motion)  |                                     | ∞ missions   |  | nvoi baomo  |
|        | homing devices   |                                     | observation scheduling   | Missou   | ri  |
|        | hypersonic flight  |                                     | ∞ operations   | GS   | nations   |
|        | incendiary ammunition  |                                     | operations research  | 00   | . United States   |
|        | launch vehicles  |                                     | payload integration  |  |   |
|        | launching sites  |                                     | ∞ plans  | DT   | Missouri  |
|        | missile configurations   |                                     | predictions  | KI   | Missouri River (US)   |
|        | missile control  |                                     | prelaunch summaries  |  | St Louis-Kansas City Corridor (MO)  |
|        | missile defense  |                                     | programs   |  |   |
|        | missile launchers  |                                     | project management   |  | ri River (US)   |
|        | missile ranges   |                                     | scheduling   | GS   | rivers  |
| c      | ∞ missile simulators   |                                     | Ulysses mission  |  | . Missouri River (US)   |
|        | missile tests  |                                     | Ciyooco iiilooloii   | RT   | lowa  |
|        | multiengine vehicles   | Missis                              | n to Planet Earth  |  | Kansas  |
|        | Nike X systems   |                                     |  |  | Missouri  |
|        | nuclear weapons  | ,                                   | led April 1995)  |  | Montana   |
|        | plasma sheaths   |                                     | A NASA initated program that uses  |  | Nebraska  |
|        |  |                                     |  |  |   |
|        | •  |                                     | pace and ground based measurement  |  | North Dakota  |
|        | propulsion   | system                              | s to provide the scientific basis for under-   |  | North Dakota river basins   |
|        | propulsion reentry   | system<br>standin                   | s to provide the scientific basis for under-<br>g global change.   |  | river basins  |
|        | propulsion reentry reentry vehicles  | system<br>standin<br>UF             | s to provide the scientific basis for under-<br>g global change.<br>MTPE   |  | river basins<br>South Dakota  |
|        | propulsion<br>reentry<br>reentry vehicles<br>rocket catapults  | system<br>standin<br>UF             | s to provide the scientific basis for under-<br>g global change.<br>MTPE<br>programs   |  | river basins<br>South Dakota<br>United States   |
|        | propulsion<br>reentry<br>reentry vehicles<br>rocket catapults<br>rocket engines  | system<br>standin<br>UF             | s to provide the scientific basis for under-<br>g global change.<br>MTPE<br>programs<br>. NASA programs  |  | river basins<br>South Dakota  |
|        | propulsion<br>reentry<br>reentry vehicles<br>rocket catapults<br>rocket engines<br>rocket propellants  | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for under-<br>g global change.<br>MTPE<br>programs<br>. NASA programs<br>Mission to Planet Earth   | Missou   | river basins<br>South Dakota<br>United States<br>valleys  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets   | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for under-<br>g global change.<br>MTPE<br>programs<br>. NASA programs  |  | river basins South Dakota United States valleys ri River Basin (US)   |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM   | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for under-<br>g global change.<br>MTPE<br>programs<br>. NASA programs<br>Mission to Planet Earth   | <b>Misso</b> u<br>GS   | river basins South Dakota United States valleys ri River Basin (US) landforms   |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching  | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for under-<br>g global change.<br>MTPE programs . NASA programs . Mission to Planet Earth climate change   |  | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM   | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics  |  | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins   |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching  | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming   | GS   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins river basins Missouri River Basin (US)   |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization   | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions  | GS   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants Cockets SCRAM spacecraft launching spin stabilization stage separation  | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing   | GS   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins river basins Missouri River Basin (US)   |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet   | system<br>standin<br>UF<br>GS       | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions  | GS<br>RT   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming  missions remote sensing scientific visualization   | GS   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for under- g global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  | GS<br>RT   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER)  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  ins (USE OF A MORE SPECIFIC TERM IS   | GS<br>RT<br><b>mist</b>  | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds   |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rockets rockets CSCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  ins (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS   | GS<br>RT<br><b>mist</b><br>SN<br>DEF                                 | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER)  |
|        | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories  | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  ins (USE OF A MORE SPECIFIC TERM IS   | GS<br>RT<br><b>mist</b><br>SN<br>DEF<br>particles                    | river basins South Dakota United States valleys  ri River Basin (US) landforms structural basins river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of superposed in the atmosphere at the superposed in the supe    |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  INS (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) aborted missions  | RT  mist SN DEF particles near the                                   | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of substance in the atmosphere at ce surface of the Earth; small water drop  |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles  | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  INS (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions  | RT  mist SN DEF particles near the lets floa                         | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of a suspended in the atmosphere at of the Earth; small water drop atting or falling, approaching the form of the surface of the Earth; small water drop atting or falling, approaching the form of the suspended in the surface of the Earth; small water drop atting or falling, approaching the form of the surface of the Earth; small water drop atting or falling, approaching the form of the surface of the Earth; small water drop atting or falling, approaching the form of the surface of the Earth; small water drop atting or falling, approaching the form of the surface of the surface of the Earth; small water drop atting the surface of the Earth; small water drop atting the surface of |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  ins  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS)  | RT  mist SN DEF particles near the lets floa rain, an                | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of the suspended in the atmosphere at the surface of the Earth; small water drop thing or falling, approaching the form of sometimes distinguished from fog a  |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles  | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  INS (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS) Cassini mission   | RT  mist SN DEF particle: near the lets floa rain, an being n        | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins wissouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of a surface of the Earth; small water drop thing or falling, approaching the form of a sometimes distinguished from fog a nore transparent or as having particle  |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  INS  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions asteroid missions Astro missions (STS) Cassini mission Cluster Mission  | mist SN DEF particle: near the lets floa rain, an being n            | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of a suspended in the atmosphere at of a surface of the Earth; small water drop titing or falling, approaching the form of d sometimes distinguished from fog a nore transparent or as having particle ibly moving downward.   |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads weapon systems   | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  INS  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS) Cassini mission Cluster Mission Comet Rendezvous Asteroid Flyby  | RT  mist SN DEF particle: near the lets floa rain, an being n        | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of the suspended in the atmosphere at the surface of the Earth; small water drop atting or falling, approaching the form of the discontinuous distinguished from fog a more transparent or as having particle bibly moving downward. particles   |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads weapon systems weapons  | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming missions remote sensing scientific visualization  INS  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS) Cassini mission Cluster Mission Comet Rendezvous Asteroid Flyby Mission  | mist SN DEF particles near the lets floe rain, an being n percept GS | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of a suspended in the atmosphere at of the Earth; small water dropeting or falling, approaching the form of a sometimes distinguished from fog a nore transparent or as having particle ibly moving downward. particles . mist   |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads weapon systems weighed winged vehicles  | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming  missions remote sensing scientific visualization  INS  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS) Cassini mission Cluster Mission Comet Rendezvous Asteroid Flyby Mission Earth-Venus trajectories               | mist SN DEF particle: near the lets floa rain, an being n            | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of the suspended in the atmosphere at the surface of the Earth; small water drop atting or falling, approaching the form of sometimes distinguished from fog a more transparent or as having particle ibly moving downward. particles . mist aerosols  |
| missin | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rocket propellants rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads weapon systems weapons winged vehicles  g mass (astrophysics) | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming  missions remote sensing scientific visualization  INS  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED.—CONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS) Cassini mission Cluster Mission Comet Rendezvous Asteroid Flyby Mission Earth-Venus trajectories expeditions | mist SN DEF particles near the lets floe rain, an being n percept GS | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of a suspended in the atmosphere at the estimate of the Earth; small water drop ting or falling, approaching the form of a sometimes distinguished from fog a nore transparent or as having particle ibly moving downward. particles . mist aerosols dispersions   |
| c      | propulsion reentry reentry vehicles rocket catapults rocket engines rocket propellants rockets SCRAM spacecraft launching spin stabilization stage separation supersonic combustion ramjet engines supersonic flight terminal ballistics test vehicles torpedoes trajectories transportation vehicles warheads weapon systems weighed winged vehicles  | system<br>standin<br>UF<br>GS<br>RT | s to provide the scientific basis for underg global change.  MTPE programs . NASA programs . Mission to Planet Earth climate change Earth Observing System (EOS) geophysics global warming  missions remote sensing scientific visualization  INS  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) aborted missions asteroid missions Astro missions (STS) Cassini mission Cluster Mission Comet Rendezvous Asteroid Flyby Mission Earth-Venus trajectories               | mist SN DEF particles near the lets floe rain, an being n percept GS | river basins South Dakota United States valleys  ri River Basin (US) landforms . structural basins . river basins Missouri River Basin (US) rivers watersheds  (ATMOSPHERIC WATER) Liquid, usually water in the form of the suspended in the atmosphere at the surface of the Earth; small water drop atting or falling, approaching the form of sometimes distinguished from fog a more transparent or as having particle ibly moving downward. particles . mist aerosols  |

|          | fog dispersal                                   |               | tumbling motion   |         | ∞ theories                                      |
|----------|---|---------------|---|---------|---|
|          | haze  |               | tarrising metion  | ,       | turbulence models                               |
|          | haze detection                                  | mixing        |   |         | turbulent flow                                  |
|          | precipitation (meteorology)                     | GS            | mixing  |         | turbulent mixing                                |
|          |   |               | . colloiding  |         | vorticity transport hypothesis                  |
|          | ing (turbomachinery)                            |               | . compounding   |         |   |
|          | ed July 1991)                                   |               | . dissolving  |         |   |
|          | rotating disks                                  |               | . homogenizing . laminar mixing   | mixing  |   |
| ٥        | ∞ rotor blades<br>rotor blades (turbomachinery) |               | . premixing   |         | led September 1993)                             |
|          | rotors  |               | . signal mixing   | GS      | dimensionless numbers . mixing ratios           |
|          | tuning  |               | . suspending (mixing)   |         | ratios  |
|          | turbomachine blades                             |               | . turbulent mixing  |         | . mass ratios                                   |
|          | vibration                                       | RT            | aeration  |         | mixing ratios                                   |
|          |   |               | agitation   | RT      |   |
| mitoch   |   |               | blowing   |         | atmospheric moisture                            |
| GS       | organelles                                      |               | chokes  |         | gas mixtures                                    |
|          | . mitochondria                                  |               | diffusion<br>dilution   |         | gaseous diffusion                               |
| RT       | cells (biology)                                 |               | grinding (comminution)  |         | humidity  |
|          | cytology  |               | jet mixing flow   |         | mixing  |
| mitosis  |   |               | liquid injection  |         | moisture content water vapor                    |
| GS       | cytogenesis                                     |               | metal powder  |         | water vapor                                     |
| 00       | . mitosis                                       |               | mixers  |         |   |
| RT       | cell division                                   |               | mixing layers (fluids)  | mixture | es  |
|          | cells (biology)                                 |               | mixing ratios   | UF      | blends  |
|          | chromosome aberrations                          |               | mixtures  | GS      | mixtures  |
|          | chromosomes                                     |               | premixed flames   |         | . admixtures                                    |
|          | cytology  | c             | separation     separation |         | . binary mixtures                               |
|          | cytoplasm                                       |               | shaking   |         | binary fluids                                   |
|          | mutations                                       |               | spraying<br>swirling  |         | eutectics                                       |
|          | physiology                                      |               | tangling  |         | eutectic alloys                                 |
|          | reproduction (biology)                          |               | trapped vortices  |         | . dispersions<br>colloids                       |
| mitra    |   |               | turbulence  |         | aerosols  |
| RT       | fungi   |               | vortices  |         | fog   |
|          | plants (botany)                                 |               |   |         | colloidal propellants                           |
|          |   |               | circuits  |         | emulsions                                       |
| MIUS     |   | GS            | circuits  |         | photographic emulsions                          |
| USE      | Modular Integrated Utility System               | RT            | . mixing circuits   |         | nuclear emulsions                               |
|          |   | KI            | frequency converters frequency synthesizers   |         | liquid-gas mixtures                             |
|          | crystals  |               | heterodyning  |         | aerosols  |
| GS       | crystals  |               | preamplifiers   |         | fog   |
| DT       | . mixed crystals                                |               |   |         | plastisols<br>smoke                             |
| RT       | powder metallurgy<br>sintering                  | mixing (      | depth   |         | . polymer blends                                |
|          | Sintering                                       | USE           | mixing height   |         | . sialon  |
| mixed fi | low   |               | haiaht  |         | . slurries                                      |
| USE      | multiphase flow                                 | mixing<br>DEF |   |         | . solid suspensions                             |
|          |   |               | osphere is well mixed. The height will  |         | . solutions                                     |
| mixed o  | oxides  |               | th diurnal, seasonal, and regional varia-   |         | . aqueous solutions                             |
| DEF      | Mixture of oxides, particularly of radio-       |               | sed for mixing depth.   |         | gas mixtures                                    |
| active n |   | UF            | mixing depth  |         | air   |
| GS       | chalcogenides                                   | RT            | air pollution   |         | alveolar air<br>compressed air                  |
|          | . oxides  |               | atmospheric circulation   |         | expired air                                     |
|          | metal oxides                                    |               | convection  |         | high temperature air                            |
|          | mixed oxides BSCCO superconductors              |               | convection currents   |         | liquid air                                      |
|          | YBCO superconductors                            |               | vertical air currents<br>wind (meteorology)   |         | detonable gas mixtures                          |
| RT       | high temperature superconductors                |               | zonal flow (meteorology)  |         | photographic emulsions                          |
| 111      | nuclear fuels                                   |               | zonai now (meteorology)   |         | nuclear emulsions                               |
|          | plutonium oxides                                | mixina        | layers (fluids)   |         | solid solutions                                 |
|          | strontium oxides                                |               | ed September 1988)  | RT      | ,   |
|          | uranium oxides                                  | DEF           | Fluid layers in which multicomponent  |         | azeotropes<br>∞ combination                     |
|          |   | mixing o      |   |         | composite materials                             |
| mixers   |   | RT            | advection   |         | composition (property)                          |
| SN<br>RT | (EXCLUDES MIXING CIRCUITS)                      |               | atmospheric boundary layer  |         | dissolved gases                                 |
| KI       | admixtures<br>aeration                          |               | atmospheric stratification  |         | eutectic composites                             |
|          | aerosols  |               | boundary layers convection  |         | formulations                                    |
|          | agitation                                       |               | Ekman layer   |         | ingredients                                     |
|          | baffles   |               | jet mixing flow   |         | mixers  |
|          | blowers   |               | laminar mixing  |         | mixing  |
|          | carburetors                                     | c             | ∘ layers  |         | paste (consistency)                             |
|          | coalescing                                      |               | mixing  |         | solubility                                      |
|          | contactors                                      |               | mixing length flow theory   |         |   |
|          | odiffusers                                      |               | shear layers  | MIO (n  | neteorology)                                    |
| ۰        | odispersion                                     |               | turbulent boundary layer  |         | led September 2000)                             |
|          | feeders<br>grinding mills                       |               | turbulent mixing<br>two fluid models  | USE     | Madden-Julian Oscillation                       |
|          | grinding mills<br>mixing                        |               | two fluid filodelS  | 30L     |   |
|          | mixtures  | mixing        | length flow theory  |         |   |
|          | paddles   | GS            | flow theory   | ML-1 n  | uclear power plant                              |
|          | plows   |               | . mixing length flow theory   | GS      |   |
|          | plungers  |               | kinetic theory  |         | . nuclear power plants                          |
|          | separators                                      |               | . transport theory  |         | ML-1 nuclear power plant                        |
|          | shakers   |               | mixing length flow theory   |         | nuclear electric power generation               |
|          |   |               | 76 11 1   |         |   |
|          | sprayers<br>stirring                            | RT            | mixing layers (fluids) shear flow   |         | . nuclear power plants ML-1 nuclear power plant |

RT ∞ power plants stroking tests . climate models digital elevation models Modcomp II computer dynamic models USE multispectral linear arrays data processing equipment electroweak model computers . environment models . . digital computers MMH (chemistry) Gutenberg zone (added February 2001) ... Modcomp II computer . hydrology models USE monomethylhydrazines . Lighthill gas model Modcomp IV computer . mathematical models data processing equipment . . analog simulation MMS multimission modular spacecraft . computers . . BGK model USE . . digital computers . . biological models (mathematics) ... Modcomp IV computer . . digital simulation mnemonics memory Mandelstam representation RT ∞ mode nomenclatures Petri nets (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . Thomas-Fermi model symbolic programming . . turbulence models symbols Baldwin-Lomax turbulence model RT failure modes k-epsilon turbulence model MNOS mode (statistics) . . . k-omega turbulence model . . Veneziano model USE metal-nitride-oxide-silicon modes mobile communication systems mode (statistics) . nuclear models Any configuration of mobile or transaverage distribution moments . ocean models portable voice and data communication equip-. quark models ment which allows for communication between failure modes . quark parton model combinations of mobile/fixed points with or withmean scale models out the aid of satellites. semispan models median (statistics) mobile communication systems spacecraft models GS ∞ mode land mobile satellite service modes standard model (particle physics) RT communication satellites moments static models Iridium network quality control three dimensional models **MSAT** . two dimensional models mode coupling radio communication . vector dominance model Rayleigh fading USE coupled modes . wind tunnel models . . powered models mode of vibration mobile lounges . multiscale models USE vibration mode airfield surface movements analogs airports dummies mode shapes ground handling layouts ∞ lounges USE modal response pilot plants replicas mode transformers mobile missile launchers simulators GS transducers launchers test facilities mode transformers . missile launchers transformers . mobile missile launchers modems mode transformers ballistic missile submarines modulators-demodulators impedance matching missile storage GS demodulators propagation modes missile systems . modems transmission lines weapon systems modulators vibration mode modems waveguide tuners mobile quarantine facility data transmission aerospace medicine peripheral equipment (computers) model reference adaptive control evacuating (transportation) phase demodulators This deals with three parameters: an ∞ facilities phase modulation ideal adaptive control system whose response is medical equipment pulse amplitude modulation agreed to be optimum; computer simulation in which both the model system and the actual medical services pulse communication physical examinations pulse duration modulation system are subjected to the same stimulus; and physiological tests pulse frequency modulation parameters of the actual system which are adjusted to minimize the difference in the outputs pulse modulation Mobile Servicing System (ISS) pulse position modulation of the model and the actual system. Used for (added September 2001)

JSE Space Station Mobile Servicing MRAC (systems). Moderate Resolution Imaging MRAC (systems) UF System Spectroradiometer GS automatic control (added June 2003) adaptive control mobility USE MODIS (radiometry) (EXCLUDES CONSIDERATIONS OF MANNED AND UNMANNED CRAFT) model reference adaptive control SN automata theory moderation (energy absorption) mobility autonomy energy absorption . atomic mobilities ∞ control . moderation (energy absorption) . carrier mobility control theory . . thermalization (energy absorption) . . electron mobility cybernetics . . neutron thermalization . . hole mobility dynamic control  $RT \, \infty \, absorption$ . ionic mobility feedback control limiters (fusion reactors) RT ∞ conductivity feedforward control moderators diffusivity mathematical models drift rate optimal control Hall effect self alignment DEF Materials that have a high cross seckinetic theory systems simulation portable equipment tion for slowing down fast neutrons with a minimum of absorption, e.g., heavy water, beryllium, transport properties models used in reactor cores. models RT beryllium MOCVD (vapor deposition) . aircraft models USE metalorganic chemical vapor . astronomical models blankets (fusion reactors) deposition . . density wave model graphite . stellar models heavy water modal response . atmospheric models limiters (fusion reactors) moderation (energy absorption) mode shapes . . Atmospheric General Circulation UF neutron absorbers GS responses . Models . reference atmospheres nuclear reactors modal response

. breadboard models

reactor materials

RT

dynamic response

water

#### modes

#### GS modes

- . axial modes
- . ballooning modes
- coupled modes
- . failure modes
- . laser modes
- . modes (standing waves)
- . propagation modes
- . whispering gallery modes
- . pushbroom sensor modes
- . vibration mode
- . . uncoupled modes

RT ∞ mode

mode (statistics)

tearing modes (plasmas)

#### modes (standing waves)

GS modes

modes (standing waves)

uncoupled modes vibration

#### **MODFETS**

Heterojunction field effect transistor device structures in which only the larger (Al, Ga)As bandgap is doped with donors while the GaAS layer is left undoped. This results in high electron mobilities due to spatially separated electrons and donors. Used for modulation doped FETs.

UF modulation doped fets

electronic equipment

- . solid state devices
- . . semiconductor devices
- . . . heterojunction devices
- . . . . high electron mobility transistors

## . MODFETS

- . . . transistors
- .... field effect transistors
- . MODFETS
- high electron mobility transistors . MODFETS

aluminum gallium arsenides

doped crystals

energy gaps (solid state) gallium arsenides

indium arsenides

ion implantation

#### modification

GS

USE revisions

modified embedded atom method

(added February 1998)

USE embedded atom method

#### MODIS (radiometry)

(added June 2003)

A high resolution spectroradiometer aboard the Terra and Aqua spacecraft designed to gather spectral data in 36 bands in order to increase the understanding of global environmental dynamics and processes. Launched in 1999.

UF Moderate Resolution Imaging

Spectroradiometer measuring instruments

- . radiation measuring instruments
  - . . actinometers
  - . . . radiometers
  - . . . spectroradiometers
    - . MODIS (radiometry)

Aqua spacecraft

data products

Earth observations (from space)

remote sensing

Terra spacecraft

# Modular Integrated Utility System

DEF A joint NASA-HUD concept incorporating various utilities -- electric power plant, water supply, heating and air conditioning, sewage treatment, and waste disposal into a single system having increased efficiency and economy. Use for MIUS.

UF MIUS

RT air conditioning communities

electric power plants

heating potable water

sewage treatment

∞ systems utilities

waste disposal

#### modular ratios

GS mechanical properties

modular ratios

ratios

modular ratios

composite materials

stress ratio

structural analysis

structural engineering

modularity

architecture (computers)

avionics

computer programs electronic modules systems engineering

#### modulated continuous radiation

GS continuous radiation

modulated continuous radiation

electromagnetic radiation

. modulated continuous radiation

coherent electromagnetic radiation phase deviation

modulating retrodirective optics

USE Miros system

#### modulation

DEF The variation in the value of some parameter characterizing a periodic oscillation. Specifically, variation of some characteristic of a radio wave, called the carrier wave, in accordance with instantaneous values of another wave, called the modulating wave. Used for carrier modulation.

carrier modulation

# modulation

- . amplitude modulation
- . quadrature amplitude modulation
- . frequency modulation
  . feedback frequency modulation
- . . FM/PM (modulation)
- . . frequency shift keying
  . . pulse frequency modulation
- intermodulation
- . ionospheric cross modulation . light modulation
- . . Miros system
- . . Immos system
  . ultrasonic light modulation
  phase modulation
  . FM/PM (modulation)
- . . phase shift keying
- ... binary phase shift keying quadrature phase shift keying
- polarization modulation
- . pulse modulation
- . . pulse amplitude modulation
- ... pulse code modulation
- . . . delta modulation
- . differential pulse code modulation
- . . pulse frequency modulation
- . . pulse time modulation ... pulse duration modulation
- pulse position modulation
- traveling wave modulation

velocity modulation carrier frequencies

carrier waves

companding

crystallization

demodulation demodulators

double sideband transmission

dynamic range interference factor table

modulators P.A.C.M. telemetry

pulse frequency modulation telemetry

radio transmission

remodulation selective fading telecommunication wave interaction

modulation doped fets

USE MODFETS

#### modulation doping

DEF The process of doping only the larger bandgap of a heterojunction device with donors, while the other layer is left undoped. Since the electrons and donors are spatially separated, ionized impurity scattering is avoided and extremely high electron mobilities are obtained.

doping (materials)

#### modulation doping

additives donor materials doped crystals

electron mobility energy gaps (solid state)

heterojunction devices heterojunctions

high electron mobility transistors ion implantation semiconductor devices semiconductors (materials)

#### modulation transfer function

MTF

GS functions (mathematics)

. transfer functions

. modulation transfer function

figure of merit imaging techniques optical measurement optical transfer function ∞ performance system effectiveness

#### modulators

DEF Devices to effect the process of modulation

#### modulators GS

systems analysis

. Bragg cells . light modulators . modems

amplifiers amplitude modulation

demodulators

electron tubes frequency modulation

light modulation

matched filters

modulation phase modulation pulse modulation

# modulators-demodulators USE modems

modules DEF 1, Self contained units of a launch vehicle or spacecraft that serve as building blocks for the overall structure. 2, A one package assembly of functionally associated electronic parts, usually a plug-in unit, so arranged as to

#### function as a system or subsystem.

- GS modules
  - . airlock modules . chemical release modules
  - . electronic modules . micromodules
  - . local scientific survey module . payload assist module
  - . power modules (STS)
  - . service modules . . Multi-Purpose Logistics Modules
  - . spacecraft docking modules
  - . spacecraft modules
  - . . command modules . . command service modules
  - . . landing modules . . . lunar landing modules
  - . . . . Lunar Module
  - . . . . . Apollo lunar experiment module

. . . . . LSSM

|  | Lunar Madula F  |  | Maira effects   |   | aaila   |
|--|---|--|---|---|---|
|  | Lunar Module 5<br>Lunar Module 7  |  | Moire effects   |   | soils   |
|  | Mars Excursion Module   | moiotuu  | 70  | moldine   | g materials   |
|  | SIM   | moistui<br>GS  | moisture  | GS  | molding materials   |
|  | . space station modules   | 00   | . atmospheric moisture  |   | . sheet molding compounds   |
|  | Columbus module   |  | . soil moisture   | RT  | binders (materials)   |
|  | Destiny Laboratory Module   | RT   | humidity  |   | casting   |
|  | Kvant modules   |  | hygral properties   |   | clays   |
|  | Multi-Purpose Logistics Modules   |  | meteorological parameters   |   | cores   |
|  | Priroda module  |  | meteorology   |   | injection molding   |
|  | Service Module (ISS)  |  | water   | ~   | o materials   |
|  | Unity connecting module Zarya control module  |  | water vapor   |   | molds<br>plasters   |
| RT   | circuits  |  |   |   | plastics  |
| 17.1   | compartments  | moistui<br>UF  | re content  |   | resin transfer molding  |
| ~  | components  | UF   | dampness<br>water content   |   | sand casting  |
|  | instrument packages   |  | wetness   |   | sands   |
|  | space tugs  | GS   | composition (property)  |   | tenite  |
|  | spare parts   |  | . concentration (composition)   |   |   |
|  |   |  | moisture content  | Moldov  |   |
|  | s of elasticity   |  | atmospheric moisture  |   | ed September 1994)  |
|  | The ratio of stress (nominal) to corre-   | RT   | atmospheric composition   | GS  | nations<br>. <b>Moldova</b>   |
|  | g strain below the proportional limit of a  |  | chemical properties   | RT  | Europe  |
|  | . It is expressed in force per unit area.   |  | humidity  | 101   | Lurope  |
|  | r compliance (elasticity), elastic modu-<br>Young modulus.  |  | hydrothermal stress analysis  | molds   |   |
| UF   | compliance (elasticity)   |  | hygroscopicity<br>lysimeters  | SN  | (EXCLUDES ORGANISMS)  |
| 01   | elastic modulus   |  | mixing ratios   | RT  | casting   |
|  | Young modulus   |  | soil moisture   |   | castings  |
| GS   | mechanical properties   |  | water   |   | dies  |
|  | . elastic properties  |  | water vapor   |   | flat patterns   |
|  | modulus of elasticity   |  | •   |   | foundries   |
|  | dynamic modulus of elasticity   | moisture   | e detectors   |   | ingots injection molding  |
| RT   | anelasticity  | USE  | moisture meters   |   | mandrels  |
|  | bending   |  |   |   | melting   |
|  | Hookes law  | moistu   | re meters   | ~   | ∘ mold  |
|  | hydroelasticity<br>nanoindentation  | UF   | moisture detectors  |   | molding materials   |
|  | Poisson ratio   | GS   | measuring instruments   |   | organic materials   |
|  | proportional limit  |  | moisture meters   | ~   | o patterns  |
| 00   | rigidity  |  | hygrometers   |   | preforms  |
|  | shear properties  | RT   | psychrometers   |   | pressing (forming)  |
|  | stiffness   | KI   | chemical analysis<br>humidity   |   | punches   |
|  | stress-strain diagrams  |  | humidity measurement  |   | resin transfer molding sheet molding compounds  |
|  |   |  |   |   |   |
|  |   |  | •   |   |   |
| MOEMS  | 3   | moistu   | re resistance   |   | tablets   |
|  | S<br>ed December 2005)  |  | re resistance<br>caulking   |   |   |
|  | ed December 2005)<br>microoptoelectromechanical   | moistui<br>RT  | re resistance<br>caulking<br>coatings   | molecu  | tablets   |
| (adde  | ed December 2005)   |  | caulking  |   | tablets<br>templates  |
| (adde<br>USE   | ed December 2005)<br>microoptoelectromechanical<br>systems  |  | caulking coatings   |   | tablets templates lar absorption  |
| (adde<br>USE<br>Mohawk   | ed December 2005) microoptoelectromechanical systems aircraft   |  | caulking<br>coatings<br>hydrophobicity<br>hydrothermal stress analysis<br>hygroscopicity  | GS  | tablets templates  lar absorption energy absorption . radiation absorption . molecular absorption   |
| (adde<br>USE<br>Mohawk   | ed December 2005)<br>microoptoelectromechanical<br>systems  | RT   | caulking coatings hydrophobicity hydrothermal stress analysis hygroscopicity porosity   | GS  | tablets templates  lar absorption energy absorption radiation absorption . molecular absorption absorption  |
| (adde<br>USE<br>Mohawk<br>USE  | ed December 2005) microoptoelectromechanical systems a aircraft OV-1 aircraft   | RT   | caulking coatings hydrophobicity hydrothermal stress analysis hygroscopicity porosity resistance  | GS  | tablets templates  lar absorption energy absorption . radiation absorption . molecular absorption absorption atmospheric attenuation  |
| (adde<br>USE<br>Mohawk<br>USE<br>Mohr cir  | ed December 2005) microoptoelectromechanical systems  a aircraft OV-1 aircraft  | RT   | caulking coatings hydrophobicity hydrothermal stress analysis hygroscopicity porosity resistance sealing  | GS  | tablets templates  lar absorption energy absorption . radiation absorption . molecular absorption • absorption atmospheric attenuation Beer law   |
| (adde<br>USE<br>Mohawk<br>USE<br>Mohr cir  | ed December 2005) microoptoelectromechanical systems a aircraft OV-1 aircraft   | RT   | caulking coatings hydrophobicity hydrothermal stress analysis hygroscopicity porosity resistance sealing waterproofing  | GS  | tablets templates  lar absorption energy absorption . radiation absorption . molecular absorption absorption atmospheric attenuation Beer law electromagnetic absorption  |
| Mohawk<br>USE<br>Mohr cii<br>USE   | ed December 2005) microoptoelectromechanical systems  a aircraft OV-1 aircraft  roles fracture mechanics  | RT   | caulking coatings hydrophobicity hydrothermal stress analysis hygroscopicity porosity resistance sealing  | GS  | tablets templates  lar absorption energy absorption . radiation absorption . molecular absorption • absorption atmospheric attenuation Beer law   |
| Mohawk<br>USE<br>Mohr cii<br>USE<br>Moire e  | ad December 2005) microoptoelectromechanical systems  a aircraft OV-1 aircraft  roles fracture mechanics  | RT °   | caulking coatings hydrophobicity hydrothermal stress analysis hygroscopicity porosity resistance sealing waterproofing weatherproofing  | GS<br>RT ∘  | tablets templates  lar absorption energy absorption . radiation absorption . molecular absorption absorption atmospheric attenuation Beer law electromagnetic absorption light transmission   |
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| chains  | Langmuir-Blodgett films   | ∞ interactions  |
| crystal lattices  | large scale integration   | intermolecular forces   |
| macromolecules  | linear integrated circuits  | internuclear properties   |
| monomers  | medium scale integration  | interstellar chemistry ionic reactions  |
| netting (materials/structures)  | microelectronics<br>microminiaturization                                | Lennard-Jones potential   |
| molecular clouds  | miniature electronic equipment  | mass flow   |
| DEF Thickest and densest interstellar                                 | monomolecular films   | molecular dynamics  |
| clouds consisting mainly of molecular hydrogen                        | pi-electrons  | ∞ molecular physics   |
| but also a high concentration of dust grains.  RT astronomical models | semiconductor devices   | molecular properties<br>transport theory  |
| ∞ clouds  | thin films<br>TTL integrated circuits                                   | transport trieory   |
| cosmic dust   | very large scale integration  | molecular ions  |
| diffuse interstellar bands  | ,   | GS ions   |
| galactic halos  | molecular energy levels   | . molecular ions<br>formyl ions   |
| hydrogen clouds<br>infrared cirrus (astronomy)                        | GS level (quantity)   | hydronium ions  |
| interstellar chemistry  | . energy levels<br><b>molecular energy levels</b>                       | vanadyl radical   |
| interstellar gas  | intermolecular forces   | RT amino radical  |
| interstellar masers   | rotational states   | electron affinity   |
| interstellar matter   | vibrational states  | ∞ molecular physics   |
| laboratory astrophysics   | molecular properties  | positive ions   |
| methylidyne<br>star formation   | . molecular energy levels intermolecular forces                         | molecular orbitals  |
| Submillimeter Wave Astronomy  | rotational states   | GS molecular properties   |
| Satellite   | vibrational states  | . molecular orbitals  |
| and a few days  | RT chemical energy  | orbitals<br>. molecular orbitals  |
| molecular clusters<br>(added January 1994)                            | ∞ energy  | wave functions  |
| GS molecular clusters   | energy of formation excimers  | . molecular orbitals  |
| . micelles  | free energy   | RT quantum chemistry  |
| RT agglomeration  | heat of solution  | self consistent fields  |
| atomic clusters   | internal energy   | molecular oscillations  |
| chemisorption<br>clumps   | ∞ nuclear energy  | GS molecular properties   |
| ∞ clusters  | molecular excitation  | molecular oscillations  |
| fullerenes  | GS excitation   | oscillations  |
| metal clusters  | . molecular excitation  | . molecular oscillations  |
| nanoclusters  | RT atomic excitations   | RT argon lasers<br>carbon dioxide lasers  |
| nucleation  | energy levels   | carbon monoxide lasers  |
| molecular collisions  | ionization<br>particle collisions                                       | gas lasers  |
| GS collisions   | photoexcitation   | oscillator strengths  |
| molecular collisions  | rotational spectra  | molecular oscillators   |
| particle interactions . molecular interactions                        | rotational states   | GS oscillators  |
| molecular collisions  | vibrational states  | . molecular oscillators   |
| RT atomic collisions  | molecular flow  | RT lasers   |
| BGK model   | SN (FLOW WITH KNUDSEN NUMBERS   | masers  |
| ∞ interactions  | GREATER THAN 0. 01FOR SPECIFIC<br>FLOWS IN THIS RANGE USE               | oscillator strengths<br>two-wavelength lasers                                       |
| particle collisions<br>rigid rotors (plasma physics)                  | NARROWER TERMSFOR DUCTED  | ultraviolet lasers  |
| rigid rotors (plasma priysics)  | MOLECULAR FLOW USE KNUDSEN FLOW)  |   |
| molecular diffusion   | DEF The flow of gas through a duct under                                | ∞ molecular physics   |
| GS diffusion  | conditions such that the mean free path is                              | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS                  |
| . <b>molecular diffusion</b> RT atmospheric diffusion                 | greater than the largest dimension of a transverse section of the duct. | LISTED BELOW)   |
| diffusion coefficient   | GS fluid flow   | RT internuclear properties  Mayer problem   |
| diffusion waves   | . gas flow  | molecular dynamics  |
| dissociation  | molecular flow  | molecular interactions  |
| gaseous diffusion   | slip flow   | molecular ions  |
| gaseous self-diffusion particle diffusion                             | transition flow RT BGK model  | monatomic molecules   |
| self diffusion (solid state)  | boundary layer transition   | ∞ physics<br>∞ science  |
| surface diffusion   | continuum flow  | 30 Solemo   |
|   | Knudsen flow  | molecular properties  |
| molecular dissociation  | low density flow  | (added April 2004)  |
| USE dissociation  | rarefied gas dynamics transpiration                                     | DEF Fundamental information regarding molecules such as weight, structure, rotation |
| molecular dynamics  | transpiration   | vibration, spectra, etc.  |
| (added January 1994)  | molecular gases   | GS molecular properties   |
| RT computerized simulation  | GS gases  | . molecular energy levels   |
| crystal structure   | . molecular gases   | intermolecular forces   |
|   | polar gases   | rotational states<br>vibrational states   |
| microstructure  | polyatomic gases diatomic gases   | . vibrational states<br>. molecular orbitals  |
| molecular interactions  | RT association reactions  | . molecular oscillations  |
| ∞ molecular physics   | gas dynamics  | . molecular relaxation  |
| molecular properties  | monatomic gases   | . molecular rotation  |
| molecular trajectories  | nonpolar gases  | . molecular spectra   |
| physical chemistry  | rarefied gases  | electronic spectra  |

. . Raman spectra

. . rotational spectra

. . vibrational spectra

. molecular structure

. molecular weight

. low molecular weights

molecular dynamics molecular interactions

## molecular pumps

GS pumps

. vacuum pumps

. molecular pumps

vacuum apparatus . vacuum pumps

. molecular pumps

plasma pumping pump seals

#### molecular relaxation

chemical relaxation vibrational relaxation molecular properties

. molecular relaxation

RT gas flow

population inversion

∞ relaxation

relaxation (mechanics)

relaxation time shock waves

thermodynamics vibration damping

vibrational spectra

#### molecular rotation

GS gyration

. rotation

. . molecular rotation

molecular properties

. molecular rotation microwave spectra

Raman spectra

rigid rotors (plasma physics)

rotational spectra

#### molecular shields

DEF Furlable devices used in space vacuum research to permit deployment and retrieval of instruments and the performance of experiments without contamination.

RT contamination

high vacuum

instrument packages

spaceborne experiments

molecular sieves

USE absorbents

#### molecular spectra

GS molecular properties

molecular spectra

. . electronic spectra

. . Raman spectra . . rotational spectra

. vibrational spectra

spectra

#### . molecular spectra

. . electronic spectra

. . Raman spectra

. . rotational spectra

. vibrational spectra

absorption spectra

electromagnetic spectra

emission spectra

energy spectra infrared spectra

mass spectra

microwave spectra

oxygen spectra

solar spectra

stellar spectra

Swan bands

ultraviolet spectra

Vegard-Kaplan bands

visible spectrum

#### molecular spectroscopy

spectroscopy

molecular spectroscopy

. . Raman spectroscopy

RT absorption spectra

electron spectroscopy emission spectra

infrared spectroscopy

line spectra

microwave spectra

optogalvanic spectroscopy

rotational spectra

spectroscopic analysis

ultraviolet spectroscopy

vacuum spectroscopy x ray spectroscopy

molecular structure

GS molecular properties

. molecular structure

atomic interactions

atomic structure

biopolymer denaturation

complex compounds

configuration interaction

coordination number crystal lattices

enantiomers

hydrogen bonds infrared spectroscopy

intermolecular forces

intramolecular structures

macromolecules

molecules

monatomic molecules

nuclear magnetic resonance nuclear models

order-disorder transformations

polyatomic molecules

polywater self assembly

∞ structures

unimolecular structures

Wiswesser notations

# molecular theory

RT Lighthill gas model

 $\infty$  theories

## molecular trajectories

GS

trajectories . molecular trajectories

gas flow molecular dynamics

# molecular weight

DEF The weight of a given molecule expressed in atomic weight units.

GS molecular properties

. molecular weight
. low molecular weights

macromolecules

molecules

monatomic molecules

polyatomic molecules

weight (mass)

# molecules

DEF Aggregates of two or more atoms of a substance that exists as a unit. Used for macromolecules.

# GS molecules

. macromolecules

. . dendrimers

. monatomic molecules

. polyatomic molecules

. . diatomic molecules . triatomic molecules

atoms

buckminsterfullerene

chemical bonds ∞ chemical compounds

ions low molecular weights

molecular beams molecular structure molecular weight

#### moles

animals GS

. vertebrates

. . mammals

. . . moles

Moliere formula

USE cosmic ray showers secondary cosmic rays spatial distribution

#### Mollier diagram

enthalpy-entropy diagrams

GS charts

. graphs (charts)

diagrams
. Mollier diagram

enthalpy

entropy

equations of state ideal fluids

isentrope

thermodynamics

#### mollusks

GS animals

. invertebrates

. . mollusks . . . cephalopods

. . . octopuses

. . snails

# RT shellfish Molniya satellites

GS artificial satellites

. communication satellites

. . Molniya satellites

. Soviet satellites

. . Molniya satellites electric discharges

radio relay systems satellite networks

telecommunication television transmission

# U.S.S.R. space program

molten carbonate fuel cells (added December 1995)

GS electric generators

. direct power generators . fuel cells

. molten carbonate fuel cells electrochemical cells

. fuel cells

. molten carbonate fuel cells carbonates

# molten salt electrolytes

molten salt electrolytes

GS conductors . electrolytes

. molten salt electrolytes

# molten carbonate fuel cells

molten salt nuclear reactors

MSRE reactors

nuclear reactors . molten salt nuclear reactors

RT ∞ reactors

molten salts DEF High temperature inorganic salt or mixtures of salts used for thermal energy storage, heat exchangers, high power electric batteries,

heat treatment of alloys, etc. RT

halides halites

inorganic compounds nitrides

sodium chlorides

salt baths ∞ salts

molting phenology shedding

# molybdates

GS molybdenum compounds

. molybdates .. lead molybdates

molvbdenum GS chemical elements

. molybdenum GS electronic equipment turning flight metals . solid state devices momentum energy . refractory metals . . semiconductor devices USE kinetic energy molybdenum .. MOM (semiconductors) . transition metals semiconductors (materials) momentum theory . molybdenum MOM (semiconductors) conservation laws refractory materials ion implantation RT Newton second law . refractory metals ∞ theories . molybdenum moment distribution molybdenum isotopes distribution (property) momentum transfer . moment distribution RT ∞ dynamics molybdenum alloys angular distribution energy transfer GS alloys force distribution gas-liquid interactions . heat resistant alloys influence coefficient hydrodynamic ram effect . . refractory metal alloys loading moments kinetic theory ... molybdenum alloys loads (forces) kinetics . . . . Rene 41 mass distribution Prandtl number Rene 63 method of moments transferring . . . . Rene 77 moments ... Rene 95 moments of inertia Monaco refractory materials nations . refractory metal alloys
. . molybdenum alloys pressure distribution GS Monaco static loads stress concentration RT Europe Rene 41 ... Rene 63 structural analysis monatomic gases . . . Rene 77 structural design criteria atomic gases . Rene 95 GS gases RT Hastelloy (trademark) mulberry (alloy) moments monatomic gases GS moments Chapman-Enskog theory Permalloys (trademark) bending moments molecular gases stainless steels . dipole moments rare gases . . electric moments real gases molybdenum carbides . magnetic moments carbon compounds monatomic molecules . distribution moments . carbides . . mean GS molecules . . molybdenum carbides orthogonality monatomic molecules standard deviation RT atoms molybdenum compounds . loading moments chemical bonds GS molybdenum compounds . moments of inertia ∞ chemical compounds . molybdates stability derivatives ions . lead molybdates . molybdenum disulfides . molybdenum oxides RT ∞ chemical compounds ∞ Group 6B compounds . . pitching moments low molecular weights . . rolling moments ∞ molecular physics . . yawing moments molecular structure torque molecular weight method of moments positive ions ∞ metal compounds mode (statistics) monaural signals moment distribution molybdenum disulfides momentum audio equipment GS chalcogenides audio frequencies skewness . sulfides auditory perception torsion . . inorganic sulfides variance (statistics) auditory signals . . . molybdenum sulfides loudspeakers molybdenum disulfides microphones molybdenum compounds moments of inertia sound transmission . molybdenum disulfides UF inertia moments sulfur compounds GS moments monazite sands . sulfides moments of inertia GS phosphorus compounds . . inorganic sulfides angular momentum RT phosphates . . . molybdenum sulfides center of gravity center of pressure .. monazite sands .... molybdenum disulfides sediments centroids . sands molybdenum isotopes equations of motion . monazite sands chemical elements Euler equations of motion soils . nuclides inertia . sands . . isotopes inertia principle . monazite sands ... molybdenum isotopes Mach inertia principle minerals RT molybdenum mass sedimentary rocks mass distribution molybdenum oxides Monel (trademark) moment distribution GS chalcogenides pitching moments GS alloys . oxides . nickel alloys rolling moments .. metal oxides stability derivatives . Monel (trademark) . . molybdenum oxides stress analysis molybdenum compounds Monge-Ampere equation structural strain algebra . nonlinear equations . mólybdenum oxides GS torque yawing moments molybdenum sulfides Monge-Ampere equation analysis (mathematics) real variables GS chalcogenides . sulfides momentum . . differential equations . . inorganic sulfides Quantity of motion. . . . molybdenum sulfides momentum ... partial differential equations ... elliptic differential equations . . molybdenum disulfides angular momentum . . . . . Monge-Ampere equation . . . . nonlinear equations sulfur compounds transverse momentum . sulfides classical mechanics . . inorganic sulfides de Broglie wavelengths Monge-Ampere equation ... molybdenum sulfides ∞ dynamics RT boundary value problems . . . . molybdenum disulfides moments ∞ equations motion

motion aftereffects

pendulums

MOM (semiconductors)

metal-oxide-metal semiconductors

Mongolia GS nations

| . Mongolia  | motion perception  | . B-26 aircraft                                |
|---|--|--|
| RT Asia   | perception   | . B-47 aircraft                                |
| monitors  | space perception   | . B-50 aircraft                                |
| RT aircraft instruments                             | monocytes  | . B-52 aircraft<br>. B-57 aircraft             |
| analyzers   | (added August 2004)  | . B-58 aircraft                                |
| conical scanning                                    | DEF Large, phagocytic mononuclear leuko-   | . B-66 aircraft                                |
| counters  | cytes produced in the vertebrate bone marrow   | . B-70 aircraft                                |
| data recorders<br>∞ detectors                       | and released into the blood; contain a large, oval<br>or somewhat indented nucleus surrounded by | . BAC 111 aircraft                             |
| display devices                                     | voluminous cytoplasm and numerous or-  | . Beechcraft 18 aircraft                       |
| environmental monitoring                            | ganelles.  | . Boeing 707 aircraft                          |
| gas detectors                                       | GS cells (biology)   | . Boeing 720 aircraft                          |
| helmet mounted displays                             | . blood cells  | . Boeing 733 aircraft . Boeing 737 aircraft    |
| in-flight monitoring<br>∞ instruments               | leukocytes   | . Boeing 757 aircraft                          |
| ∞ measurement                                       | <b>monocytes</b><br>RT biocompatibility  | . Boeing 767 aircraft                          |
| measuring instruments                               | blood cell count   | . Breguet 940 aircraft                         |
| optical scanners                                    | bone marrow  | . Breguet 941 aircraft                         |
| pollution monitoring                                | cytology   | . Breguet 1150 aircraft                        |
| radiation measuring instruments                     | erythrocytes   | . Buccaneer aircraft<br>. C-2 aircraft         |
| scanning<br>warning                                 | immune systems   | . C-33 aircraft                                |
| warning systems                                     | monoethanolamine (MEA)   | . C-35 aircraft                                |
| warring eyeterine                                   | GS organic compounds   | . C-46 aircraft                                |
| monkeys   | . amines   | . C-47 aircraft                                |
| GS animals  | monoethanolamine (MEA)   | . C-54 aircraft<br>. C-118 aircraft            |
| . vertebrates<br>mammals                            | monoids  | . C-121 aircraft                               |
| primates  | GS algebra   | . C-123 aircraft                               |
| monkeys   | group theory   | . C-124 aircraft                               |
|   | homomorphisms  | . C-130 aircraft                               |
| monochromatic radiation                             | monoids  | . C-131 aircraft                               |
| SN (LIMITED TO ELECTROMAGNETIC RADIATION)           | monolithic circuits  | . C-133 aircraft<br>. C-135 aircraft           |
| GS electromagnetic radiation                        | USE integrated circuits  | . C-140 aircraft                               |
| . monochromatic radiation                           | OOL Integrated endures   | . C-141 aircraft                               |
| RT beams (radiation)                                | monomers   | . C-160 aircraft                               |
| Brillouin effect coherent electromagnetic radiation | DEF Low molecular weight substances con-   | . Canberra aircraft                            |
| coherent light                                      | sisting of molecules capable of reacting with like   | . Cessna 172 aircraft<br>. Cessna 205 aircraft |
| ∞ filters   | or unlike molecules to form a polymer.  RT dibasic compounds                                     | . Cessna 200 aircraft                          |
| gamma rays  | dimers   | . Cessna 402B aircraft                         |
| infrared radiation                                  | molecular chains   | . Cessna L-19 aircraft                         |
| ionizing radiation<br>light (visible radiation)     | oligomers  | . CL-41 aircraft                               |
| long wave radiation                                 | oxetane polymers   | . CL-44 aircraft                               |
| monochromatization                                  | ∞ polymers prepolymers   | . Comet 4 aircraft<br>. CV-340 aircraft        |
| monochromators                                      | trimers  | . CV-440 aircraft                              |
| polarized electromagnetic radiation                 |  | . CV-880 aircraft                              |
| polarized light<br>∞ radiation                      | monomethylhydrazines   | . CV-990 aircraft                              |
| radio waves   | (added February 2001)  | . D-558 aircraft                               |
| short wave radiation                                | UF MMH (chemistry) GS hydrazines   | . DC 3 aircraft<br>. DC 7 aircraft             |
| ultraviolet radiation                               | . methylhydrazine  | . DC 8 aircraft                                |
| x rays  | monomethylhydrazines   | . DH 112 aircraft                              |
| monochromatization                                  | RT dimethylhydrazines  | . DH 115 aircraft                              |
| UF interference monochromatization                  | hydrazine engines  | . DH 121 aircraft                              |
| RT monochromatic radiation                          | hypergolic rocket propellants<br>liquid rocket propellants                                       | . DH 125 aircraft<br>. DHC 2 aircraft          |
| particle energy                                     | liquid focket propellants  | . DHC 2 aircraft                               |
| polarization (waves)                                | monomolecular films  | . DHC 5 aircraft                               |
| monochromators                                      | UF Langmuir monolayers   | . DO-27 aircraft                               |
| GS measuring instruments                            | GS thin films  | . DO-28 aircraft                               |
| . monochromators                                    | . monomolecular films Langmuir-Blodgett films  | . DO-31 aircraft . Electra aircraft            |
| radiation sources                                   | RT energy absorption films   | . F-2 aircraft                                 |
| . monochromators<br>RT comparators                  | ∞ films  | . F-4 aircraft                                 |
| duochromators                                       | integrated optics  | . F-5 aircraft                                 |
| goniometers   | ∞ layers   | . F-8 aircraft                                 |
| light sources                                       | molecular electronics  | . F-9 aircraft<br>. F-17 aircraft              |
| monochromatic radiation                             | self assembly<br>surface layers  | . F-17 aircraft                                |
| optical equipment                                   | surfactants  | . F-28 transport aircraft                      |
| optical measuring instruments photogoniometers      | thin layer chromatography  | . F-84 aircraft                                |
| spectrophotometers                                  |  | . F-86 aircraft                                |
|   | monoplanes   | . F-89 aircraft                                |
| monocoque structures                                | GS monoplanes<br>. A-1 aircraft  | . F-94 aircraft<br>. F-100 aircraft            |
| RT ∞ cylinders<br>shells (structural forms)         | . A-2 aircraft   | . F-100 aircraft                               |
| stressed-skin structures                            | . A-3 aircraft   | . F-104 aircraft                               |
| ∞ structures  | . A-4 aircraft   | . F-105 aircraft                               |
|   | . A-5 aircraft   | . F-106 aircraft                               |
| monocrystals  | . A-6 aircraft   | . FD 2 aircraft                                |
| USE single crystals                                 | . A-7 aircraft<br>. A-37 aircraft  | . G-1 aircraft<br>. G-91 aircraft              |
| monocular vision                                    | . AN-22 aircraft   | . G-95/4 aircraft                              |
| GS vision   | . AN-24 aircraft   | . G-222 aircraft                               |
| . monocular vision                                  | . Argosy MK-1 aircraft   | . GA-5 aircraft                                |
| RT human factors engineering                        | . AVRO 707 aircraft  | . H-126 aircraft                               |

RT human factors engineering

|      | . HFB-320 aircraft                                   | ∞       | spikes  |              | . monotone functions                                |
|------|--|---------|---|--------------|---|
|      | . HP-115 aircraft                                    |         | _   | RT           | analysis (mathematics)                              |
|      | . HS-748 aircraft                                    | monopo  |   |              | calculus  |
|      | . IL-14 aircraft                                     |         | monopoles   |              | real variables                                      |
|      | . IL-62 aircraft                                     |         | . magnetic monopoles                                    |              |   |
|      | . jet provost aircraft                               |         | dipoles<br>monopole antennas                            | monote<br>RT | boredom   |
|      | Jindivik target aircraft     L-29 jet trainer        |         | multipoles  | IXI          | lethargy  |
|      | . Lockheed model 18 aircraft                         |         | poles   |              | sensory deprivation                                 |
|      | . MH-262 aircraft                                    |         | poloc   |              | concery deprivation                                 |
|      | . Mirage aircraft                                    | monopro | ppellants   | monso        | ons   |
|      | Mirage 3 aircraft                                    | GS      | propellants   | DEF          | Seasonal winds caused primarily by                  |
|      | . Boeing 717 aircraft                                |         | . rocket propellants                                    | 0            | ater annual variation in air temperature            |
|      | . Mystere 20 aircraft                                |         | liquid rocket propellants                               |              | rge land surfaces compared to ocean                 |
|      | . Nord 1500 aircraft                                 |         | monopropellants   |              | s though other factors like land-relief are         |
|      | . OV-1 aircraft                                      |         | aircraft fuels  | importa      |   |
|      | . OV-10 aircraft                                     |         | chemical fuels<br>gaseous rocket propellants            | GS           | wind (meteorology)                                  |
|      | . P-3 aircraft                                       |         | gaseous rocket propellants<br>gelled rocket propellants | RT           | . monsoons<br>annual variations                     |
|      | . P-51 aircraft<br>. P-166 aircraft                  |         | metal propellants                                       | IXI          | atmospheric circulation                             |
|      | . P-308 aircraft                                     |         | plastic propellants                                     |              | ground wind   |
|      | . P-1127 aircraft                                    |         | propellant decomposition                                |              | Madden-Julian Oscillation                           |
|      | . P-1154 aircraft                                    |         | slurry propellants                                      |              | precipitation (meteorology)                         |
|      | . PD-808 aircraft                                    |         | solid rocket propellants                                |              | sea breeze  |
|      | . S-2 aircraft                                       |         |   |              |   |
|      | . S-3 aircraft                                       |         | Ise antennas  | Montar       |   |
|      | . Saab 105 aircraft                                  |         | antennas  | GS           | nations   |
|      | . SC-1 aircraft                                      |         | monopulse antennas                                      |              | . United States                                     |
|      | . SC-5 aircraft                                      |         | directional antennas                                    | DT           | Montana   |
|      | . SC-7 aircraft                                      |         | phased arrays   | RT           | Bighorn Mountains (MT-WY)                           |
|      | . Scimitar aircraft                                  |         | waveguide antennas                                      |              | Missouri River (US) Williston Basin (North America) |
|      | . SE-210 aircraft                                    | mononu  | lse radar   |              | Yellowstone National Park                           |
|      | . Shackleton bomber<br>. T-2 aircraft                |         | radar   |              | (ID-MT-WY)  |
|      | . T-28 aircraft                                      |         | . Doppler radar   |              | (.2 )   |
|      | . T-33 aircraft                                      |         | pulse Doppler radar                                     | Monte        | Carlo method  |
|      | . T-37 aircraft                                      |         | monopulse radar   | GS           | analysis (mathematics)                              |
|      | . T-38 aircraft                                      |         | . pulse radar   |              | . numerical analysis                                |
|      | . T-39 aircraft                                      |         | pulse Doppler radar                                     |              | Monte Carlo method                                  |
|      | . TS-11 aircraft                                     |         | monopulse radar   | RT           | diffusion theory                                    |
|      | . TSR-2 aircraft                                     |         | Doppler radar   |              | expectancy hypothesis                               |
|      | . TU-104 aircraft                                    |         | duplexers   |              | game theory   |
|      | . TU-124 aircraft                                    |         | radar tracking<br>tracking radar                        |              | Markov chains mathematical models                   |
|      | . TU-134 aircraft                                    |         | tracking radar  |              | mathematical models<br>∞ methodology                |
|      | . U-2 aircraft                                       | monosa  | ccharides   |              | probability theory                                  |
|      | . U-10 aircraft                                      |         | organic compounds                                       |              | random processes                                    |
|      | . Valiant aircraft . VC-10 aircraft                  |         | . carbohydrates   |              | random walk   |
|      | . Victor MK-1 aircraft                               |         | sugars  |              | renormalization group methods                       |
|      | . Viscount aircraft                                  |         | monosaccharides   |              | simulation  |
|      | . VJ-101 aircraft                                    |         | hexoses   |              | statistical analysis                                |
|      | . X-1 aircraft                                       |         | galactose   |              | stochastic processes                                |
|      | . X-2 aircraft                                       |         | glucose   |              | transport theory                                    |
|      | . X-3 aircraft                                       |         | pentose   |              | - (a)   |
|      | . X-5 aircraft                                       |         | ribose  |              | rey Bay (CA)  |
|      | . X-13 aircraft                                      |         | xylose  | GS           | bays (topographic features)                         |
|      | . X-14 aircraft                                      | monosco | ones  | RT           | . Monterey Bay (CA)<br>California                   |
|      | . X-21 aircraft                                      |         | electron tubes  | IXI          | Pacific Ocean                                       |
|      | . X-21A aircraft                                     |         | . vacuum tubes  |              | r dome Geedin                                       |
|      | . X-31 aircraft<br>. XC-142 aircraft                 |         | cathode ray tubes                                       | month        |   |
|      | . XV-4 aircraft                                      |         | monoscopes  | DEF          | The period of the revolution of the                 |
|      | . XV-5 aircraft                                      |         | television equipment                                    |              | around the Earth. The month is desig-               |
|      | . YS-11 aircraft                                     |         | . monoscopes  |              | s sidereal, tropical, anomalistic, dracon-          |
|      | . Z-37 aircraft                                      |         | camera tubes  | tic, or s    | ynodical, according to whether the revo-            |
| RT   | aerodynamic configurations                           |         | electron beams  | lution is    | relative to the stars, the vernal equinox,          |
| 0    | ∘ aircraft   |         | image tubes   |              | gee, the ascending node, of the sun. The            |
|      | airfoils   |         | secondary emission                                      |              | ar month, which is a rough approximation            |
|      | biplanes   | ∞       | test equipment  | UF           | synodical month. Used for lunation.  lunation       |
|      | cargo aircraft                                       | monosta | ble multivibrators                                      | RT           | calendars   |
|      | gliders  |         | circuits  | IXI          | time  |
| 0    | olow wing aircraft                                   |         | . multivibrators  |              | units of measurement                                |
|      | seaplanes  |         | monostable multivibrators                               |              |   |
|      | tailless aircraft water takeoff and landing aircraft |         |   | montic       | ellite  |
|      | wing planforms                                       | monoted | etic alloys   | GS           | calcium compounds                                   |
|      | wing profiles  | DEF     | Metallic composite materials having a                   |              | monticellite  |
| 0    | winged vehicles                                      |         | d phase of solidification products dis-                 |              | magnesium compounds                                 |
| -    | J  |         | within a matrix. The dispersed compo-                   |              | . monticellite                                      |
|      | -1   |         | n be selected to provide characteristics                |              | minerals  |
|      | ole antennas   |         | superconductivity or lubricity.                         |              | . monticellite                                      |
| UF   | spike antennas                                       |         | alloys  |              | silicon compounds                                   |
| GS   | antennas   |         | . monotectic alloys                                     |              | . silicates   |
|      | . omnidirectional antennas monopole antennas         |         | composite materials matrices                            | RT           | monticellite olivine                                |
|      | whip antennas  |         | metal matrix composites                                 | I/I          | Ollville  |
| RT   | antenna design                                       |         | metals  | montm        | orillonite  |
| 13.1 | dipole antennas                                      |         |   |              | A group of monoclinic silicate clay min-            |
|      | loop antennas  | monotor | ne functions  |              | with widely varying compositions, and               |
|      | monopoles  |         | functions (mathematics)                                 |              | erized by swelling in water.                        |
|      |  |         |   |              |   |

| UF      | smectite                            |                | mass drivers                    |         | morphine                         |
|---------|-------------------------------------|----------------|---------------------------------|---------|----------------------------------|
| GS      | aluminum compounds                  |                | orbital mechanics               |         |                                  |
|         | . aluminum silicates                |                | reentry trajectories            |         | ological indexes                 |
|         | montmorillonite                     |                | round trip trajectories         | GS      | ratios                           |
|         | clays                               |                | transfer orbits                 |         | . indexes (ratios)               |
|         | . montmorillonite<br>minerals       | moonle         | to                              | RT      | morphological indexes morphology |
|         | . montmorillonite                   |                | ed July 1989)                   | IXI     | morphology                       |
|         | silicon compounds                   | GS             | celestial bodies                | morpho  | ology                            |
|         | . silicates                         |                | . moonlets                      | ĠS      | morphology                       |
|         | aluminum silicates                  | RT             | Jupiter rings                   |         | . crystal morphology             |
|         | montmorillonite                     |                | natural satellites              |         | . geomorphology                  |
| RT      | bentonite                           |                | planetary rings                 |         | . isomorphism                    |
|         |                                     |                | Saturn rings                    |         | . lung morphology                |
| moods   | amatianal faatara                   |                | Uranus rings                    | DT      | . polymorphism                   |
| RT      | emotional factors<br>emotions       |                | valvan                          | RT      | anatomy<br>∞ biology             |
|         | melatonin                           | moonqı<br>GS   |                                 |         | differentiation (biology)        |
|         | psychological effects               | GS             | seismology<br>. moonquakes      |         | geology                          |
|         | psychological factors               | RT             | lunar geology                   |         | histology                        |
|         | sensory feedback                    | 13.1           | lunar tides                     | c       | ∞ mathematics                    |
|         | •                                   |                | planetary quakes                |         | morphological indexes            |
| moon    |                                     |                | selenology                      |         | shapes                           |
| DEF     | The natural satellite of the Earth. |                |                                 |         | vestibules                       |
| GS      | celestial bodies                    | moons          |                                 |         |                                  |
|         | . natural satellites                | USE            | natural satellites              |         | otropism                         |
| RT      | moon                                |                |                                 | USE     | isomorphism                      |
| IXI     | Earth-Moon system light sources     | mooring        |                                 | Morse   | code                             |
|         | lunar atmosphere                    | UF             | moorings                        |         | ∞ codes                          |
|         | lunar bases                         | RT             | airports                        | 1(1)    | communicating                    |
|         | lunar communication                 |                | anchors (fasteners)             |         | keying                           |
|         | lunar composition                   |                | autonomous docking docking      |         | radio telegraphy                 |
|         | lunar craters                       |                | fasteners                       |         | telecommunication                |
|         | lunar crust                         | ~              | o joining                       |         |                                  |
|         | lunar dust                          |                | materials handling              |         | potential                        |
|         | lunar eclipses                      |                | multiple docking adapters       | RT      | diatomic molecules               |
|         | lunar environment                   |                | spacecraft docking              |         | kinetic theory                   |
|         | lunar evolution                     |                |                                 |         | potential energy                 |
|         | lunar exploration lunar far side    | mooring        | IS                              | mortali | tv                               |
|         | lunar geology                       | USE            | mooring                         | RT      | aging (biology)                  |
|         | lunar gravitation                   |                |                                 |         | death                            |
|         | lunar landing sites                 |                | (propulsion systems)            |         | expiration                       |
|         | lunar limb                          | USE            | man operated propulsion systems |         | life span                        |
|         | lunar luminescence                  |                |                                 |         | Mills ratio                      |
|         | lunar magnetic fields               | moraine<br>USE |                                 |         |                                  |
|         | lunar maps                          | USE            | glacial drift                   |         | s (material)                     |
|         | lunar occultation                   | morale         |                                 | RT      | admixtures                       |
|         | lunar orbits                        | RT             | creativity                      |         | bricks                           |
|         | lunar phases                        | 101            | disciplining                    |         | cements                          |
|         | lunar photography                   |                | leadership                      |         | ceramics                         |
|         | lunar rays<br>lunar shadow          |                | motivation                      |         | concretes<br>grout               |
|         | lunar soil                          |                | productivity                    |         | masonry                          |
|         | lunar temperature                   |                | psychology                      |         | plasters                         |
|         | lunar topography                    |                | recreation                      |         | refractories                     |
|         | selenography                        |                |                                 |         |                                  |
|         | selenology                          |                | use comet                       |         | lapanese spacecraft)             |
|         | terraforming                        | GS             | celestial bodies                | USE     | Japanese spacecraft              |
|         |                                     |                | . comets                        |         |                                  |
| moon il |                                     | RT             | Morehouse comet solar system    |         | semiconductors)                  |
| GS      | psychological effects               | 101            | Solal System                    | USE     | metal oxide semiconductors       |
|         | . illusions                         | MORL           |                                 | mosaid  | ·s                               |
| RT      | optical illusion                    | USE            | manned orbital laboratories     | RT      | assemblies                       |
| 17.1    | sensory feedback                    |                |                                 |         | diffraction                      |
|         | consoly reconsum                    | morning        | g                               |         | focal plane devices              |
| moon-E  | arth trajectories                   | RT             | daytime                         |         | photographs                      |
| GS      | trajectories                        |                | sunrise                         |         |                                  |
|         | . spacecraft trajectories           |                |                                 | Mosco   |                                  |
|         | lunar trajectories                  | Morocc         |                                 | GS      | cities                           |
| БТ      | moon-Earth trajectories             | GS             | nations                         | DT      | Moscow                           |
| RT      | Apollo 5 flight                     | RT             | . Morocco                       | RT      | Russian Federation               |
|         | Apollo 6 flight                     | KI             | Africa                          |         | U.S.S.R.                         |
|         | Apollo 7 flight<br>Apollo 8 flight  | morphi         | 20                              | MOSFE   | =T                               |
|         | Apollo 10 flight                    | GS             | bases (chemical)                |         | field effect transistors         |
|         | Apollo 11 flight                    | 00             | . alkaloids                     | OOL     | neid effect transistors          |
|         | Apollo 12 flight                    |                | morphine                        | MOSS    | (space stations)                 |
|         | Apollo 13 flight                    |                | drugs                           |         | space stations                   |
|         | Apollo 14 flight                    |                | . narcotics                     |         |                                  |
|         | Apollo 15 flight                    |                | morphine                        | Mossba  | auer effect                      |
|         | Apollo 16 flight                    |                | nitrogen compounds              | RT      | crystal lattices                 |
|         | Apollo 17 flight                    |                | alkaloids                       | c       | ∞ effects                        |
|         | circumlunar trajectories            |                | . morphine                      |         | electromagnetic absorption       |
|         | Earth-Moon trajectories             |                | organic compounds               |         | fluorescence                     |
|         | Goddard Trajectory Determination    |                | . cyclic compounds              |         | gamma rays                       |
|         | System                              |                | heterocyclic compounds          |         | laser induced fluorescence       |
|         | lunar flight                        |                | alkaloids                       |         | resonance scattering             |

|               | resonant frequencies  |           | monocular vision visual perception   |                 | gyroscopic stability  |
|---------------|---|-----------|--|-----------------|---|
| mosses<br>USE | Bryophytes  | motion    | pictures   |                 | lateral stability longitudinal stability flow stability                         |
|               |   | UF        | cinefluorography   |                 | boundary layer stability  |
|               | rbital telescopes)  |           | cineradiography  |                 | flame stability   |
| USE           | manned orbital telescopes   | GS        | photographs  |                 | magnetohydrodynamic stability   |
| moths         |   | RT        | . motion pictures animation  |                 | Weibel instability  |
| GS            | animals   | IXI       | chronophotography  |                 | Goertler instability Taylor instability   |
|               | . invertebrates   |           | cinematography   |                 | low speed stability   |
|               | arthropods  |           | computer animation   |                 | rotary stability  |
|               | insects   |           | graphic arts   |                 | gyroscopic stability  |
|               | silkworms   |           | projectors<br>supplements  | DT              | spacecraft stability  |
| RT            | bollworms   |           | video equipment  | RT              | combustion stability coning motion  |
|               | infestation   |           | video tapes  |                 | control stability   |
| motility      |   |           |  |                 | dynamic tests   |
| USE           | locomotion  |           | sickness   |                 | roughness   |
|               |   |           | The syndrome of pallor, sweating, naudous vomiting which is induced by unusual |                 | sea keeping   |
| ∞ motion      |   |           | ation. Used for air sickness.  |                 | spacecraft motion stable oscillations   |
| SN            | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                  | UF        | air sickness   |                 | surface stability   |
|               | LISTED BELOW)   | GS        | sicknesses   |                 | •   |
| DEF           | The act, process or instance of change  | DT        | motion sickness  |                 |   |
|               | ion. Also called movement, especially sed in connection with problems involv- | RT        | acceleration stresses (physiology) aerospace medicine                          | motivat         |   |
|               | motion of one craft relative to another.                                      |           | dizziness  | GS              | motivation  |
|               | r movement.   |           | head movement  | DT .            | . contract incentives  odrives  |
| UF            | movement  |           | nausea   | KI »            | incentives  |
| GS            | motion  |           | space adaptation syndrome  |                 | learning  |
| RT            | . proper motion acceleration (physics)  |           | vomiting   |                 | morale  |
| IXI           | attitude (inclination)  | motion    | sickness drugs   |                 | reinforcement (psychology)  |
|               | Brownian movements  |           | drugs  | ~               | self stimulation<br>stimuli   |
|               | coning motion   |           | . motion sickness drugs  |                 | - Stifffull   |
|               | displacement  | RT        | pharmacology   |                 |   |
|               | domain wall<br>gliding  | motion    | simulation   | motor s         | kills   |
|               | gyration  | DEF       |  |                 | ed August 2004)   |
|               | harmonic motion   | tion of p | part of a motion to provide the sensation                                      | USE             | sensorimotor performance  |
|               | head movement   | of the n  |  |                 |   |
|               | heaving   | GS        | simulation   | motor s         | ystems (biology)  |
|               | high acceleration immobilization  | RT        | . motion simulation flight simulation  |                 | efferent nervous systems  |
|               | inertia   | 111       | flight simulators  |                 | ,   |
|               | ion motion  |           | motion simulators  |                 |   |
|               | ionic mobility  |           | virtual reality  |                 | /ehicles  |
|               | kinematics  | motion    | simulators   |                 | Automotive vehicles that do not run or<br>enerally having rubber tires.         |
|               | libration<br>librational motion   | GS        | simulators   | GS              | surface vehicles  |
|               | momentum  | 00        | . motion simulators  | 00              | . motor vehicles  |
|               | nutation  | RT        | computerized simulation  |                 | automated mixed traffic vehicles  |
|               | orbits  |           | control simulation   |                 | automobiles   |
|               | oscillations  |           | flight simulators motion simulation  |                 | electric automobiles electric motor vehicles                                    |
|               | oscillators particle motion   |           | space environment simulation   |                 | electric motor verifices  |
|               | particle trajectories   |           | test facilities  |                 | tractors  |
|               | pitch (inclination)   |           |  |                 | crawler tractors  |
|               | rotation  |           | stability  |                 | tracked vehicles  |
|               | Saccadic eye movements  | GS        | dynamic characteristics . dynamic stability                                    |                 | trucks  |
|               | solar orbits spacecraft motion  |           | motion stability   | RT              | tank trucks transportation  |
|               | spacecraft trajectories   |           | aerodynamic stability  |                 | ∘ vehicles  |
|               | stellar motions   |           | aircraft stability   |                 |   |
|               | swarming  |           | hovering stability attitude stability  |                 |   |
|               | teetering<br>transit time   |           | directional stability  | motors          |   |
|               | translational motion  |           | gyroscopic stability   | SN              | (LIMITED TO MACHINES SUPPLIED WITH<br>EXTERNAL ENERGY WHICH IS                  |
|               | tumbling motion   |           | lateral stability  |                 | CONVERTED INTO FORCE AND/OR   |
|               | turbulence  |           | longitudinal stability   |                 | MOTIONSEE ENGINES FOR MACHINES WITH SELF-CONTAINED POWER                        |
|               | velocity  |           | flow stability   | DEE             | SOURCES)  |
|               | vertical motion   |           | boundary layer stability flame stability                                       | DEF<br>ergy whi | Machines supplied with external en<br>ich is converted into force and/or motion |
|               | vertical motion simulators vibration  |           | magnetohydrodynamic stability  | GS              | motors  |
|               | viscosity   |           | Weibel instability   |                 | . electric motors   |
|               | yaw   |           | Goertler instability   |                 | asynchronous motors   |
| pa = #! - ·   | oftereffeets  |           | Taylor instability   |                 | induction motors micromotors  |
| motion<br>RT  | aftereffects equations of motion  |           | low speed stability rotary stability   |                 | piezoelectric motors  |
| N.I           | kinetics  |           | gyroscopic stability   |                 | stepping motors   |
|               | momentum  |           | spacecraft stability   |                 | synchronous motors  |
| _             |   |           | stability  |                 | torque motors   |
|               | equations   |           | . dynamic stability  | DT              | . servomotors   |
| USE           | equations of motion   |           | motion stability aerodynamic stability   | RT              | apogee boost motors  electric equipment   |
| motion        | perception  |           | aircraft stability   |                 | energy conversion efficiency  |
| GS            | perception  |           | hovering stability   |                 | engines   |
|               | motion perception   |           | attitude stability   | 00              | o generators  |
| RT            | binocular vision  |           | directional stability  |                 | hydraulic equipment   |

mountain inhabitants stators Doppler processing is one method of implemen-SIS (semiconductors) tation. Used for MTI indicators. MOTS (tracking system) MTI radar MSRE reactors USE minitrack system GS radar USE molten salt nuclear reactors . moving target indicators mountain inhabitants cancellation circuits RT MSS (International Space Station) GS communities coherent radar (added September 2001) inhabitants Doppler radar Space Station Mobile Servicing . mountain inhabitants over-the-horizon radar System altitude acclimatization radar cross sections high altitude environments radar tracking **MTBF** low temperature environments target acquisition The mean of the distribution of time (or DEF cycles, miles, events) between successive failmountains Mozambique ure. MTBF is often estimated by dividing the GS landforms total operating time for like items by the total number of failures encountered. Used for mean GS nations . mountains Mozambique . . Adirondack Mountains (NY) RT Africa time bwtween failures. . . Alps Mountains (Europe) mean time between failures . . Andes Mountains (South America) MPD thrusters GS time . . Appalachian Mountains (North (added April 2001) MTBF America) USE magnetoplasmadynamic thrusters RT downtime . . Bighorn Mountains (MT-WY) failure analysis Black Hills (SD-WY) MPLM (International Space Station) failure modes Carpathian Mountains (Europe) (added April 2005) life (durability) Cascade Range (CA-OR-WA) USE Multi-Purpose Logistics Modules rates (per time) Caucasus Mountains (U.S.S.R.) reliability . . coastal ranges (CA) statistical analysis MPP (computers) Great Smoky Mountains (NC-TN) USE massively parallel processors Himalayas MTF Peninsular Ranges (CA) MR-3 flight USE modulation transfer function Pyrenees Mountains (Europe) USE Mercury MR-3 flight Rocky Mountains (North America) San Juan Mountains (CO) MTFF (space station) USE man tended free flyers Sierra Nevada Mountains (CA) MRAC (systems) Wind River Range (WY) model reference adaptive control USE . . Wrangell Mountains (AK) Central Piedmont (US) MTI radar USE moving target indicators MRCA aircraft cirques (landforms) UF multi-role combat aircraft cones (volcanoes) MTPF Tornado aircraft RT ∞ aircraft continents USE Mission to Planet Earth divides (landforms) attack aircraft formations fighter aircraft MUBIS (scanners) gaps (geology) ∞ military aircraft USE multiple beam interval scanners geomorphology highlands Mrkos comet mucoceles Mars volcanoes celestial bodies GS GS cysts massifs . comets mucoceles mesas . Mrkos comet RT ∞ blisters orography RT solar system ∞ peaks mucus peaks (landforms) body fluids **MSAT** piedmonts A joint Canada/United States mobile . mucus Pike's Peak (CO) satellite system which is being developed with a RT saliva ∞ ridges voice and data communication link between terraces (landforms) mobile units and the switched telephone netmud volcanoes work or between mobile units and other mobile GS sediments volcanology units via satellite. Each country will have a . mud watersheds satellite capable of mutual backup. Launch date soils is planned for 1994. . mud mounting artificial satellites GS RT alluvium GS mounting . communication satellites clays . rigid mounting . MSAT fans (landforms) assembling ground stations RT grout ∞ attachment land mobile satellite service ocean bottom brackets maritime satellites rain erosion ∞ joining mobile communication systems sludge suspending (hanging) radio communication tidal flats radio relay systems satellite transmission mufflers USE supports RT acoustic retrofitting **MSBLS** aircraft noise mouth USF microwave scanning beam landing attenuators GS anatomy system **baffles** . digestive system . . mouth damping . . lips (anatomy) MSM (semiconductors) diffusers . face (anatomy) DEF Semiconductor devices consisting of a exhaust systems . . mouth semiconductor layer sandwiched between two furnaces . . lips (anatomy) layers of metal. Used for metal-semiconductorjet aircraft noise salivary glands noise (sound) metal semiconductors. noise reduction

teeth tonque

movement

USE motion

622

# moving target indicators

DEF Radar devices that employ a technique that enhances the detection and display of moving radar targets by supressing fixed targets.

metal-semiconductor-metal semiconductors

electronic equipment . solid state devices

. . semiconductor devices

. MSM (semiconductors)

MIM diodes photodiodes Schottky diodes

semiconductor junctions

mulberry (alloy) GS alloys

. mulberry (alloy) RT antimony alloys

propeller noise

silencers

suppressors

rocket engine noise

molybdenum alloys

mullites

RT aluminum silicates minerals

Multi-angle Imaging Spectroradiometer (added May 2007)
USE MISR (radiometry)

#### multi-anode microchannel arrays

DEF A family of photoelectric, photon counting array detectors being developed for use in instruments on both ground based and spaceborne telescopes.

GS arrays

#### multi-anode microchannel arrays

RT anodes microchannels radiation detectors spaceborne telescopes telescopes x ray detectors

#### multibeam antennas

Antennas that have the ability to form more than one beam from a single radiating aperture.

antennas GS

#### multibeam antennas

beams (radiation) lens antennas microwave antennas reflector antennas satellite antennas satellite communication

#### multiblock grids

(added May 1995) UF multiple blocked grids

GS coordinates

. computational grids

. . structured grids (mathematics)

.. multiblock grids

RT computational fluid dynamics

#### multichannel communication

telecommunication GS

# . multichannel communication

code division multiple access interference factor table multiple access radio transmitters teleconferencing time division multiple access

multichannel plates

USE microchannel plates

multicharged ions ions USE

# multidisciplinary design optimization

(added January 1995)
DEF Methodology for the design of complex engineering systems and subsystems in which the synergistic effects of coupling between various interacting disciplines and phenomena are analyzed and exploited at every stage of the design process.

optimization

#### multidisciplinary design optimization

aircraft design architecture (computers) computer aided design design analysis genetic algorithms systems engineering Taguchi methods

## multidisciplinary research

(added January 1995) DEF Research by combining several (academic) disciplines or methods.

GS research

# . multidisciplinary research

concurrent engineering management methods operations research

project management research management

#### multiengine vehicles

RT ∞ aircraft B-1 aircraft launch vehicles light transport aircraft missile configurations missiles multistage rocket vehicles recoverable launch vehicles rocket vehicles ∞ vehicles

#### multigrid methods

(added September 1989)

DEF A numerical technique which attempts to accelerate the convergence of an iterative process by computing corrections to the solution on coarser meshes and propagating these changes to the fine mesh through interpolation.

GS analysis (mathematics)

. numerical analysis

. . approximation

#### ... multigrid methods

computational fluid dynamics computational grids finite difference theory finite element method grid generation (mathematics) iteration iterative solution ∞ methodology unstructured grids (mathematics)

# multilayer insulation

GS insulation

multilayer insulation

interlayers

# multilayer insulation

composite materials

cryogenic fluid storage fabrics

∞ foils

foils (materials)

laminates

∞ layers metal foils

ply orientation

sandwich structures

multilayer structures USE laminates

multiloop systems

USE cascade control

#### multimedia

(added March 1993)

hypermedia

interactive multimedia

intermedia

audio visual equipment

audio visual material

computer graphics electronic publishing

graphic arts

imaging techniques

information systems teleconferencing

training devices video communication

video data

video tape recorders

video tapes

visual aids

voice communication

# multimission modular spacecraft

DEF Future spacecraft to be operated in conjunction with the Space Shuttle orbiter vehicle and serviced by its module exchange mechanism. Used for MMS.

UF MMS

BESS (satellite) RT

Landsat follow-on missions satellite networks

Solar Maximum Mission

#### multimode resonators

resonators

. multimode resonators

cavity resonators magnetrons propagation modes

#### multipactor discharges

electric current

. electric discharges

. multipactor discharges

linear accelerators photomultiplier tubes secondary emission spark gaps

#### multipath transmission

DEF The process, or condition, in which radiation travels between source and receiver via more than one path. Since there can be only one direct path, some process of reflection, refraction or scattering must be involved.

GS transmission

. electromagnetic wave transmission

. . radio transmission

... multipath transmission

. signal transmission

. . radio transmission

. . multipath transmission

cepstral analysis diffraction paths Fermat principle multistatic radar optical paths

∞ paths radio waves Rayleigh fading sound transmission wave propagation

## multiphase flow

mixed flow UF

GS fluid flow

multiphase flow

. . two phase flow conical flow critical flow

Crocco-Lee theory

flow distortion flow measurement

gas flow laminar flow liquid flow

mass flow orifice flow pipe flow

pressure gradients single-phase flow

solids flow steady flow steam flow subcritical flow

supercritical flow turbulent flow uniform flow unsteady flow

# multiphoton absorption

Ionization and dissociation of a molecule under the action of powerful laser radiation. Laser-flux dependent light intensities emitted by different excited states of the molecule indicate the various absorption processes.

GS energy absorption

. radiation absorption

. . electromagnetic absorption

multiphoton absorption

RT ∞ absorption

photon absorptiometry

## multiple access

DEF The allocation of communication system resources (output) among multiple users by means of power, bandwidth, and power assignment singly or in combination.

GS telecommunication

multiple access

. . Aloha system

. . carrier sense multiple access . . code division multiple access

. . demand assignment multiple access

. . frequency division multiple access

. time division multiple access transmission

. signal transmission

. . data transmission

... multiple access

. . . . Aloha system

carrier sense multiple access . . . . code division multiple access

. . . demand assignment multiple access

. . . . frequency division multiple access

. . . time division multiple access

access control

frequency division multiplexing multichannel communication packet switching

pulse communication wideband communication

multiple beam interval scanners

MUBIS (scanners)

GS antennas

multiple beam interval scanners

linear arrays radar scanning

multiple blocked grids USE multiblock grids

multiple docking adapters

MDA GS adapters

multiple docking adapters

RT airlock modules docking

mooring

orbital rendezvous Saturn 1 workshop

Saturn 5 workshop Saturn workshops

Skylab 1 Skylab 2

Skylab 3

Skvlab 4

spacecraft docking

multiple frequency radar USE multispectral radar

multiple input multiple output USE MIMO (control systems)

multiple instruction multiple data stream USE MIMD (computers)

multiple output programs
GS computer programs

multiple output programs

multiprogramming readout time sharing

multiple target tracking

(added August 1991)

DEF The process of following movements of several targets simultaneously.

tracking (position)

. multiple target tracking optical tracking radar targets radar tracking target acquisition target recognition targets tracking filters

tracking problem

multiple target trajectory systems USE MATTS (systems)

multiplets

USE fine structure

multiplex transmission USE multiplexing

multiplexers

USE multiplexing

multiplexing

DEF The simultaneous transmission of two or more signals within a single channel. The three basic methods of multiplexing involve the separation of signals by time division, frequency division, and phase division. Used for multiplex transmission and multiplexers.

multiplex transmission multiplexers

transmission

. multiplexing

. . code division multiplexing

. . frequency division multiplexing . . time division multiplexing

. . wavelength division multiplexing access control

carrier frequencies

code division multiple access

data transmission demultiplexing

frequency division multiple access

pulse communication radio transmission satellite transmission signal transmission

multiplication

GŚ number theory . multiplication arithmetic computation

multiplier phototubes

USE photomultiplier tubes

fringe multiplication

multipliers

DEF Devices which have two or more inputs and whose output is a representation of the product of the quantities represented by the input signals.

GS multipliers

channel multipliers Lagrange multipliers logic circuits photomultiplier tubes

multipolar fields

continuum mechanics field theory (physics) gravitational fields magnetic fields multipoles

multipoles

RT monopoles multipolar fields

multiprocessing (computers)

data processing

multiprocessing (computers)

associative processing (computers)

computers concurrent processing Connection Machine

data processing equipment distributed memory

hypercube multiprocessors interprocessor communication

multiprogramming parallel programming pipelining (computers) real time operation supercomputers time sharing

vector processing (computers)

multiprogramming

multitasking (computers)

GS computer programming

multiprogramming

machine-independent programs multiple output programs multiprocessing (computers) pipelining (computers) ∞ programming

time sharing

multipropellants USE rocket propellants

**Multi-Purpose Logistics Modules** 

(added March 2005)

DEF Pressurized logistics modules built by the Italian Space Agency ASI for NASA to transport systems and experiment racks, and resupply/stowage items to and from the International Space Station (ISS) in the cargo bay of the Space Shuttle. Also known as MPLM.

Donatello Logistics Module (ISS)
Leonardo Logistics Module (ISS)
MPLM (International Space Station)
Raffaello Logistics Module (ISS)

modules

. service modules

. . Multi-Purpose Logistics Modules

. space station modules . . Multi-Purpose Logistics Modules spacecraft components

. service modules

. Multi-Purpose Logistics Modules

cargo International Space Station payload delivery (STS) Space Shuttle payloads

spaceborne experiments spacecraft docking modules

multiradar tracking USE radar networks

multi-role combat aircraft USE MRCA aircraft

multiscale models

(added November 2002)

Models or simulations that effectively address phenomena across significantly different scales.

GS models

. multiscale models computerized simulation mathematical models scale effect

multisensor applications

scale models

multisensor applications

. multisensor fusion enhanced vision image processing imaging techniques intercalibration pattern recognition remote sensing remote sensors

multisensor fusion

(added October 1994)

DEF A combination of data or images from more than one sensor source (or from multispectral sensors) for display as a single image.

data fusion sensor fusion

multisensor applications

. multisensor fusion

data integration fuzzy systems imaging techniques remote sensing robotics signal processing

terrain analysis

#### multispectral band cameras

GS optical equipment

. cameras

. multispectral band cameras

photographic equipment

. cameras

. multispectral band cameras

infrared photography photography

#### multispectral band scanners

optical equipment

optical scanners

multispectral band scanners

... thematic mappers (LANDSAT) scanners

. optical scanners

.. multispectral band scanners

... thematic mappers (LANDSAT)

RT band ratioing

change detection

Coastal Zone Color Scanner

Earth observations (from space)

imaging techniques infrared scanners

ocean color scanner

panoramic scanning photography

radiometric correction radiometric resolution

scanning

spaceborne photography spectral reconnaissance

vegetative index

# multispectral linear arrays

DEF Large number of interconnected solid state detectors in a pushbroom mode wherein the forward motion of the vehicle (spacecraft) sweeps the assembly of detectors which are oriented perpendicular to the ground track. Used for MLA.

MLA GS arrays

. antenna arrays

. . linear arrays

. . multispectral linear arrays

electronic equipment

. solid state devices

. multispectral linear arrays

spacecraft instruments

. satellite instruments

. multispectral linear arrays

RT ∞ detectors

∞ sensors

#### multispectral photography

imagery

. photography

#### multispectral photography

. . . infrared photography

. . . . color infrared photography

. radar photography

change detection

crop identification

Earth observations (from space)

I2S cameras

image resolution

imaging techniques

spectral reconnaissance

### multispectral radar

dual frequency radar multiple frequency radar

GS radar

#### multispectral radar

RT imagery

imaging techniques

spectral reconnaissance

#### Multispectral Resource Sampler

An experimental remote sensing instrument for satellites to measure both intensity and polarization at several wavelengths. The first one was launched in the late 1980s.

artificial satellites GS

. Multispectral Resource Sampler

RT remote sensing

#### multispectral tracking telescopes

GS telescopes

. spectroscopic telescopes . . multispectral tracking

#### telescopes

RT optical measuring instruments optical tracking tracking (position)

multistage compressors

USE turbocompressors

#### multistage rocket vehicles

Vehicles having two or more rocket units, each unit firing after the one in back of it has exhausted its propellant. Normally, each unit, or stage, is jettisoned after completing its firing. GS

rocket vehicles

# multistage rocket vehicles Ablestar launch vehicle Antares rocket vehicle

. Argo rocket vehicles
. Astrobee rocket vehicles

. Astrobee 1500 rocket vehicle

Athena rocket vehicle

. . Atlas launch vehicles . . . Atlas Able 5 launch vehicle

Atlas Agena B launch vehicle

Atlas Agena launch vehicles

Atlas Centaur launch vehicle

Atlas SLV-3 launch vehicle Berenice rocket vehicle

Black Knight rocket vehicle

Blue Scout rocket vehicle

Diamant launch vehicle

Eldo launch vehicle

EXOS sounding rocket

. . Jaguar rocket vehicle

. . Javelin rocket vehicle . . Juno launch vehicles

... Juno 1 launch vehicle

. . . Juno 2 launch vehicle Jupiter C rocket vehicle

. . Kappa rocket vehicles

Kappa 8 rocket vehicle

Kappa 9 rocket vehicle

Lambda rocket vehicles Little Joe 2 launch vehicle

. . Nike rocket vehicles

... Nike-Apache rocket vehicle

Nike-Cajun rocket vehicle Nike-Hydac rocket vehicle

Nike-Iroquois rocket vehicle

Nike-Javelin rocket vehicle

Nike-Tomahawk rocket vehicle

. . Nova launch vehicles

Pegasus air-launched booster Phoenix sounding rocket RAM B launch vehicle

Rubis rocket vehicle

Saturn launch vehicles

Saturn 1 launch vehicles

Saturn 1 SA-1 launch vehicle Saturn 1 SA-10 launch vehicle

Saturn 1 SA-2 launch vehicle

Saturn 1 SA-3 launch vehicle

Saturn 1 SA-4 launch vehicle Saturn 1 SA-5 launch vehicle

Saturn 1 SA-6 launch vehicle

Saturn 1 SA-7 launch vehicle

Saturn 1 SA-8 launch vehicle

Saturn 1 SA-9 launch vehicle

Saturn 1B launch vehicles

Saturn 2 launch vehicles . . . Saturn 5 launch vehicles

Saturn D launch vehicle

Scout launch vehicle Skylark rocket vehicle

. . Thor launch vehicles

Thor Able rocket vehicle

... Thor Agena launch vehicle Thor Delta launch vehicle

. . Titan launch vehicles

... Titan 3 launch vehicle ... Titan 4 launch vehicle

. . Titan 4B launch vehicle

. . Ares 1 launch vehicle

. . vanguard 2 launch vehicle

. . Vega launch vehicle

. . WASP sounding rocket

. . . Ares 1 first stage

. . . Ares 1 upper stage

. Ares 5 cargo launch vehicle

air launching

expendable stages (spacecraft)

interim stages (spacecraft) launch vehicles

Minuteman ICBM multiengine vehicles Navaho missile

payload mass ratio Pershing missile piggyback systems

polaris missiles propulsive efficiency

rocket engines SS-11 missile

stage separation
Sunblazer space probe
Talos missile terrier missile Titan ICBM

Trailblazer 1 reentry vehicle Trailblazer 2 reentry vehicle upper stage rocket engines

∞ vehicles

# multistatic radar

DEF System in which successive lobes of the antenna are sequentially engaged to provide a tracking capability without physical movement of the antenna. Used for bistatic radar.

bistatic radar

radar

. Doppler radar

. . multistatic radar

. surveillance radar . multistatic radar RT multipath transmission

pulse radar radar detection target recognition

multitasking (computers)

USE multiprogramming

multitemporal analysis USE temporal resolution

multivariable control

(added July 1991)

RT ∞ control control theory

feedback control

linear parameter-varying control optimal control

multivariate statistical analysis GS statistical analysis

. variance (statistics) multivariate statistical analysis

. . . bivariate analysis ... covariance

. . . orthogonality

. . . regression analysis ... regression coefficients

RT ∞ analyzing correlation

discriminant analysis (statistics)

∞ variance

multivibrators DEF Two-stage regenerative circuits with two possible states and an abrupt transition characteristic.

GS circuits

. multivibrators . . flip-flops

. monostable multivibrators amplifiers

bistable circuits logic circuits oscillators

positive feedback switching circuits

625

trigger circuits basic unit of skeletal muscle tissue. They consist  $\infty$  strength of a soft contractile substance enclosed in a muon spin rotation muscular tonus tubular sheath. DEF Particle spin depolarization caused by skeletal myocytes tonus sensitivity of muon spin to the presence of GS cells (biology) GS muscular tonus defects in certain metals. . muscle cells . hypotonia GS gyration . . muscle fibers exercise physiology . rotation muscles muscles . muon spin rotation musculoskeletal system charged particles musculoskeletal system myosins hyperfine structure skeleton skeletal muscle GS anatomy muons particle diffusion . musculoskeletal system muscle relaxants . . bones particle spin drugs precession . muscle relaxants . . . femur ... pelvis muonium muscles ... scapula RT electrons GS anatomy . . . skull . musculoskeletal system mesons . . . . cranium .... intracranial cavity . . muscles muons . . . constrictors ... mastoids particles diaphragm (anatomy) ... spine . elementary particles . . . flexors . . . . vertebrae . . bosons . . . myocardium . . . sternum . . . mesons . . . skeletal muscle . . . tibia . . . smooth muscle . muons . . . ulna . . fermions . . tendons . . joints (anatomy) . . . leptons aldolase elbow (anatomy) RT .... muons . . . knee (anatomy) ataxia . . hadrons congeners . . . wrist . . . mesons . . muscles convulsions . . . . muons electrocardiography constrictors . nuclear particles fibrillation diaphragm (anatomy) . . bosons glucocorticoids . . . flexors . . . mesons . . . myocardium heart . . . muons hypodynamia skeletal muscle baryons . . . smooth muscle muscle cells charged particles . . . tendons muscle fibers electron decay rate muscular fatigue . cartilage RT connective tissue muon spin rotation muscular strength muscular tonus exoskeletons Murchison meteorite myoelectric potentials hypokinesia GS celestial bodies myoelectricity intervertebral disks . meteorites myoglobin muscle cells . . stony meteorites myosins muscle fibers . . . carbonaceous meteorites muscular fatigue spasms . . . . carbonaceous chondrites twitching muscular strength . Murchison meteorite sciatic region . . . chondrites muscovite striation .... carbonaceous chondrites DEF An important mineral of the mica ∞ systems . . . . . Murchison meteorite aluminum compounds museums Murray meteorite . muscovite RT anthropology GS celestial bodies chalcogenides artifacts . meteorites . oxides buildings . . stony meteorites . . silicon oxides collection . . . carbonaceous meteorites . muscovite histories . . . . carbonaceous chondrites minerals libraries . Murray meteorite . mica . . . chondrites mushy zones . muscovite . . . . carbonaceous chondrites Regions of liquid plus solid phases in silicon compounds alloys that solidify over a range of temperatures. . . . . . Murray meteorite . silicon oxides Used for liquid plus solid zones. . . muscovite muscle cells liquid plus solid zones (added December 2004) muscular fatigue casting Mature contractile cells, commonly GS fatigue (biology) cooling known as myocytes, that form one of three kinds . muscular fatigue metallography of muscle. The three types of muscle cells are phase transformations muscles skeletal (muscle fibers), cardiac, and smooth. solidification musculoskeletal system They are derived from embryonic (precursor) stress (physiology) muscle cells called myoblasts. music myocytes muscular function RT arts GS cells (biology) muscle contraction octaves . muscle cells GS muscular function . muscle fibers . spasms muskegs muscles cramps GS landforms muscular function ∞ functions muskegs musculoskeletal system Arctic regions hypodynamia myoelectricity hypokinesia marshlands hypotonia myosins soils smooth muscle mechanograms topography muscle cells water muscle contraction myosins (added August 2004) smooth muscle Mustang aircraft
USE **P-51** aircraft USE muscular function twitching muscle fibers muscular strength mutagenesis (added June 2000) (added August 2004) muscles Large, multinucleate single cells, either

musculoskeletal system

skeletal muscle

Induction or development of a genetic

mutation via a natural environmental mutagen or

cylindrical or prismatic in shape, that form the

through the methods of genetic engineering. sheath is formed by the cell membranes of glial . . myoglobin deoxyribonucleic acid cells ( schwann cells in the peripheral and organic compounds gene expression oligodendroglia in the central nervous system). . proteins genes GS anatomy . . myoglobin mutagens . nervous system muscles . . nerves mutations pigments radiation effects ... myelin sheath myopia axons RT vision mutagens bioelectricity Agents that raise the frequency of mu-DEF electrophysiology myosins tations above the spontaneous rate. myelin (added August 2004) air pollution nerve fibers DEF A diverse superfamily of proteins that biochemistry function as translocating proteins. They share biological evolution Mylar (trademark) the common characterstics of being able to bind cells (biology) polymeric films actins and hydrolyse MgATP. Myosins generally chemical analysis Mylar (trademark) consist of heavy chains which are involved in genetics polyethylene terephthalate locomotion, and light chains which are involved mutagenesis in regulation. mutations GS biopolymers myocardial infarction . proteins mutations GS diseases . . myosins biological diversity . heart diseases organic compounds . . infarction biological evolution . proteins cells (biology) ... myocardial infarction myosins chromosome aberrations arteriosclerosis adenosine triphosphate chromosomes blood coagulation adenosinetriphosphatase genes coronary artery disease muscle cells genetics hypertension muscle fibers mitosis necrosis muscles mutagenesis thrombosis muscular function mutagens nucleogenesis myocardium Mystere 20 aircraft oncogenes GS anatomy Dassault Mystere 20 aircraft
Dassault aircraft
. Mystere 20 aircraft . circulatory system radiation hazards . . cardiovascular system MX missile ... heart jet aircraft United States strategic intercontinental . . . . myocardium . turbofan aircraft ballistic missile. . musculoskeletal system Mystere 20 aircraft Peacekeeper missile . . muscles light aircraft GS missiles . . myocardium . Mystere 20 aircraft . ballistic missiles angina pectoris monoplanes . . intercontinental ballistic missiles heart conduction system . Mystere 20 aircraft ... MX missile passenger aircraft . surface to surface missiles myocytes Mystere 20 aircraft . . intercontinental ballistic missiles (added December 2004) transport aircraft .. MX missile muscle cells . Mystere 20 aircraft missile silos myoelectric potentials Mystere 50 aircraft myelin GS myoelectricity DEF A tri-engine business jet aircraft (Das-. myoelectric potentials fats sault). Used for Dassault Mystere 50 aircraft. muscles Dassault Mystere 50 aircraft myelin sheath ∞ potential Dassault aircraft nerves Mystere 50 aircraft nervous system myoelectricity jet aircraft neurons myoelectricity Mystere 50 aircraft . myoelectric potentials passenger aircraft myelin sheath electromyography Mystere 50 aircraft (added August 2004) muscle cells transport aircraft DEF The lipid-rich sheath surrounding axmuscles . Mystere 50 aircraft ons in both the central and peripheral nervous RT ∞ aircraft myoglobin turbofan engines

systems. The myelin sheath is an electrical insulator and allows faster and more energetically efficient conduction of impulses. The

biopolymers . proteins

| N electrone  | CNC matacritae                                    | DEE A mathed for determining various me          |
|--|---|--|
| N electrons  | SNC meteorites                                    | DEF A method for determining various me-         |
| GS particles                                       | NAMO aircraft                                     | chanical properties of materials on a very small |
| . charged particles                                | NAMC aircraft                                     | scale by observing an indentation made with a    |
| energetic particles                                | USE Nihon aircraft                                | nanoscale diamond probe at a selected rate and   |
| electrons  | Nemikie   | load. Force-displacement curves derived from     |
| N electrons  | Namibia   | the indentation reflect a material's response to |
| . corpuscular radiation                            | UF South West Africa                              | deformation, from which properties such as       |
| energetic particles                                | RT Africa   | hardness and modulus of elasticity can be de-    |
| electrons  | nations   | termined.  |
| N electrons  | Republic of South Africa                          | GS indentation                                   |
| . elementary particles                             |   | . nanoindentation                                |
| fermions   | naming  | RT atomic force microscopy                       |
| leptons  | GS naming   | hardness tests                                   |
| electrons  | . norms   | Knoop hardness                                   |
| N electrons  | RT nomenclatures                                  | ∞ materials tests                                |
| RT beta particles                                  | specifications                                    | mechanical properties                            |
|  | standardization                                   | microhardness                                    |
| N-156 aircraft                                     |   | modulus of elasticity                            |
| USE F-5 aircraft                                   | nanoclusters                                      | nanotechnology                                   |
|  | (added December 2006)                             | 0,   |
| NA-300 aircraft                                    | DEF Groups of well-ordered, uniform nano-         | nananartialaa                                    |
| USE OV-10 aircraft                                 | particles arranged in technologically useful      | nanoparticles                                    |
|  | shapes, often displaying optical, electronic, and | (added March 2002)                               |
| nacelle wing configurations                        | chemical properties of interest.                  | DEF Ultra fine particles with dimensions in      |
| (added August 1998)                                | GS nanostructures (devices)                       | the range of 1 to 100 nanometers.                |
| USE wing nacelle configurations                    | . nanoclusters                                    | GS particles                                     |
| s s  | RT metal clusters                                 | nanoparticles                                    |
| nacelles   | molecular clusters                                | RT fullerenes                                    |
| RT aerodynamic configurations                      | nanocrystals                                      | nanocrystals                                     |
| air intakes  | nanofabrication                                   | nanostructure (characteristics)                  |
| airframes  | nanotechnology                                    | nanostructure growth                             |
|  | nanotechnology                                    | nanotechnology                                   |
| cowlings   |   | nanotubes  |
| ducted bodies                                      | nanocomposites                                    | thin films                                       |
| engine inlets                                      | (added December 2000)                             |  |
| external store separation                          | GS composite materials                            |  |
| external stores                                    | . nanocomposites                                  | nanorods   |
| external tanks                                     | RT aluminum oxides                                | (added December 2006)                            |
| fairings   | ceramic matrix composites                         | DEF Elongated nanoscale objects that may         |
| housings   | grain size  | be synthesized from metals or semiconducting     |
| nose inlets  | nanocrystals                                      | materials, each of their dimensions ranging from |
| perforated shells                                  | nanostructure (characteristics)                   | 1-100 nm.  |
| pods (external stores)                             | particulate reinforced composites                 | GS nanostructures (devices)                      |
| protuberances                                      |   | . nanorods                                       |
|  | polymer matrix composites                         | RT nanocrystals                                  |
| shells (structural forms)                          | silicon carbides                                  | ,  |
| wing-fuselage stores                               | silicon nitrides                                  | nanofabrication                                  |
|  |   | nanotechnology                                   |
| Naiad  | nanocrystalline materials                         | nanotubes  |
| (added January 1996)                               | (added October 1997)                              | nanowires  |
| DEF A natural satellite of Neptune orbiting        | USE nanocrystals                                  |  |
| at a mean distance of 48,000 kilometers.           | •   | nanosatellites                                   |
| GS celestial bodies                                | nanocrystalline structure                         | (added October 1998)                             |
| . natural satellites                               | (added October 1997)                              | DEF Satellites with a total mass smaller         |
| Neptune satellites                                 | USE nanostructure (characteristics)               | than 10 kg incorporating miniaturized electronic |
| Naiad  | ,   |  |
| RT Neptune (planet)                                | nanocrystals                                      | and mechanical systems.                          |
| Tri Troptano (pianot)                              | (added October 1997)                              | UF nanosats                                      |
| naked singularities                                | UF nanocrystalline materials                      | GS artificial satellites                         |
|  | ,   | nanosatellites                                   |
| • '  | •   | RT microelectromechanical systems                |
| visible and communicable to the outside world,     | . nanocrystals                                    | microminiaturization                             |
| i.e., singularities that are not shielded by an    | RT crystal structure                              | microminiaturized electronic devices             |
| event horizon from infinity.                       | grain size  | microsatellites                                  |
| GS analysis (mathematics)                          | microcrystals                                     | satellite constellations                         |
| . complex variables                                | nanoclusters                                      | satellite design                                 |
| singularity (mathematics)                          | nanocomposites                                    | small satellite technology                       |
| naked singularities                                | nanoparticles                                     | small scientific satellites                      |
| RT astrophysics                                    | nanorods  |  |
| black holes (astronomy)                            | nanostructure (characteristics)                   |  |
| cosmology  | ,   | nanosats   |
| degenerate matter                                  | nanofabrication                                   | (added October 1998)                             |
| event horizon                                      | (added January 2002)                              | USE nanosatellites                               |
| gravitational collapse                             | DEF Process of, and techniques for, creat-        |  |
| points (mathematics)                               | ing nanoscale structures and devices.             | nanostructure (characteristics)                  |
|  |   |  |
| relativity   | UF nanostructure fabrication                      | (added October 1997)                             |
| space-time functions                               | GS fabrication                                    | UF nanocrystalline structure                     |
| theoretical physics                                | nanofabrication                                   | GS microstructure                                |
| white holes (astronomy)                            | RT atomic force microscopy                        | nanostructure (characteristics)                  |
|  | electron beams                                    | RT carbon nanotubes                              |
| nakhlites  | lithography                                       | ∞ characteristics                                |
| (added August 1991)                                | nanoclusters                                      | crystal structure                                |
| DEF Achondritic stony meteorites consist-          | nanorods  | dendrimers                                       |
| ing of a holocrystalline aggregate of diopside (75 | nanostructures (devices)                          | grain size                                       |
| percent) and olivine.                              | nanotechnology                                    | micelles   |
| GS celestial bodies                                | nanowires   |  |
|  |   | nanocomposites                                   |
| . meteorites                                       | quantum electronics                               | nanocrystals                                     |
| stony meteorites                                   | scanning tunneling microscopy                     | nanoparticles                                    |
| achondrites  | self assembly                                     | nanostructure growth                             |
| nakhlites  |   | nanotechnology                                   |
| RT chassignites                                    | nanoindentation                                   | nanotubes  |
| shergottites                                       | (added October 2001)                              | self assembly                                    |
| <del>-</del>                                       | •   | •  |

semiconductors (materials) nanostructure growth broadband frequencies nanotechnology nanostructure fabrication (added January 2002) NASA Communication Network USE nanofabrication USE NASCOM network nanotubules (added June 2000) nanostructure growth NASA End-to-End Data System USE nanotubes USE needs (data system) (added September 2001) DEF The progressive formation of nano-scale material structures by various means innanowires **NASA Interactive Planning System** (added March 2005) NIPS (system) cluding catalytic formation, laser ablation, Wire structures with thickness meacomputer programs chemical vapor deposition, and plasma deposisured in nanometers (below 1 micron or 1 x Earth resources 10(exp -6) meters in thickness). management methods GS growth nanostructures (devices) NASA programs project planning nanostructure growth . nanowires RT crystal growth . . quantum wires resource allocation fullerenes nanofabrication resources management laser ablation nanorods laser deposition nanostructure growth ∞ systems nanoparticles nanotechnology NASA programs nanostructure (characteristics) quantum electronics GS programs nanostructures (devices) . NASA programs nanotechnology naphthalene nanotubes GS organic compounds . . Assess program . . ATLIT project nanowires . cyclic compounds . . cyclic hydrocarbons vapor deposition . . DAST program ... naphthalene nanostructures (devices) . hydrocarbons . . NASA space programs (added October 1997) ... Apollo applications program . . cyclic hydrocarbons nanostructures (devices) . . . naphthalene . . . Apollo project ... Bioastronautical Orbital Space . nanotubes . quantum dots System naphthenes Centaur project . . carbon nanotubes GS organic compounds . cyclic compounds ... Earth & Ocean Physics . nanowires . . cyclic hydrocarbons Applications Program . . quantum wires . nanoclusters naphthenes ... Earth Resources Program . nanorods . hydrocarbons .... Earth Resources Survey . . cyclic hydrocarbons Program RT adatoms . SEASAT program ∞ devices . . . naphthenes . . . Echo project nanofabrication nanostructure growth nap-of-the-earth navigation Galileo project Low altitude flight of helicopters during Gemini project nanotechnology night or day utilizing electronic means for detec-Helios Project quantum electronics tion and recognition of landmarks and targets. Jupiter project semiconductor devices Used for NOE navigation. Magellan project (NASA) nanotechnology NOE navigation Mariner program . Mariner Venus-Mercury 1973 (added June 2000) GS navigation . air navigation
. . nap-of-the-earth navigation The creation of functional materials, Mariner-Mercury 1973 devices, and systems through control of matter Mars 69 project on the nanometer-length scale; exploitation of novel phenomena and properties at the nanom-. terrain following Mars 71 project helicopters image processing low altitude Mercury project National Launch Vehicle Program eter scale. NEW MOONS project technologies GS night flights (aircraft) Nimbus project . nanotechnology OPEN Project adatoms night vision Pioneer project Project SETI microelectromechanical systems target recognition microelectronics terrain analysis Ranger project
Agena B Ranger Program nanoclusters nanofabrication nappes Constellation program nanoindentation ÚŚE folds (geology) Mars Surveyor 98 Program nanoparticles nanorods narcolepsy New Horizons mission nanostructure (characteristics) GS diseases Rover project nanostructure growth . narcolepsy SAIL project nanostructures (devices) Saturn project nanotubes Scout project nanowires A state of profound stupor, produced Skylab program quantum dots by the toxic effect of certain substances; in Starprobe mission quantum electronics diluent gas narcosis, by excessive partial pres-Surveyor project sure of the diluent. . . . Synchronous Communications quantum wires GS unconsciousness Satellite Proj self assembly Tektite project . narcosis ... TIROS project nanotubes physiology Titan project (added June 2000) ∞ poisoning DEF Nanostructures having a closed, tubu-Vanguard project lar morphology that can be single-walled or narcotics Viking Mars program multi-walled. The structures are believed to be GS drugs Voyager project defect free, leading to high strength despite their . . Mission to Planet Earth . narcotics low density; and can be either electrically con-. morphine . . National Aerospace Plane Program ductive or semiconductive, depending on their pentobarbital . . quiet engine program . . supersonic cruise aircraft research helicity. phenobarbital nanotubules psychotropic drugs . . TACT program GS nanostructures (devices) ... Terminal Configured Vehicle . nanotubes narrowband Program carbon nanotubes A description of frequency measure-. . Tilt Rotor Research Aircraft fullerenes ment whose frequency band of energy is smaller Program graphite relative to the rest of the band. Advanced Launch System (STS) RT AgRISTARS project Apollo extension system nanoparticles bandwidth

GS

RT ∞ bands

nanorods

nanostructure (characteristics)

narrowband

Canadian space program

| Committee on Space Research         | NASA space programs                     | NASA programs                                  |
|-------------------------------------|---|--|
|                                     |   |  |
| Communications Technology Satellite | Apollo applications program             | stress analysis                                |
| Earth Resources Information System  | Apollo project                          | structural analysis                            |
| GARP Atlantic Tropical Experiment   | Bioastronautical Orbital Space          |  |
| geographic applications program     | System                                  | National Aerospace Plane Program               |
| Global Atmospheric Research         | Centaur project                         | GS programs                                    |
| Program                             | Earth & Ocean Physics                   | . NASA programs                                |
| grants                              | Applications Program                    | . National Aerospace Plane                     |
|                                     |   | Program  |
| Gravity Probe B                     | Earth Resources Program                 |  |
| Landsat satellites                  | Earth Resources Survey                  | RT aerospace planes                            |
| leasing                             | Program                                 | hypersonic vehicles                            |
| NASA Interactive Planning System    | SEASAT program                          | transatmospheric vehicles                      |
| NASTRAN                             | Echo project                            | X-30 vehicle                                   |
| NOESS                               | Galileo project                         |  |
| OSS-1 payload                       | Gemini project                          | National Airspace System                       |
|                                     |   | RT air traffic control                         |
| payload deployment & retrieval      | Helios Project                          |  |
| system                              | Jupiter project                         | aircraft safety                                |
| Quasat                              | Magellan project (NASA)                 | airports                                       |
| Questol aircraft                    | Mariner program                         | airspace                                       |
| ∞ research projects                 | Mariner Venus-Mercury 1973              | National Airspace Utilization System           |
| rotor systems research aircraft     | Mariner-Mercury 1973                    | National Aviation System                       |
|                                     |   | National / Wation Gystem                       |
| SEASAT satellites                   | Mars 69 project                         | National Airenasa Utilization Contam           |
| single stage to orbit vehicles      | Mars 71 project                         | National Airspace Utilization System           |
| space programs                      | Mercury project                         | RT air law                                     |
| space transportation system         | National Launch Vehicle Program         | air navigation                                 |
| Spacelab                            | NEW MOONS project                       | air traffic                                    |
| SPHINX                              | Nimbus project                          | air traffic control                            |
|                                     |   | aircraft approach spacing                      |
| Starsite program                    | OPEN Project                            |  |
| StormSat satellite                  | Pioneer project                         | airspace                                       |
| Synchronous Earth Observatory       | Project SETI                            | collision avoidance                            |
| satellite                           | Ranger project                          | flight paths                                   |
| technology utilization              | Agena B Ranger Program                  | flight plans                                   |
|                                     |   | flight rules                                   |
| Transit navigation system           | Constellation program                   |  |
| university program                  | Mars Surveyor 98 Program                | National Airspace System                       |
|                                     | New Horizons mission                    | ∞ systems                                      |
|                                     | Rover project                           |  |
| NASA space programs                 | SAIL project                            | National Aviation System                       |
| GS programs                         | Saturn project                          | RT air traffic                                 |
| . NASA programs                     |   | air traffic control                            |
| NASA space programs                 | Scout project                           | air transportation                             |
| Apollo applications program         | Skylab program                          |  |
|                                     | Starprobe mission                       | aircraft approach spacing                      |
| Apollo project                      | Surveyor project                        | flight rules                                   |
| Bioastronautical Orbital Space      | Synchronous Communications              | landing aids                                   |
| System                              | Satellite Proj                          | National Airspace System                       |
| Centaur project                     | Tektite project                         | ∞ systems                                      |
| Earth & Ocean Physics               |   | traffic control                                |
| Applications Program                | TIROS project                           | traine control                                 |
|                                     | Titan project                           | N. C I I I W. I . I . B                        |
| Earth Resources Program             | Vanguard project                        | National Launch Vehicle Program                |
| Earth Resources Survey              | Viking Mars program                     | GS programs                                    |
| Program                             | Voyager project                         | . NASA programs                                |
| SEASAT program                      |   | NASA space programs                            |
| Echo project                        | RT Advanced Launch System (STS)         | National Launch Vehicle                        |
|                                     | Cassini mission                         |  |
| Galileo project                     | Cluster Mission                         | Program  |
| Gemini project                      | Comet Rendezvous Asteroid Flyby         | . space programs                               |
| Helios Project                      | Mission                                 | NASA space programs                            |
| Jupiter project                     | Deep Space 1 Mission                    | National Launch Vehicle                        |
| Magellan project (NASA)             |   | Program  |
| Mariner program                     | International Space Year                | RT launch vehicles                             |
| Mariner Venus-Mercury 1973          | manned Mars missions                    |  |
| ,                                   | Mars sample return missions             | launchers                                      |
| Mariner-Mercury 1973                | Mars Surveyor 2001 Mission              | launching                                      |
| Mars 69 project                     | Next Generation Space Telescope         | launching sites                                |
| Mars 71 project                     | project                                 |  |
| Mercury project                     | 1 /                                     | National Oceanic Satellite System              |
| National Launch Vehicle Program     | Space Station Freedom                   | DEF Joint NASA (Goddard)-DOD venture           |
| NEW MOONS project                   |   | RT artificial satellites                       |
|                                     | NASA Structural Analysis program        |  |
| Nimbus project                      | USE <b>NASTRAN</b>                      | maritime satellites                            |
| OPEN Project                        |   | ∞ systems                                      |
| Pioneer project                     | NASCOM network                          |  |
| Project SETI                        | UF NASA Communication Network           | National Operational Environmental Sat Sys     |
| Ranger project                      | GS communicating                        | USE NOESS                                      |
| Agena B Ranger Program              | 3                                       |  |
|                                     | point to point communication            | national nauko                                 |
| Constellation program               | . NASCOM network                        | national parks                                 |
| Mars Surveyor 98 Program            | networks                                | DEF Areas of scenic beauty or historic         |
| New Horizons mission                | . communication networks                | importance preserved and maintained by a na    |
| Rover project                       | NASCOM network                          | tional government for the enjoyment of the pul |
| SAIL project                        | RT Fleet Satellite Communication System | lic.   |
| Saturn project                      |   | GS land  |
|                                     | Global Tracking Network                 |  |
| Scout project                       | radio communication                     | . parks  |
| Skylab program                      | telecommunication                       | national parks                                 |
| Starprobe mission                   |   | Yellowstone National Park                      |
| Surveyor project                    | NASTRAN                                 | (ID-MT-WY)                                     |
| Synchronous Communications          | UF NASA Structural Analysis program     | · · · · /                                      |
| Satellite Proj                      | GS computer programs                    | National Severe Storms Project                 |
|                                     | 1 1 0                                   |  |
| Tektite project                     | . applications programs (computers)     | RT meteorology                                 |
| TIROS project                       | NASTRAN                                 | tornadoes                                      |
| Titan project                       | RT bending moments                      | warning systems                                |
| Vanguard project                    | computer techniques                     | <del>-</del> •                                 |
| Viking Mars program                 | dynamic loads                           | nations  |
| Voyager project                     | finite element method                   | GS nations                                     |
|                                     |   |  |
| . space programs                    | matrix methods                          | . Afghanistan                                  |
| 30                                  |   |  |
|                                     |   |  |

. Albania . Ireland . United Arab Emirates . Algeria . Israel . United Kingdom . Andorra . Italy . . England . . Gibraltar . Angola . Jamaica . Antigua and Barbuda . . Northern Ireland . Japan . Argentina . Jordan . . Scotland . Armenia . Kazakhstan Wales . United States . Australia Kenya . Austria Kuwait . . Alabama . Azerbaijan . Kyrgyzstan . . Alaska . Bahamas . . Arizona . Laos Bahrain . Latvia . . Arkansas . Bangladesh . Lebanon . . California Barbados Lesotho Colorado . Belarus . Liberia Connecticut Belgium Delaware Libya . Belize . Liechtenstein District of Columbia Lithuania Florida . Benin Luxembourg . Bhutan . . Georgia Madagascar . . Guam Bolivia . . Hawaii . Botswana Malawi Malaysia . . Idaho Brazil . Brunei Maldive Islands . . Illinois Bulgaria Mali . . Indiana Burkina Malta . . lowa Mauritania . . Kansas Burma Burundi Mauritius . . Kentucky Mexico Moldova Louisiana Cambodia Cameroon . . Maine Maryland Monaco Canada Mongolia Alberta Massachusetts British Columbia Michigan Morocco Mozambique Manitoba Minnesota New Brunswick Nepal Mississippi Newfoundland Netherlands Missouri Northwest Territories New Zealand Montana Nova Scotia Nicaragua Nebraska Ontario Niger Nevada Prince Edward Island Nigeria New Hampshire Quebec North Korea New Jersey Saskatchewan Norway New Mexico Yukon Territory Oman New York . Cape Verde Pakistan North Carolina . Central African Republic Panama North Dakota Chad Papua New Guinea Ohio . Chile Paraguay Oklahoma China Peru Oregon Philippines Poland Colombia Pennsylvania Congo (Brazzaville) Puerto Rico Costa Rica Portugal Rhode Island Cote d'Ivoire . Azores South Carolina . . South Dakota . Croatia Qatar Cuba Republic of South Africa Tennessee . Cyprus Romania . . texas Russian Federation Czech Republic . . Utah Czechoslovakia Rwanda . . Vermont . . Vermont
. . Virgin Islands
. Virginia
. Washington
. West Virginia
. Wisconsin Denmark San Marino Saudi Arabia Djibouti Dominica Senegal Seychelles Sierra Leone . Dominican Republic . East Germany Sikkim Wyoming Ecuador Bosnia and Herzegovina Democratic Republic of Congo . Egypt . El Salvador Singapore Slovakia Serbska Republic Estonia Somalia . Ethiopia South Korea Uruguay Finland Southern Yemen Uzbekistan . France Spain Vatican City . . French Guiana Canary Islands Venezuela Guadeloupe Sri Lanka Vietnam . . Martinique Sudan West Germany . Gabon Surinam . Yemen Gambia Swaziland . Yugoslavia Georgia (Eurasia) Sweden Zambia Germany Switzerland . Zimbabwe Ghana Syria RT Africa . Greece Taiwan Asia Grenada Tajikistan . Guatemala Tanzania Commonwealth of Independent Guinea Thailand States . Guyana communities Tibet demography . Haiti . Togo . Trinidad and Tobago . Honduras developing nations . Hungary Tunisia Europe . Iceland . Turkey federations Hong Kong international law . India Turkmenistan U.S.S.R. . Indonesia Uganda minorities . Iran

Ukraine

. Iraq

Namibia

politics linguistics moonlets regimes machine translation planets Spanish Sahara parsing algorithms Roche limit **United Nations** semantics satellite atmospheres satellite surfaces NATO 3B satellite satellites natural lasers GS artificial satellites Saturn rings . communication satellites USE lasers solar system . . Communications Technology tektites natural satellites Satellite Uranus rings (EXCLUDES PLANETS)

Dactyl ... NATO 3B satellite SN nausea moons natural convection A feeling of discomfort in the region of planetary satellites USE free convection the stomach, with aversion to food and a tencelestial bodies dency to vomit. . natural satellites natural frequencies signs and symptoms .. icy satellites USE resonant frequencies . nausea . . . Áriel antiemetics and antinauseants ... Callisto natural gas motion sickness . . . Dione (A) Hydrocarbons that exist as a gas or vomiting Enceladus vapor at ordinary pressures and temperatures. Methane is the momost important, but ethane, . Europa nautical charts Ganymede Hyperion propane, or others may be present. (B) Gaseous DEF Charts and maps of oceans, coasts hydrocarbons trapped in the zone of ground and harbors now compiled from satellite data for lapetus water saturation under pressure from, and parprecision and correction of local errors. Mimas tially dissolved in, underlying water or petro-GS charts Rhea (astronomy) . nautical charts Tethys GS fuels navigation aids . chemical fuels Titania navigation satellites Jupiter satellites . . hydrocarbon fuels surface navigation ... fossil fuels Adrastea .... natural gas Amalthea Navaho missile . . . . . liquefied natural gas Carme GS missiles gaseous fuels Elara . ramjet missiles Galilean satellites . . natural gas ... Navaho missile . . . liquefied natural gas Callisto . surface to surface missiles Europa . . cruise missiles gases Ganymede . flammable gases . Navaho missile . . gaseous fuels liquid propellant rocket engines Himalia multistage rocket vehicles ... natural gas . . . liquefied natural gas Leda ramjet engines geophysical fluids Lysithea natural gas Metis Navier-Stokes equation . liquefied natural gas Pasiphae The equation of motion for a viscous Sinope organic compounds fluid. . hydrocarbons Thebe equations of motion . . natural gas . . Mars satellites . Navier-Stokes equation . . liquefied natural gas Deimos flow equations Navier-Stokes equation . Phobos resources moon Burger equation . Earth resources computational fluid dynamics . . Neptune satellites . . fossil fuels direct numerical simulation Galatea . . . natural gas . . . Larissa ∞ equations . . . liquefied natural gas Naiad flow theory RT methane Nereid incompressible flow natural gas exploration incompressible fluids large eddy simulation Proteus oil fields Triton petroleum products . . Pluto satellites Milne-Thomson method . . . Charon natural gas exploration Newtonian fluids Searching the geological features to Hydra Oseen approximation identify locations for stimulating wells for recov-. . . Nix Reynolds averaging Saturn satellites ery of natural gas. Reynolds equation GS exploration Calypso Reynolds stress natural gas exploration Dione viscous flow Enceladus drilling viscous fluids methane Epimetheus natural gas Helene oil exploration Hyperion The practice or art of directing the photogeology lapetus movement of a craft from one point to another. Janus Navigation usually implies the presence of a natural language (computers) Mimas human, a navigator, aboard the craft. DEF A computer language whose rules re-Pandora GS navigation flect and describe current rather than prescribed Phoebe . air navigation usage. The language is often loose and ambigu-Prometheus . . all-weather air navigation ous in interpretation. Rhea (astronomy) . . area navigation languages GS Telesto . . nap-of-the-earth navigation . programming languages Tethys . . terrain following . natural language (computers) . autonomous navigation Titan computer programming . . Uranus satellites . celestial navigation . . Astroguide Navigation System context Ariel data processing Cordelia . astronavigation knowledge representation dead reckoning Miranda Oberon digital navigation Doppler navigation natural language processing Puck (added September 1993) Titania hybrid navigation systems artificial intelligence . . . Umbriel . inertial navigation expert systems artificial satellites . . Astroguide Navigation System gimballess inertial navigation human-computer interface Cyrillid meteoroids Earth-Moon system information analysis . Omega Navigation System

meteoroids

. polar navigation

knowledge based systems

|          | . radar navigation   | heliports  | Transit navigation system   |
|----------|--|--|---|
|          | . radio navigation   | homing devices   |   |
|          | hyperbolic navigation  | hybrid navigation systems  | navigation technology satellites  |
|          | Decca navigation   | inertial navigation  | DEF Class of navigation satellites utilizing  |
|          | LORAC navigation system  | Kalman filters   | the global positioning system as well as a pre-   |
|          | loran  | landing aids   | cise frequency and timing system. Used for  |
|          | loran C  | laser range finders  | NTS.  |
|          | loran D  | LORAC navigation system  | UF NTS  |
|          | Shoran   | loran  | GS artificial satellites  |
|          | Tacan  | loran C  | . navigation satellites   |
|          | VHF omnirange navigation   | loran D  | navigation technology satellites  |
|          | . space navigation   | maps   | RT NAVSTAR satellites   |
|          | . interplanetary navigation  | ∞ mars   |   |
|          | . proportional navigation  | military air facilities  | navigators  |
|          | . surface navigation   | nautical charts  | GS personnel  |
| RT       | automatic flight control   | plotters   | . navigators  |
|          | azimuth  | position indicators  | RT flight crews   |
|          | bay ice  | radio navigation   | flying personnel  |
|          | declination  | range finders  | ,   |
|          | distance measuring equipment   | reduced order filters  | Navion aircraft   |
|          |  |  | GS Navion aircraft  |
| 000      | fixing   | reference stars  | . G-1 aircraft  |
|          | flight control   | sextants   | RT ∞ aircraft   |
|          | flight paths   | Shoran   | TTT GITOTOTT  |
|          | Global Positioning System  | solar sensors  | Navion G-1 aircraft   |
|          | guidance (motion)  | sonar  | USE <b>G-1 aircraft</b>   |
|          | gyroscopic coupling  | star trackers  | OOL O I dilorait  |
|          | homing devices   | surface navigation   | Navion Rangemaster aircraft   |
|          | latitude measurement   | Tacan  | USE <b>G-1 aircraft</b>   |
|          | locomotion   | VHF omnirange navigation   | USE G-I alliciali   |
|          | longitude measurement  | weather  | NAVCTAD actallitae  |
|          | orbital position estimation  |  | NAVSTAR satellites  |
|          | plotting   |  | GS artificial satellites  |
|          | position (location)  |  | . navigation satellites   |
|          |  | navigation instruments   | NAVSTAR satellites  |
|          | position errors  | GS navigation aids   | RT active satellites  |
|          | positioning  | . navigation instruments   | ATS   |
|          | star trackers  | attitude indicators  | geodetic satellites   |
|          | stationkeeping   | gyro horizons  | INMARSAT satellites   |
|          | systems  | compasses  | navigation technology satellites  |
|          | triangulation  | gyrocompasses  | Refsat  |
|          |  | magnetic compasses   | satellite networks  |
|          |  | solar compasses  | Satelite networks   |
| navigati |  | radio direction finders  | navy  |
| GS       | navigation aids  |  |   |
|          | . beacons  |  | GS armed forces   |
|          | airport beacons  | aircraft instruments   | . navy  |
|          | discrete address beacon system   | altimeters   | RT aircraft carriers  |
|          |  |  |   |
|          | radar beacons  | autonomous navigation  | ballistic missile submarines  |
|          | radar beacons  | boresight error  | ballistic missile submarines<br>Fleet Satellite Communication System  |
|          | radar beacons discrete address beacon system   |  | ballistic missile submarines  |
|          | . radar beacons discrete address beacon system . radio beacons   | boresight error  | ballistic missile submarines<br>Fleet Satellite Communication System  |
|          | . radar beacons discrete address beacon system . radio beacons omnidirectional radio ranges  | boresight error<br>flight control  | ballistic missile submarines<br>Fleet Satellite Communication System<br>nuclear powered ships   |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange   | boresight error<br>flight control<br>flight instruments<br>gimballess inertial navigation  | ballistic missile submarines<br>Fleet Satellite Communication System<br>nuclear powered ships<br>ships  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders   | boresight error<br>flight control<br>flight instruments<br>gimballess inertial navigation<br>horizon scanners  | ballistic missile submarines<br>Fleet Satellite Communication System<br>nuclear powered ships<br>ships<br>submarines  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine  |
|          | . radar beacons discrete address beacon system . radio beacons omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System microwave scanning beam landing system   | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms ∞ instruments   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing system . navigation instruments  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms ∞ instruments Kalman-Schmidt filtering  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing . system . navigation instruments . attitude indicators  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing . system . navigation instruments . attitude indicators gyro horizons  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft   |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System microwave scanning beam landing system .navigation instruments . attitude indicators . gyro horizons . compasses   | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing . system . navigation instruments . attitude indicators gyro horizons  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses   | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft NDM semiconductor devices  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing . system . navigation instruments . attitude indicators gyro horizons . compasses gyrocompasses  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft NDM semiconductor devices  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses   | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES)  |
|          | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . solar compasses   | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System microwave scanning beam landing system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System microwave scanning beam landing system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft USE INTERPOLICES SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment solid state devices . semiconductor devices   |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  USE C-130 aircraft  USE SMI (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices semiconductor devices NDM semiconductor devices   |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System microwave scanning beam landing system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment   | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices semiconductor devices RT conduction bands  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft instruments  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices  NDM semiconductor devices  RT conduction bands ∞ devices   |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft instruments aircraft safety  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM  navigation satellites GS artificial satellites  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft USE INTERPOLICES SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices NDM semiconductor devices  RT conduction bands ∞ devices diffusivity  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft safety airports  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM  navigation satellites GS artificial satellites . navigation satellites   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  USE C-130 aircraft  USE Many body problem  NC-130 aircraft  USE C-130 aircraft  USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES)  UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices NDM semiconductor devices RT conduction bands ∞ devices diffusivity electron mobility   |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM  navigation satellites S artificial satellites Aerosat satellites Aerosat satellites  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft USE INTERPOLICES SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices NDM semiconductor devices  RT conduction bands ∞ devices diffusivity  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft instruments ail-weather air navigation altimeters  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM  navigation satellites GS artificial satellites . navigation satellites . Aerosat satellites . Explorer 22 satellite  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices  NDM semiconductor devices  RT conduction bands ∞ devices diffusivity electron mobility ionic mobility  |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft safety airports all-weather air navigation altimeters approach indicators  | boresight error flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  inertial platforms  inertial platforms  inertial platforms  inertial platforms  Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM  navigation satellites GS artificial satellites . navigation satellites . Lexplorer 22 satellite . navigation technology satellites   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft USE INTERPOLICES SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices NDM semiconductor devices NDM semiconductor devices devices diffusivity electron mobility ionic mobility  NDVI (remote sensing)   |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft instruments ail-weather air navigation altimeters approach indicators automatic flight control   | boresight error flight control flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM  navigation satellites GS artificial satellites . navigation satellites . Lexplorer 22 satellite . navigation technology satellites . NAVSTAR satellites   | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine ∞ vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft USE C-130 aircraft USE Many body problem  NCHAND Semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment solid state devices Semiconductor devi |
| RT ∞     | . radar beacons . discrete address beacon system . radio beacons . omnidirectional radio ranges self calibrating omnirange . radio direction finders . Light Airborne Multipurpose System . microwave scanning beam landing     system . navigation instruments . attitude indicators . gyro horizons . compasses . gyrocompasses . magnetic compasses . radio direction finders . TERCOM aids air navigation air traffic control aircraft equipment aircraft safety airports all-weather air navigation altimeters approach indicators automatic flight control automatic pilots  | boresight error flight control flight control flight instruments gimballess inertial navigation horizon scanners hybrid navigation systems inertial platforms  ∞ instruments Kalman-Schmidt filtering laser range finders Light Airborne Multipurpose System LORAC navigation system loran measuring instruments position indicators radar solar sensors star trackers TERCOM   navigation satellites S artificial satellites Aerosat satellites Explorer 22 satellite NAVSTAR satellites NAVSTAR satellites NAVSTAR satellites Nova satellites Nova satellites  | ballistic missile submarines Fleet Satellite Communication System nuclear powered ships ships submarines trident submarine      vessels  N-body problem USE many body problem  NC-130 aircraft USE C-130 aircraft  USE C-130 aircraft  NDM semiconductor devices SN (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES) UF negative diff mobility semiconductors GS electronic equipment . solid state devices semiconductor devices NDM semiconductor devices CONDUCTOR DEVICES  SM (NEGATIVE DIFFERENTIAL MOBILITY SEMICONDUCTOR DEVICES)  UF negative diff mobility semiconductors GS electronic equipment . solid state devices NDM semiconductor devices NDM semiconductor devices diffusivity electron mobility  NDVI (remote sensing) (added June 2001) USE normalized difference vegetation  |
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EROS asteroid near Earth objects rendezvous trajectories Rosetta mission

#### near Earth objects

(added November 2001)

Asteroids, meteoroids, or short-period comets having trajectories that intersect the orbit of Earth or that are within 0. 3 Astronomical Units (AU) of Earth. Asteroids and comets with perihelion distance less than 1. 3 AU.

NEO (astronomy) GS celestial bodies . near Earth objects RT asteroid collisions asteroids cometary collisions comets Earth orbital environments meteorite collisions meteorites Near Earth Asteroid Rendezvous Mission space debris

#### near fields

electromagnetic fields GS

near fields

antenna radiation patterns antennas

electromagnetic radiation

far fields laser arrays radio equipment sidelobes

#### near infrared radiation

(0. 75 TO 3 MICRONS) electromagnetic radiation . infrared radiation

. near infrared radiation far infrared radiation

infrared photometry light (visible radiation) ∞ radiation

radiative heat transfer radiative transfer terrestrial radiation thermal radiation

# near ultraviolet radiation

(2000 TO 4000 ANGSTROMS) electromagnetic radiation . ultraviolet radiation GS

. near ultraviolet radiation

far ultraviolet radiation light (visible radiation) ∞ radiation

# near wakes

GS wakes

near wakes

#### nearshore water

GS water

#### . nearshore water

. coastal water

RT marine environments oceans sea water vadose water water depth

wetlands

#### Nebraska

GS nations . United States . Nebraska

Missouri River (US) Sand Hills Region (NE)

#### nebulae

Clouds of interstellar gas and dust, seen either as a luminous patch of light or a dark cloud against a bright background. The term nebula was coined to describe objects that appeared fuzzy when viewed through early telescopes.

celestial bodies GS

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. nebulae
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. . Cassiopeia A Crab nebula . . Gum nebula

. . H I regions . . H II regions

. . Herbig-Haro objects

. . Orion nebula . . planetary nebulae . . reflection nebulae

. . solar nebula galaxies

interstellar matter irregular galaxies Maffei galaxies

Magellanic clouds

North Polar Spur (astronomy)

Ophiuchi clouds Opik theory solar corona star formation supernovae

#### neck (anatomy)

GS anatomy

neck (anatomy)

vertebrae

#### necrosis

(added October 2000)

(added October 2000)

DEF One of the two mechanisms by which cell death occurs (the other being the physiological process of APOPTOSIS). A pathological process caused by the progressive degradative action of enzymes that is generally associated with severe cellular trauma. It is characterized by mitochondrial swelling, nuclear flocculation, uncontrolled cell lysis, and ultimately cell death. In general, cell or tissue death caused by disease or injury.

UF pathological cell death GS pathological effects

necrosis RT apoptosis cells (biology) cytology death

diseases hypoxia injuries

myocardial infarction

pathology tissues (biology)

### needle bearings

GS bearings

. antifriction bearings . . roller bearings

. needle bearings

ball bearings

#### needles

RT dendritic crystals sewing single crystals surgical instruments

# needs (data system)

NASA End-to-End Data System data systems

. needs (data system) end-to-end data systems

needs (data system) data acquisition

data processing satellite instruments ∞ systems VSAT (network)

#### neel temperature GS

temperature . neel temperature

antiferromagnetism magnetic permeability phase transformations specific heat thermal expansion

## negative conductance

RT avalanche diodes

gallium arsenides Gunn effect tunnel diodes

negative diff mobility semiconductors USE NDM semiconductor devices

#### negative electron affinity

affinity

. negative electron affinity

electron affinity electron emission gallium arsenides photoelectric emission semiconductors (materials)

#### negative feedback

DEF Feedback which results in decreasing the amplification. Used for degenerative feed-

UF degenerative feedback

feedback GS

#### . negative feedback RT

automatic control damping degeneration feedback control nonlinear feedback oscillators transfer functions

## negative ions

lons singly or in groups which acquire negative charges by gaining one or more electrons.

GS

#### . negative ions

. anions free radicals ionic mobility nitrogen ions oxygen ions plasma physics

# negative matter

(added August 1991)

(NOT ANTIMATTER)
A hypothetical form of matter whose active-gravitational, passive-gravitational, inertial, and rest mass are opposite in sign to normal, positive matter. Negative matter is not antimatter.

GS matter (physics)

. negative matter antimatter

condensed matter physics extraterrestrial matter mass

# negative matter propulsion (added August 1991)

propulsion

. spacecraft propulsion

negative matter propulsion

interplanetary flight interstellar travel

matter-antimatter propulsion rocket engines

#### negative resistance circuits

circuits

. negative resistance circuits

RT ∞ resistance tunnel diodes

#### negative resistance devices

RT aluminum gallium arsenides gallium arsenides Gunn diodes Gunn effect MIM diodes negatrons parametric amplifiers

Ramsauer effect ∞ resistance

resonant tunneling

DEF Negative electrons. Sometimes shortened to negations

| GS               | particles  |                    | gases   |          | synoptic meteorology   |
|------------------|--|--------------------|---|----------|--|
| 00               | . charged particles  |                    | . rare gases  |          | weather forecasting  |
|                  | . energetic particles  |                    | neon  |          | g  |
|                  | electrons  |                    | liquid neon   | nepheli  | ne   |
|                  | negatrons  |                    | neon isotopes   | GS       | aluminum compounds   |
|                  | . corpuscular radiation  |                    |   |          | nepheline  |
|                  | energetic particles  | neon 19            | _   |          | minerals   |
|                  | electrons  | USE                | neon isotopes   |          | . nepheline  |
|                  | negatrons  | noon is            | ntanas  |          | potassium compounds  |
|                  | . elementary particles   | neon is<br>UF      | neon 19   |          | . nepheline<br>silicon compounds   |
|                  | fermions   | GS                 | chemical elements   |          | . silicates  |
|                  | leptons<br>electrons   | 00                 | . nuclides  |          | nepheline  |
|                  | negatrons  |                    | . isotopes  |          | sodium compounds   |
| RT               | negative resistance devices  |                    | neon isotopes   |          | . nepheline  |
|                  | g  |                    | . rare gases  | RT       | nephelite  |
| Nembu            | tal (trademark)  |                    | neon  |          |  |
| GS               | drugs  |                    | neon isotopes   | nepheli  |  |
|                  | . Nembutal (trademark)   |                    | gases   | GS       | aluminum compounds   |
|                  | ketones  |                    | . rare gases  |          | nephelite  |
|                  | . Nembutal (trademark)   |                    | neon  |          | chalcogenides  |
|                  | sodium compounds   |                    | neon isotopes   |          | . oxides silicon oxides  |
| RT               | . Nembutal (trademark)   | neopen             | ane   |          | nephelite  |
| KI               | pentobarbital sodium   | GS                 | organic compounds   |          | minerals   |
| Nemesi           | s (star)   | 00                 | . hydrocarbons  |          | . nephelite  |
| UF               | solar companion star   |                    | aliphatic hydrocarbons  |          | silicon compounds  |
| GS               | celestial bodies   |                    | alkanes   |          | . silicon oxides   |
|                  | . stars  |                    | pentanes  |          | . nephelite  |
|                  | double stars   |                    | neopentane  | RT       | . *  |
|                  | binary stars   | _                  |   |          | ·  |
|                  | companion stars  | neoplas            |   | nephelo  |  |
|                  | Nemesis (star)   | GS                 | diseases  |          | General name for instruments which   |
| RT               | dwarf stars  |                    | . tumors  |          | e, at more than one angle, the scattering  |
|                  | extinction   |                    | reoplasms   |          | of particles suspended in a medium   |
|                  | Oort cloud   |                    | leukemias   |          | ents for chemical analysis by measuring  |
|                  | solar neighborhood<br>stellar orbits   | RT                 | carcinogens   | GS       | scattering properties of a suspension. measuring instruments   |
|                  | stellar systems  | 111                | cysts   | 00       | . optical measuring instruments  |
|                  | Stellar Systems  |                    | metastasis  |          | nephelometers  |
| NEO (a           | stronomy)  |                    | tumor suppressor genes  |          | optical equipment  |
|                  | ed November 2001)  |                    | tumor suppressor proteins   |          | . optical measuring instruments  |
| USE              | near Earth objects   |                    |   |          | . nephelometers  |
|                  |  | neopren            |   | RT       | nephanalysis   |
| neodyn           |  | USE                | chloroprene resins  |          | optical measurement  |
| GS               | chemical elements  |                    |   |          | photometers  |
|                  | . rare earth elements  | neotect            |   |          |  |
|                  | neodymium  |                    | ed May 2002)  | nephriti |  |
|                  | metals   |                    | Study of the most recent crustal move-<br>and structures of the Earth or other  | GS       | diseases   |
|                  | . rare earth elements  |                    | al planets.   |          | . kidney diseases  |
| RT               | <b>neodymium</b><br>didymium   |                    | geology   | RT       | nephritis<br>bacterial diseases  |
| IXI              | didyffiidiff   | 00                 | . tectonics   | KI       | Dacterial diseases   |
| neodvn           | nium alloys  |                    | neotectonics  | Neptun   | e (planet)   |
| GS               | alloys   | RT                 | Earth movements   | GS       | celestial bodies   |
|                  | . rare earth alloys  |                    | plates (tectonics)  |          | . planets  |
|                  | neodymium alloys   |                    | sea floor spreading   |          | . gas giant planets  |
|                  |  |                    | structural properties (geology)   |          | Neptune (planet)   |
| neodyn           | nium compounds   |                    | subduction (geology)  | RT       | Galatea  |
| GS               | rare earth compounds   |                    |   |          | Larissa  |
|                  | neodymium compounds  |                    | ularization   |          | Naiad  |
|                  | o chemical compounds   | •                  | ed June 2004)   |          | Neptune atmosphere   |
| ٥                | ∘ metal compounds  | USE                | angiogenesis  |          | Neptune satellites   |
| naadun           | nium isotopes  | Monal              |   |          | Nereid   |
| GS               | chemical elements  | <b>Nepal</b><br>GS | nations   |          | Proteus<br>Triton  |
| GS               | . nuclides   | 93                 | . Nepal   |          | Voyager 2 spacecraft   |
|                  | isotopes   | RT                 | Asia  |          | voyager 2 spacecraft   |
|                  | neodymium isotopes   | 111                | 71010   | Neptun   | e atmosphere   |
|                  | . rare earth elements  | nephan             | alvsis  |          | The atmosphere of the planet Neptune   |
|                  | . neodymium isotopes   |                    | A type of analysis using satellite cloud  |          | s primarily composed of hydrogen and   |
|                  | metals   |                    | to study the relationship between cloud   | methane  | e.   |
|                  | . rare earth elements  | formatio           | n and storm systems.  | GS       | environments   |
|                  | neodymium isotopes   | RT                 | Alpine meteorology  |          | . extraterrestrial environments  |
|                  | noodymnam lootopoo   |                    | anvil clouds  |          | planetary environments   |
| noodyn           |  |                    |   |          | planetary atmospheres  |
| -                | nium lasers  |                    | Atmospheric Cloud Physics Lab   |          |  |
| GS               | nium lasers stimulated emission devices  |                    | (Spacelab)  | D.T.     | Neptune atmosphere   |
| -                | nium lasers<br>stimulated emission devices<br>lasers   |                    | (Spacelab) cap clouds   |          | Neptune atmosphere aerospace environments  |
| GŠ               | nium lasers<br>stimulated emission devices<br>. lasers<br>neodymium lasers   |                    | (Spacelab)<br>cap clouds<br>chemical analysis   |          | Neptune atmosphere aerospace environments atmospheres  |
| -                | nium lasers stimulated emission devices lasers neodymium lasers coherent light   |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds   |          | Neptune atmosphere aerospace environments atmospheres gas giant planets  |
| GŠ               | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers  |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds   |          | Neptune atmosphere aerospace environments • atmospheres gas giant planets hydrogen   |
| GŠ               | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers optical pumping  |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover   |          | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane   |
| GŠ               | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers  |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover cloud physics   |          | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane Neptune (planet)  |
| GŠ               | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers optical pumping  |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover   |          | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane   |
| GS<br>RT         | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers optical pumping  |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover cloud physics clouds (meteorology)  |          | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane Neptune (planet) planetary ionospheres                                      |
| GS<br>RT<br>neon | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers optical pumping rare earth elements                                    |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover cloud physics clouds (meteorology) convection clouds meteorological instruments meteorology               | Neptun   | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane Neptune (planet) planetary ionospheres Triton e satellites                  |
| GS<br>RT<br>neon | nium lasers stimulated emission devices . lasers neodymium lasers coherent light glass lasers optical pumping rare earth elements  chemical elements . rare gases neon |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover cloud physics clouds (meteorology) convection clouds meteorological instruments meteorology nephelometers | Neptun   | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane Neptune (planet) planetary ionospheres Triton  e satellites ed August 1989) |
| GS<br>RT<br>neon | nium lasers stimulated emission devices . lasers . neodymium lasers coherent light glass lasers optical pumping rare earth elements  chemical elements . rare gases    |                    | (Spacelab) cap clouds chemical analysis cirrocumulus clouds cirrostratus clouds cloud cover cloud physics clouds (meteorology) convection clouds meteorological instruments meteorology               | Neptun   | Neptune atmosphere aerospace environments atmospheres gas giant planets hydrogen methane Neptune (planet) planetary ionospheres Triton e satellites                  |

|           | Neptune satellites                       |         | neurons   |           | graph theory                              |
|-----------|--|---------|---|-----------|---|
|           | Galatea                                  |         | neurons   |           | graph theory<br>Kirchhoff law of networks |
|           | Larissa                                  | nerves  |   |           | netting (materials/structures)            |
|           | Naiad                                    | GS      | anatomy   |           | networks                                  |
|           |  | GS      | anatomy   |           |   |
|           | Nereid                                   |         | . nervous system  |           | Petri nets                                |
|           | Proteus                                  |         | nerves  |           | structured grids (mathematics)            |
| DT        | Triton                                   |         | ganglia   |           | superposition (mathematics)               |
| RT        | Neptune (planet)                         |         | myelin sheath   |           | topology                                  |
|           |  |         | nerve fibers  |           | trees (mathematics)                       |
| neptuni   |  |         | oculomotor nerves                                       | 44!       | (t  |
| GS        | chemical elements                        | RT      | carotid sinus body                                      |           | (materials/structures)                    |
|           | . actinide series                        |         | carotid sinus reflex                                    |           | ed July 1995)                             |
|           | transuranium elements                    |         | dendrites   | RT        | camouflage                                |
|           | neptunium                                |         | His bundle  |           | coverings                                 |
|           | neptunium isotopes                       |         | myelin  |           | crosslinking                              |
|           | . nuclides                               |         | neuritis  |           | crystal growth                            |
|           | isotopes                                 |         | neurons   |           | fibers                                    |
|           | radioactive isotopes                     |         | sciatic region  |           | filament winding                          |
|           | transuranium elements                    |         | synapses  |           | laminates                                 |
|           | neptunium                                |         | -yp   |           | molecular chains                          |
|           | neptunium isotopes                       | nervous | s system  | ∞         | nets                                      |
|           | metals                                   | UF      | vasomotor nervous system                                |           | parachute fabrics                         |
|           |  |         | •   |           | webs (sheets)                             |
|           | . actinide series                        | GS      | anatomy   |           | webs (silects)                            |
|           | transuranium elements                    |         | nervous system  | network   | analysis                                  |
|           | neptunium                                |         | afferent nervous systems                                | UF        | Tellegen theory                           |
|           | neptunium isotopes                       |         | autonomic nervous system                                |           | network analysis                          |
|           |  |         | sympathetic nervous system                              | 65        |   |
|           | um compounds                             |         | central nervous system                                  |           | . critical path method                    |
| GS        | actinide series compounds                |         | brain   | 5.7       | . sneak circuit analysis                  |
|           | neptunium compounds                      |         | brain stem  | RI∞       | analyzing                                 |
| RT ∝      | chemical compounds                       |         | cerebellum  |           | circuits                                  |
|           | metal compounds                          |         | cerebral ventricles                                     |           | data flow analysis                        |
|           | ·  |         | cerebrum  |           | distributed parameter systems             |
| nentuni   | um isotopes                              |         | cerebral cortex   |           | duality principle                         |
|           | chemical elements                        |         | occipital lobes   |           | electric terminals                        |
| 00        | . actinide series                        |         | diencephalon  |           | equivalent circuits                       |
|           |  |         | hypothalamus  |           | Foster theory                             |
|           | transuranium elements                    |         |   |           | gyrators                                  |
|           | neptunium                                |         | pineal gland  |           | hydraulic equipment                       |
|           | neptunium isotopes                       |         | thalamus  |           | insertion                                 |
|           | . nuclides                               |         | hippocampus   |           | Kirchhoff law of networks                 |
|           | isotopes                                 |         | spinal cord   |           | LC circuits                               |
|           | radioactive isotopes                     |         | efferent nervous systems                                |           |   |
|           | transuranium elements                    |         | nerves  | 00        | paths                                     |
|           | neptunium                                |         | ganglia   |           | RC circuits                               |
|           | neptunium isotopes                       |         | myelin sheath   |           | RL circuits                               |
|           | metals                                   |         | nerve fibers  |           | RLC circuits                              |
|           | . actinide series                        |         | oculomotor nerves                                       |           | signal flow graphs                        |
|           | transuranium elements                    |         | peripheral nervous system                               |           | superposition (mathematics)               |
|           | neptunium                                | RT      | dendrites   |           |   |
|           | neptunium isotopes                       |         | electrophysiology                                       | network   | control                                   |
|           | neptumum isotopes                        |         | homeostasis   | DEF       | The management of acquisition, rout       |
| Monaid    |  |         | myelin  | ing, and  | switching primarily in satellite commu    |
| Nereid    | ad August 1000)                          |         | neurasthenia  | nication. |   |
|           | ed August 1989)                          |         | neuritis  | RT        | communication networks                    |
| GS        | celestial bodies                         |         |   |           | communication satellites                  |
|           | . natural satellites                     |         | neuroglia   |           | computer networks                         |
|           | Neptune satellites                       |         | neurons   | 00        | control                                   |
|           | Nereid                                   |         | neuropsychiatry   | -         | local area networks                       |
| RT        | Neptune (planet)                         |         | neurotransmitters                                       |           | packet switching                          |
|           |  |         | proprioceptors  |           | satellite networks                        |
| Nernst of | generators                               |         | psychopharmacology                                      |           |   |
| USE       | thermomagnetic cooling                   |         | sense organs  |           | transmission efficiency                   |
|           |  |         | synapses  | notice-1  | synthesis                                 |
| Nernst h  | neat theorem                             | 00      | systems   |           |   |
|           | Nernst-Ettingshausen effect              |         |   | UF        | Tellegen theory                           |
| 302       |  | Netherl | ands  | RT        | communication theory                      |
| Nornet-   | Ettingshausen effect                     | UF      | Holland   |           | equivalent circuits                       |
|           | Ettingshausen effect Nernst heat theorem | GS      | nations   |           | hydraulic equipment                       |
|           |  |         | Netherlands   |           | Kirchhoff law of networks                 |
| GS        | galvanomagnetic effects                  | RT      | Astronomical Netherlands Satellite                      |           | LC circuits                               |
| ь.        | Nernst-Ettingshausen effect              | 101     | Europe  |           | networks                                  |
| RT∝       | effects                                  |         | •   |           | RC circuits                               |
|           | temperature effects                      |         | Netherlands space program                               |           | Richards theorem                          |
|           | thermomagnetic effects                   |         | Surinam   |           | RL circuits                               |
|           |  |         |   |           | RLC circuits                              |
| NERVA     | (engine)                                 |         | ands space program                                      |           | superposition (mathematics)               |
|           | nuclear engine for rocket vehicles       |         | ed March 1989)  |           | switching theory                          |
|           |  | GS      | programs  |           | synthesis                                 |
| nerve fi  | hers                                     |         | . space programs  | ∞         | topology                                  |
|           | ed August 2004)                          |         | European space programs                                 |           | lopology                                  |
|           | Slender processes of neurons, includ-    |         | Netherlands space program                               | network   | re.                                       |
|           |  | RT      | Astronomical Netherlands Satellite                      |           |   |
|           | axons and their glial envelopes ( myelin |         | Infrared Astronomy Satellite                            | GS        | networks                                  |
|           | Nerve fibers conduct nerve impulses to   |         | Netherlands   |           | . belief networks                         |
|           | n the central nervous system.            |         |   |           | . communication networks                  |
| GS        | anatomy                                  | ∞ nets  |   |           | Aloha system                              |
|           | . nervous system                         |         | (LISE OF A MORE SPECIFIC TERM IS                        |           | Deep Space Network                        |
|           | nerves                                   | SN      | (USE OF A MORE SPECIFIC TERM IS RECOMMENDED CONSULT THE |           | internets                                 |
|           | nerve fibers                             |         | TERMS LISTED BELOW)                                     |           | ARPA computer network                     |
| RT        | axons                                    | RT      | coordinates   |           | World Wide Web                            |
| -         | electrophysiology                        |         | distribution functions                                  |           | Iridium network                           |
|           | myelin sheath                            |         | geodetic coordinates                                    |           | local area networks                       |
|           | ,  |         | goodollo ooorallialoo                                   |           | Jour aroa riotworks                       |

|                | NASCOM network                            |               | neuroblasts                              |          | . neurotic depression                               |
|----------------|---|---------------|--|----------|---|
|                | VSAT (network)                            | RT            | embryology                               | RT o     | ∘ depression  |
|                | wide area networks                        |               |  |          | psychotic depression                                |
|                | . computer networks                       | neurogl       |  |          | _   |
|                | internets                                 | GS            | tissues (biology)                        |          | ansmitters  |
|                | ARPA computer network                     | DT            | . neuroglia                              | DEF      | Chemical substances secreted by the                 |
|                | World Wide Web                            | RT            | brain<br>cells (biology)                 |          | l ends of axons, which stimulate a                  |
|                | client server systems                     |               | ganglia                                  | neurons  | fiber contraction or an impulse in other            |
|                | local area networks wide area networks    |               | nervous system                           | GS       | neurotransmitters                                   |
|                | . defense communications system           |               | spinal cord                              | 00       | . acetylcholine                                     |
|                | (DCS)                                     |               |  |          | . vasopressins                                      |
|                | . electric networks                       | neurolo       | gy                                       | RT       | angiotensins  |
|                | . iterative networks                      | DEF           | The study of the anatomy, physiology,    |          | axons   |
|                | . neural nets                             |               | hology of the nervous system. Used for   |          | catecholamine                                       |
|                | . Orion (radio interferometry network)    | neurosc       |  |          | cells (biology)                                     |
|                | . Petri nets                              | UF<br>GS      | neuroscience<br>medical science          |          | dopamine  |
|                | . quadrupole networks                     | 63            | . neurology                              |          | epinephrine   |
|                | . satellite networks Argos system         | RT            | brain                                    |          | nervous system neuromuscular transmission           |
|                | satellite constellations                  |               | chemical defense                         |          | norepinephrine                                      |
|                | Constellation-X                           |               | electrophysiology                        |          | synapses  |
|                | Iridium network                           |               | life sciences                            |          | 3 4   |
|                | VSAT (network)                            |               | neuropsychiatry                          | neurotr  | opism   |
|                | . tracking networks                       |               | thresholds (perception)                  | GS       | tropism   |
|                | Deep Space Network                        |               |  |          | . neurotropism                                      |
|                | Global Tracking Network                   | RT            | uscular transmission acetylcholine       |          |   |
|                | manned space flight network               | IXI           | bioelectricity                           |          | atmospheres   |
|                | MATTS (systems)                           |               | cholinesterase                           | KI °     | <ul><li>atmospheres</li><li>neutral gases</li></ul> |
|                | polystation doppler tracking system       |               | neurotransmitters                        |          | neutral gases                                       |
|                | radar networks                            |               | peripheral nervous system                | neutral  | atoms   |
|                | space detection and tracking system       |               | synapses                                 |          | Atoms in which the number of elec-                  |
|                | Space Flight Tracking and Data            |               |  | trons su | irrounding the nucleus equals the num-              |
|                | Network                                   |               | transmission                             | ber of p | rotons in the nucleus resulting in no net           |
|                | STDN (network)                            | USE           | bioelectricity                           | electric |   |
| RT             | data links                                | neurons       |  | GS       | atoms   |
|                | educational television                    | GS            | cells (biology)                          | БТ       | . neutral atoms                                     |
|                | gravimetry                                |               | . neurons                                | RT       | atomic beams  |
|                | ground stations                           |               | axons                                    |          | charge distribution  elements                       |
|                | information systems                       |               | dendrites                                |          | H I regions   |
| ~              | nets<br>network synthesis                 |               | neuroblasts                              |          | neutral beams                                       |
|                | protocol (computers)                      | RT            | blood-brain barrier                      |          | neutral gases                                       |
|                | telecommunication                         |               | myelin                                   |          | •   |
|                |   |               | nerve fibers                             | neutral  |   |
| Neumar         | n problem                                 |               | nerveus system                           | GS       | beams (radiation)                                   |
| GS             | analysis (mathematics)                    |               | nervous system<br>synapses               |          | . particle beams                                    |
|                | . real variables                          |               | syncoders                                |          | neutral beams                                       |
|                | Neumann problem                           |               | 3,1.000.0                                |          | molecular beams neutron beams                       |
|                | boundary value problems                   | neuropl       | hysiology                                | RT       | atomic beams  |
| RT             | . Neumann problem differential equations  | GS            | physiology                               | 131      | beam injection                                      |
| IXI            | partial differential equations            |               | neurophysiology                          |          | beam neutralization                                 |
| ~              | problems                                  | RT            | dopamine                                 |          | neutral atoms                                       |
|                | production                                |               | ganglia information processing (biology) |          | particles   |
| neural r       | nets                                      |               | ion channels (biology)                   |          | pion beams  |
| GS             | networks                                  |               | ontogeny                                 |          | haim.lation   |
|                | . neural nets                             |               | psychotropic drugs                       |          | buoyancy simulation                                 |
| RT             | associative memory                        | ~             | science                                  | GS       | environmental tests . underwater tests              |
|                | backpropagation (artificial intelligence) |               |  |          | . neutral buoyancy simulation                       |
|                | belief networks                           |               | sychiatry                                |          | simulation  |
|                | cybernetics<br>evolvable hardware         | GS            |  |          | . environment simulation                            |
|                | Gabor filters                             |               | . psychiatry                             |          | space environment simulation                        |
|                | genetic algorithms                        | RT            | neuropsychiatry<br>human behavior        |          | weightlessness simulation                           |
|                | logic circuits                            |               | medicine                                 |          | neutral buoyancy simulation                         |
|                | membership functions                      |               | mental health                            | RT       | buoyancy  |
|                |   |               | nervous system                           |          | space simulators                                    |
| neurast        |   |               | neurology                                |          | weightlessness                                      |
| GS             | diseases                                  |               | psychotherapy                            | neutral  | currents  |
| RT             | . neurasthenia                            |               |  |          | Weak interaction currents that carry                |
| IXI            | nervous system                            | neurosc       |  |          | ectric charge.                                      |
| neuristo       | ors                                       | USE           | neurology                                | RT       | current distribution                                |
|                | electronic equipment                      | neurose       | es                                       |          | gravitational collapse                              |
|                | . solid state devices                     | GS            | neuroses                                 |          | neutral particles                                   |
|                | semiconductor devices                     |               | . neurotic depression                    |          | neutrinos   |
|                | neuristors                                | RT            | fear                                     |          | neutron stars                                       |
| RT             | bionics                                   |               | fear of flying                           |          | particle interactions                               |
| no!ii          |   |               | psychoses                                |          | stellar evolution                                   |
| neuritis<br>GS | diseases                                  | nource        | nora                                     | neutral  | nases   |
| GS             | . neuritis                                | neuros;<br>GS | plants (botany)                          | DEF      | In astronomy, gas clouds of some                    |
| RT             | nerves                                    | 33            | . fungi                                  |          | which have not been ionized by hot                  |
|                | nervous system                            |               | . neurospora                             | stars.   | 2, 101  |
|                | •   | RT            | genetics                                 | GS       | gases   |
| neurobl        |   |               |  |          | neutral gases                                       |
| GS             | cells (biology)                           |               | c depression                             | RT       | cosmic gases  |
|                | . neurons                                 | GS            | neuroses                                 |          | H I regions   |
|                |   |               |  |          |   |

### neutral particles

hydrogen clouds interplanetary gas interstellar gas ionized gases neutral atmospheres neutral atoms plasmas (physics)

#### neutral particles

GS particles

neutral particles

. . gravitinos

. . neutrons

... cold neutrons

. . . fast neutrons

. . . photoneutrons

. . . solar neutrons

. . thermal neutrons RT electron recombination

neutral currents

#### neutral sheets

RT atmospheric physics charged particles Earth magnetosphere particle motion plasma physics ∞ sheets

#### neutralizers

RT additives ∞ agents buffers (chemistry) dischargers inhibitors preservatives retardants stabilizers (agents)

suppressors

#### neutrino beams

DEF Organized collections of neutrinos traveling outward from the source.

GS beams (radiation) . particle beams . . neutrino beams

#### neutrinos

DEF Subatomic particles of zero, or near zero, rest mass, having no electric charge, pos-tulated by Fermi (1934) in order to explain apparent contradictions to the law of conservation of energy in beta particle emission.

particles GS

. elementary particles

. . fermions

... leptons

. . . . neutrinos

. solar neutrinos

RT antineutrinos dark matter gravitinos neutral currents

#### neutron absorbers

GS absorbers (materials)

. neutron absorbers

control rods moderators

poisoning (reaction inhibition) radiation absorption radiation shielding

neutron activation analysis

activation analysis

. neutron activation analysis chemical tests

. chemical analysis

. neutron activation analysis

mass spectrometers microanalysis qualitative analysis quantitative analysis spectroscopic analysis

#### neutron beams

beams (radiation) GS . particle beams . . neutral beams

... neutron beams

nuclear radiation

neutron beams

RT atomic beams particles pion beams proton beams

#### neutron counters

neutron detectors GS measuring instruments

. counters

. . radiation counters

... neutron counters

. neutron spectrometers

radiation measuring instruments . . radiation counters

... neutron counters

. . neutron spectrometers

dosimeters Geiger counters ionization chambers proportional counters scintillation counters spark chambers

#### neutron cross sections

RT absorption cross sections ∞ cross sections nuclear particles scattering cross sections stopping power

#### neutron decay

GS decay

. particle decay

. neutron decay

RT hot atoms

neutron detectors

USE neutron counters

#### neutron diffraction

diffraction GS

neutron diffraction

crystallography

### neutron distribution

GS distribution (property) . neutron distribution nuclear particles

### neutron emission

GS decay

. radioactive decay

. . neutron emission

emission

. particle emission

. neutron emission

nuclear reactions

. radioactive decay

. neutron emission

neutrons

selection rules (nuclear physics)

neutron flux

USE flux (rate)

#### neutron flux density

(LIMITED TO NEUTRON EMISSION OR DETECTION RATE PER UNIT AREA)
A measure of the intensity of neutron

radiation within a given range of neutron energies; the product of the neutron density and velocity, measured in neutrons per square meter-second or neutrons per square centimeter-second.

GS rates (per time)

. flux density

. . radiant flux density

. . . particle flux density

. . . neutron flux density

high flux isotope reactors irradiance nuclear fission radiance radiancy radiation shielding

solar neutrons

### neutron irradiation

GS irradiation

. neutron irradiation

ion irradiation

neutron transmutation doping transmutation

#### neutron physics

RT ∞ physics ∞ science

neutron radiography

DEF Nondestructive testing and inspection utilizing neutron beams from nuclear reactors, particle accelerators, and/or radioisotopes. Imagery displaying structural defects utilizes neutron image recorders or screens.

imagery

. radiography

neutron radiography nondestructive tests

. neutron radiography

RT ∞ materials tests

#### neutron scattering

Legendre code GS nuclear reactions . nuclear scattering .. neutron scattering

scattering

. nuclear scattering

. . neutron scattering
RT elementary particles nuclear particles resonance scattering

#### neutron sources

GS radiation sources

neutron sources

linear accelerators nuclear fuels

nuclear research and test reactors

particle accelerators

spent fuels

### neutron spectra

GS spectra

. energy spectra

.. neutron spectra

#### neutron spectrometers

UF triple axis spectrometers

measuring instruments

. counters

. . radiation counters

... neutron counters

. neutron spectrometers

radiation measuring instruments

. . radiation counters ... neutron counters

.... neutron spectrometers

. spectrometers

.. neutron spectrometers

#### neutron stars

(EXCLUDES TRACKS OF PARTICLES EMANATING FROM A NUCLEAR COLLISION) SN

celestial bodies

. stars

.. neutron stars

. . . magnetars . . . pulsars

. soft gamma repeaters

degenerate matter gravitational binding energy gravitational lenses neutral currents starquakes

supernova remnants x ray binaries x ray stars

#### neutron thermalization

energy absorption

. moderation (energy absorption)

... thermalization (energy absorption)

#### ... neutron thermalization

neutron transmutation USE nuclear reactions

#### neutron transmutation doping

(added June 2003)

DEF A doping technique for creating impurity isotopes from the host atoms of a material through the use of thermal neutron irradiation and subsequent radioactive decay

GS doping (materials)

. neutron transmutation doping

additives doped crystals neutron irradiation transmutation

DEF Subatomic particles with no electric charge, and with a mass of 1. 67482 times 10 to the minus 24 gram.

GS particles

. elementary particles

. . fermions

... neutrons

... cold neutrons

. . . . fast neutrons

.... photoneutrons

. . . . solar neutrons

. . . . thermal neutrons

. neutral particles

. . neutrons

... cold neutrons

. . . fast neutrons ... photoneutrons

. . . solar neutrons

. . thermal neutrons

barvons

chain reactions (nuclear physics)

charged particles

corpuscular radiation

cosmic rays

neutron emission nuclear radiation

nuclei (nuclear physics)

nucleon potential

nucleons

radiation effects

radiation shielding

#### neutrophils

(added August 2004)

Granular leukocytes having a nucleus with three to five lobes connected by slender threads of chromatin, and cytoplasm containing fine inconspicuous grnules and stainable by neutral dyes.

GS cells (biology)

. blood cells

. . leukocytes

.. neutrophils

chromatin

cytoplasm immune systems

#### Nevada

nations

. United States

. Nevada

Great Basin (US) Lake Tahoe (CA-NV) Pyramid Lake (NV) Southern California

#### New Brunswick

GS nations

. Canada

. . New Brunswick

### New England (US)

GS regions

New England (US)

United States

#### New Guinea (island)

landforms GS

. islands

. . Pacific islands

... New Guinea (island)

RT Papua New Guinea Torres Strait

#### **New Hampshire**

GS nations

. United States

**New Hampshire** 

RT St Lawrence Valley (North America)

#### New Haven (CT)

cities GS

New Haven (CT)

Connecticut

#### **New Horizons mission**

(added January 2006)

DEF Flyby mission to study the composition, geology, and morphology of Pluto and its moon Charon; search for rings and additional satellites around Pluto; and to conduct similar investigations of one or more Kuiper Belt Ob-

GS programs

. NASA programs

. . NASA space programs

... New Horizons mission

. space programs

. . NASA space programs

... New Horizons mission

space missions

. flyby missions

New Horizons mission

asteroid missions Charon

Kuiper belt

Pluto (planet)

space exploration

#### **New Jersey**

GS nations

. United States

. New Jersey

Delaware Bay (US)

Delaware River Basin (US) Hudson River (NY-NJ)

#### **New Mexico**

GS nations

. United States

New Mexico

Colorado Plateau (US) Rio Grande (North America)

#### **NEW MOONS project**

GS programs

. NASA programs

.. NASA space programs ... NEW MOONS project

. projects

. NEW MOONS project

. space programs

. . NASA space programs . . . NEW MOONS project

nuclear propulsion structural weight weight analysis

#### New York

GS nations

. United States

. New York

RT Adirondack Mountains (NY) Delaware River Basin (US)

Hudson River (NY-NJ) Lake Champlain Basin (NY-VT)

Long Island (NY)

New York City (NY)

St Lawrence Valley (North America) Susquehanna River Basin (MD-NY-PA)

### New York City (NY)

GS cities

New York City (NY)

RT New York

#### **New Zealand**

GS landforms

. islands

Pacific islands

#### .. New Zealand

nations

**New Zealand** 

New Zealand space program

### New Zealand space program

(added June 1989)

programs

. space programs

New Zealand space program

RT New Zealand

#### Newfoundland

landforms GS

. islands

. . Newfoundland

nations

. Canada

. . Newfoundland

#### news

RT documentation

#### news media

data acquisition information

Internet resources

∞ journals

The unit of force in the SI system; that force which gives to a mass of I kilogram an acceleration of 1 meter per second squared.

RT ∞ force

kinetics

Newtonian fluids nonNewtonian fluids

Newton methods GS analysis (mathematics)

. numerical analysis

. . approximation

... Newton methods ... Newton-Raphson method

. . iteration

... Newton methods

. Newton-Raphson method

RT iterative solution problem solving roots of equations

# Newton pressure law

GS

laws Newton pressure law

compressible flow laminar flow Newtonian fluids Prandtl-Meyer expansion

# pressure distribution

pressure

Newton second law

GS kinetics

Newton second law laws

. Newton second law conservation

momentum theory

**Newton Theory** 

GS kinetics . Newton Theory theoretical physics

**Newton Theory** conservation laws Newtonian fluids

nonNewtonian fluids

nonrelativistic mechanics ∞ theories

### Newton-Busemann law

GS laws

. Newton-Busemann law

#### **Newtonian fluids**

RT anisotropic fluids ∞ fluids

> Navier-Stokes equation newton

Newton pressure law

Newton Theory

nonNewtonian fluids stress-strain-time relations viscous fluids

#### Newton-Raphson method

GS analysis (mathematics)

- . numerical analysis
- . . approximation
- ... Newton methods
- . . Newton-Raphson method
- iteration
- . . . Newton methods
- . . . Newton-Raphson method

RT ∞ methodology

#### Next Generation Space Telescope project (added December 1999)

DEF Project in the NASA Origins program with the goal of developing a spaceborne observatory to succeed the Hubble Space Telescope after 2005. The telescope is foreseen to have an aperture of 8 meters and be optimized for near infrared wavelengths (0. 6-10+ microns) in order to enable the exploration of the most remote high redshift universe.

NGST project GS programs . projects

#### . Next Generation Space Telescope project

astronomical observatories infrared telescopes James Webb Space Telescope NASA space programs spaceborne telescopes

NGST project

(added December 1999)

USE Next Generation Space Telescope project

#### Nicaragua

GS nations

Nicaragua

Central America

### Nichrome (trademark)

GS alloys

. nickel alloys

. Nichrome (trademark)

#### nickel

chemical elements GS

. nickel

. . nickel isotopes metals

. transition metals

. . nickel

. . nickel isotopes

RT constantan

#### nickel allovs

GS alloys

#### . nickel alloys

Astroloy (trademark)

Hastelloy (trademark)

Inconel (trademark)

kamacite

Monel (trademark)

Nichrome (trademark)

nitinol alloys

Rene 41

Rene 63

Rene 77

Rene 95

Udimet alloys Waspaloy

aluminides

gold alloys

heat resistant alloys

nickel aluminides

nimonic alloys

Permalloys (trademark) shape memory alloys

silicon alloys stainless steels sulfidation

#### nickel aluminides

(added June 1997)

GS aluminum compounds

. aluminides

. nickel aluminides

nickel compounds . nickel aluminides

intermetallics nickel alloys

#### nickel cadmium batteries

DEF Alkaline storage batteries in which the positive active material is nickel oxide and the negative contains cadmium.

cadmium nickel batteries

electrochemical cells GS

. electric batteries

. . storage batteries

. nickel cadmium batteries

dry cells

silver cadmium batteries

#### nickel coatings

coatings GS

. metal coatings

. . nickel coatings

corrosion prevention metal films protective coatings

#### nickel compounds

nickel compounds

. cohenite

. nickel aluminides

. nickel fluorides

. nickel oxides

. schreibersite

RT ∞ chemical compounds

∞ Group 8 compounds

∞ metal compounds

#### nickel fluorides

halogen compounds GS

. fluorine compounds

. . fluorides

. . . metal fluorides . nickel fluorides

. halides

. . fluorides

. . . metal fluorides

.... nickel fluorides

. . metal halides

. . . metal fluorides

. nickel fluorides

nickel compounds

. nickel fluorides

#### nickel hydrogen batteries

electrochemical cells

. electric batteries

. . storage batteries

. nickel hydrogen batteries

energy storage

hydrogen-based energy spacecraft power supplies

### nickel iron batteries

Alkaline-type electric cells using potassium hydroxide as the electrolyte and anodes of steel wool substrate with active iron material and cathodes of nickel plated steel wool substrate with active nickel material.

GS electrochemical cells

. electric batteries

. nickel iron batteries

lead acid batteries nickel zinc batteries storage batteries

#### nickel isotopes

GS chemical elements

. nickel

.. nickel isotopes

. nuclides . . isotopes

.. nickel isotopes

metals

. transition metals

. . nickel

#### ... nickel isotopes

#### nickel oxides

GS chalcogenides

. oxides

. . metal oxides

nickel oxides nickel compounds

. nickel oxides

#### nickel plate

plating GS

nickel plate electroplating

gold coatings

### nickel steels

Steels containing nickel as a main alloying element.

alloys

. iron alloys

. . steels

. . nickel steels

stainless steels

### nickel zinc batteries

zinc nickel batteries

electric generators

. direct power generators

. . primary batteries

. . . dry cells . . nickel zinc batteries

electrochemical cells . electric batteries

. . primary batteries

... dry cells . nickel zinc batteries

. . storage batteries

. . nickel zinc batteries

RT nickel iron batteries

### nicotinamide

GS bases (chemical)

. alkaloids . . nicotinamide

nitrogen compounds

. alkaloids . . nicotinamide

. amides

. nicotinamide organic compounds

. cyclic compounds

. . heterocyclic compounds

. . . alkaloids .... nicotinamide

vitamins

. nicotinamide

nicotine GS bases (chemical)

. alkaloids . . nicotine

nitrogen compounds . alkaloids

. nicotine

organic compounds . cyclic compounds

. . heterocyclic compounds . . . alkaloids

nicotine tobacco

# RT

nicotinic acid GS acids

. carboxylic acids . nicotinic acid

organic compounds

. carboxylic acids .. nicotinic acid

. nicotinic acid

. cyclic compounds . heterocyclic compounds

... nicotinic acid vitamins

## Niger

nations

. Niger

| RT            | Africa   | . microwave tubes   |          | Nike rocket vehicles                                 |
|---------------|--|---|----------|--|
|               |  | magnetrons  |          | Nike-Apache rocket vehicle                           |
| Nigeria<br>GS | nations  | <b>nigotrons</b><br>oscillators                             | RT       | solid propellant rocket engines                      |
| GS            | . Nigeria                                      | . microwave oscillators                                     | Nike-Ca  | ajun rocket vehicle                                  |
| RT            | Africa   | magnetrons  |          | rocket vehicles                                      |
|               |  | nigotrons   |          | . multistage rocket vehicles                         |
| night         |  | - AUI   |          | Nike rocket vehicles                                 |
| RT            | darkening                                      | <b>Nihon aircraft</b><br>UF <i>NAMC aircraft</i>            | DT       | Nike-Cajun rocket vehicle                            |
|               | darkness<br>daytime                            | GS <b>Nihon aircraft</b>                                    | RI       | Cajun rocket vehicle solid propellant rocket engines |
|               | diurnal variations                             | . YS-11 aircraft  |          | solid propellant rocket engines                      |
|               | evening  | RT ∞ aircraft   | Nike-He  | ercules missile                                      |
|               | shadows  | NII VO 11 1 6   | GS       | missiles   |
|               | sky brightness                                 | Nihon YS-11 aircraft<br>USE <b>YS-11 aircraft</b>           |          | . antiaircraft missiles                              |
|               | twilight glow                                  | USE 19-11 difcidit  |          | Nike-Hercules missile . surface to air missiles      |
| night air     | alow   | Nike booster rocket engines                                 |          | . Nike missiles                                      |
|               | nightglow                                      | GS engines  |          | Nike-Hercules missile                                |
|               |  | . rocket engines  | RT       | solid propellant rocket engines                      |
| night E       |  | booster rocket engines                                      | NP1 - 11 | The second of the second                             |
| USE           | E region<br>night sky                          | Nike booster rocket engines solid propellant rocket engines |          | /dac rocket vehicle<br>rocket vehicles               |
|               | night sky                                      | Nike booster rocket engines                                 | GS       | . multistage rocket vehicles                         |
| night F       | 'ayer  | RT ∞ Nike rockets   |          | Nike rocket vehicles                                 |
| ÜSE           | F region                                       |   |          | Nike-Hydac rocket vehicle                            |
|               | night sky                                      | Nike missiles   | RT o     | ∞ vehicles   |
| niaht fli     | ahta (airaraft)                                | GS missiles . surface to air missiles                       | Niles In | ili-tbiala   |
|               | ghts (aircraft)<br>aircraft                    | . Nike missiles   |          | oquois rocket vehicle<br>rocket vehicles             |
| 101           | approach control                               | Nike-Ajax missile   | 93       | . multistage rocket vehicles                         |
|               | blind landing                                  | Nike-Hercules missile                                       |          | . Nike rocket vehicles                               |
|               | darkness                                       | Nike-Zeus missile   |          | Nike-Iroquois rocket vehicle                         |
|               | flight instruments                             | RT antiaircraft missiles                                    | RT o     | ∞ vehicles   |
|               | instrument approach instrument landing systems | antimissile missiles<br>∞ Nike rockets                      | Nilsa la | walin raakat wahiala                                 |
|               | nap-of-the-earth navigation                    | Sentinel system   |          | velin rocket vehicle<br>rocket vehicles              |
|               | radar  | Continor System   | 00       | . multistage rocket vehicles                         |
|               | radio beacons                                  | Nike project  |          | . Nike rocket vehicles                               |
|               | visibility                                     | GS programs   |          | Nike-Javelin rocket vehicle                          |
|               |  | . projects  | RT       | solid propellant rocket engines                      |
| night sl      | k <b>y</b><br>night E layer                    | <b>Nike project</b><br>RT ∞ Nike rockets                    |          | sounding rockets                                     |
| UF            | night F layer                                  | IX I ∞ ININE TOUNEIS  | Nike-To  | mahawk rocket vehicle                                |
| GS            | sky  | Nike rocket vehicles  | GS       | rocket vehicles                                      |
|               | . night sky                                    | GS rocket vehicles  |          | . multistage rocket vehicles                         |
| RT            | airglow  | . multistage rocket vehicles                                |          | Nike rocket vehicles                                 |
|               | auroras  | . Nike rocket vehicles                                      | D.T.     | Nike-Tomahawk rocket vehicle                         |
|               | gegenschein                                    | Nike-Apache rocket vehicle Nike-Cajun rocket vehicle        | RT       | solid propellant rocket engines                      |
|               | nightglow<br>sky brightness                    | Nike-Hydac rocket vehicle                                   | Nike-7e  | eus missile  |
|               | twilight glow                                  | Nike-Iroquois rocket vehicle                                | UF       |  |
|               | zodiacal light                                 | Nike-Javelin rocket vehicle                                 | GS       | missiles   |
|               |  | Nike-Tomahawk rocket vehicle                                |          | . antimissile missiles                               |
| night vi      |  | RT ∞ Nike rockets   |          | Nike-Zeus missile                                    |
| GS            | vision   | ∞ vehicles  |          | . surface to air missiles Nike missiles              |
| RT            | . <b>night vision</b><br>dark adaptation       | Nike rockets  |          | Nike-Zeus missile                                    |
|               | enhanced vision                                | SN (USE OF A MORE SPECIFIC TERM IS                          | RT       | solid propellant rocket engines                      |
|               | image intensifiers                             | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)               |          | Spartan missile                                      |
|               | light adaptation                               | RT Nike booster rocket engines                              |          | Sprint missile                                       |
|               | microchannels                                  | Nike missiles   |          | tratica alacula                                      |
|               | nap-of-the-earth navigation                    | Nike project<br>Nike rocket vehicles                        | UF       | stratus clouds<br>nimbus clouds                      |
| nightglo      | ow .   | Nike rocket venicles  | GS       | clouds (meteorology)                                 |
| UF            | night airglow                                  | Nike X systems  |          | . nimbostratus clouds                                |
| GS            | atmospheric radiation                          | GS weapon systems   | RT       | cumulonimbus clouds                                  |
|               | . sky radiation                                | . missile systems   |          | precipitation (meteorology)                          |
|               | airglow<br><b>nightglow</b>                    | Nike X systems  |          | stratus clouds                                       |
|               | electromagnetic radiation                      | RT antimissile missiles missiles                            | Nimbus   | s 1 satellite  |
|               | . light (visible radiation)                    | surface to air missiles                                     | GS       | artificial satellites                                |
|               | sky radiation                                  | ∞ systems   |          | . meteorological satellites                          |
|               | airglow  | •   |          | Nimbus satellites                                    |
| ОТ            | nightglow                                      | Nike-Ajax missile   | DT       | Nimbus 1 satellite                                   |
| RT            | biometeorology<br>night sky                    | GS missiles . antiaircraft missiles                         | RT       | cloud photography Thor Agena launch vehicle          |
|               | radio auroras                                  | . Nike-Ajax missile   |          | The Agena launell verile                             |
|               | sky brightness                                 | . surface to air missiles                                   | Nimbus   | s 2 satellite  |
|               |  | Nike missiles   | GS       |  |
| nigotro       |  | Nike-Ajax missile   |          | . meteorological satellites                          |
| GS            | electron tubes                                 | RT Argo rocket vehicles                                     |          | . Nimbus satellites                                  |
|               | . vacuum tubes microwave tubes                 | EXOS sounding rocket<br>liquid propellant rocket engines    | RT       | Nimbus 2 satellite cloud photography                 |
|               | magnetrons                                     | solid propellant rocket engines                             | 17.1     | Thor Agena launch vehicle                            |
|               | nigotrons                                      | Trailblazer 1 reentry vehicle                               |          | <u> </u>   |
|               | microwave equipment                            | ·   |          | s 3 satellite  |
|               | . microwave oscillators                        | Nike-Apache rocket vehicle                                  | GS       | artificial satellites                                |
|               | magnetrons                                     | GS rocket vehicles  |          | . meteorological satellites Nimbus satellites        |
|               | nigotrons                                      | . multistage rocket vehicles                                |          | INITIDUS SALEIIILES                                  |

| Nimbus 3 satellite                              | niobium 95   | niobium 95                                  |
|---|--|---|
|   | metals   | metals                                      |
| Nimbus 4 satellite  GS artificial satellites    | . refractory metals                                | . refractory metals                         |
| . meteorological satellites                     | <b>niobium</b><br>niobium isotopes                 | niobium<br><b>niobium isotopes</b>          |
| Nimbus satellites                               | niobium 95   | niobium 95                                  |
| Nimbus 4 satellite                              | . transition metals                                | . transition metals                         |
| Nimbus 5 satellite                              | niobium  | niobium                                     |
| GS artificial satellites                        | niobium isotopes<br>niobium 95                     | <b>niobium isotopes</b><br>niobium 95       |
| . meteorological satellites                     | refractory materials                               | refractory materials                        |
| Nimbus satellites                               | . refractory metals                                | . refractory metals                         |
| Nimbus 5 satellite                              | niobium  | niobium                                     |
| Nimbus 6 satellite                              | niobium isotopes                                   | niobium isotopes                            |
| GS artificial satellites                        | niobium 95   | niobium 95                                  |
| . meteorological satellites                     | niobium 95   | niobium oxides                              |
| Nimbus satellites<br>Nimbus 6 satellite         | GS chemical elements                               | GS chalcogenides                            |
| Nillibus o satellite                            | . niobium  | . oxides                                    |
| Nimbus 7 satellite                              | niobium isotopes<br><b>niobium 95</b>              | metal oxides<br><b>niobium oxides</b>       |
| DEF One in a series of meteorological sat-      | . nuclides   | niobium compounds                           |
| ellites. GS artificial satellites               | isotopes   | . niobium oxides                            |
| . meteorological satellites                     | niobium isotopes<br><b>niobium 95</b>              |   |
| Nimbus satellites                               | radioactive isotopes                               | niobium stannides                           |
| Nimbus 7 satellite                              | niobium 95   | GS niobium compounds                        |
| RT Total Ozone Mapping Spectrometer             | metals   | . <b>niobium stannides</b><br>tin compounds |
| nimbus clouds                                   | . refractory metals                                | . stannides                                 |
| USE nimbostratus clouds                         | niobium<br>niobium isotopes                        | niobium stannides                           |
| Nimbus project                                  | niobium 95   |   |
| GS programs                                     | . transition metals                                | NIPS (system)                               |
| . NASA programs                                 | niobium  | USE NASA Interactive Planning System        |
| NASA space programs                             | niobium isotopes<br><b>niobium 95</b>              | nitinol alloys                              |
| Nimbus project<br>. projects                    | refractory materials                               | DEF Shape memory alloys of titanium and     |
| . Nimbus project                                | refractory metals                                  | nickel.                                     |
| . space programs                                | niobium  | GS alloys<br>. nickel alloys                |
| NASA space programs                             | niobium isotopes<br><b>niobium 95</b>              | nitinol alloys                              |
| <b>Nimbus project</b><br>RT cloud photography   |  | . shape memory alloys                       |
| meteorological satellites                       | niobium alloys                                     | nitinol alloys                              |
| satellite observation                           | GS alloys . heat resistant alloys                  | . titanium alloys<br><b>nitinol alloys</b>  |
| Nimbus satellites                               | refractory metal alloys                            | ferroelastic materials                      |
| GS artificial satellites                        | niobium alloys                                     | . shape memory alloys                       |
| . meteorological satellites                     | refractory materials                               | nitinol alloys                              |
| . Nimbus satellites                             | . refractory metal alloys<br><b>niobium alloys</b> | nitramine propellants                       |
| Nimbus 1 satellite<br>Nimbus 2 satellite        | RT hafnium alloys                                  | GS propellants                              |
| Nimbus 3 satellite                              | ·  | . rocket propellants                        |
| Nimbus 4 satellite                              | niobium carbides                                   | nitramine propellants                       |
| Nimbus 5 satellite                              | GS carbon compounds . carbides                     | . solid propellants nitramine propellants   |
| Nimbus 6 satellite<br>Nimbus 7 satellite        | niobium carbides                                   | RT oxidizers                                |
| RT cloud photography                            | niobium compounds                                  |   |
| ESSA satellites                                 | . niobium carbides                                 | nitrasol explosives                         |
| infrared photography                            | niobium compounds                                  | GS explosives                               |
| satellite observation Thor Agena launch vehicle | GS niobium compounds                               | . <b>nitrasol explosives</b><br>propellants |
| Thor Agena launch vehicle                       | . niobates   | . nitrasol explosives                       |
| nimonic alloys                                  | lithium niobates . niobium carbides                | ·   |
| GS alloys . heat resistant alloys               | . niobium iodides                                  | nitrate esters                              |
| . nimonic alloys                                | . niobium oxides                                   | GS esters                                   |
| RT iron alloys                                  | . niobium stannides                                | . <b>nitrate esters</b> isopropyl nitrate   |
| nickel alloys                                   | RT ∞ chemical compounds<br>∞ Group 5B compounds    | propyl nitrate                              |
| NIMPHE (engine)                                 | ∞ metal compounds                                  | nitrogen compounds                          |
| USE hydrazine engines                           | ·  | . nitrate esters                            |
| NP and be a beautiful and                       | niobium iodides                                    | isopropyl nitrate<br>propyl nitrate         |
| Nimrod accelerator  GS particle accelerators    | GS halogen compounds<br>. halides                  |   |
| . Nimrod accelerator                            | metal halides                                      | nitrates                                    |
| RT ∞ accelerators                               | niobium iodides                                    | GS nitrogen compounds                       |
| niobates  | . iodine compounds<br>iodides                      | . <b>nitrates</b><br>dinitrates             |
| GS niobium compounds                            | niobium iodides                                    | inorganic nitrates                          |
| niobates  | niobium compounds                                  | ammonium nitrates                           |
| lithium niobates                                | niobium iodides                                    | hydrazine nitrate                           |
| RT euxenite oxides                              | niobium isotopes                                   | potassium nitrates<br>silver nitrates       |
| ∞ oxygen compounds                              | GS chemical elements                               | sodium nitrates                             |
|   | . niobium  | methyl nitrate                              |
| niobium   | niobium isotopes                                   | organic nitrates                            |
| UF columbium GS chemical elements               | niobium 95<br>. nuclides                           | cellulose nitrate nitroforms                |
| . niobium                                       | . isotopes   | hydrazine nitroform                         |
| niobium isotopes                                | niobium isotopes                                   | nitroglycerin                               |

|                              | PEIN                                       | organic compounds                            | nitrogen isotopes           |
|------------------------------|--|--|-----------------------------|
| nitratio                     | n  | . amines                                     | nitrogen 15                 |
| GS                           | chemical reactions                         | nitroamines                                  | nitrogen 16                 |
| 00                           | . nitration                                | mil damines                                  | GS chemical elements        |
| RT                           | denitrogenation                            | nitrobacter                                  | . nitrogen                  |
|                              |  | GS microorganisms                            | nitrogen isotopes           |
| nitric a                     |  | . bacteria                                   | nitrogen 16                 |
| GS                           | acids                                      | nitrobacter                                  | . nuclides                  |
|                              | . nitric acid                              |  | isotopes                    |
|                              | nitrogen compounds                         | nitrobenzenes                                | nitrogen isotopes           |
|                              | . nitric acid                              | GS nitrogen compounds                        | nitrogen 16                 |
| RT                           | nitrous acid                               | . nitro compounds                            | radioactive isotopes        |
|                              |  | nitrobenzenes                                | nitrogen 16                 |
| nitric o                     |  | trinitrotoluene                              | gases                       |
| GS                           | chalcogenides                              |  | . nitrogen                  |
|                              | . oxides                                   | nitrocellulose                               | nitrogen isotopes           |
|                              | nitrogen oxides                            | USE cellulose nitrate                        | nitrogen 16                 |
|                              | nitric oxide                               |  |                             |
|                              | nitrogen compounds                         | nitrofluoramines                             | nitrogen atoms              |
|                              | . nitrogen oxides                          | GS halogen compounds                         | GS atoms                    |
|                              | . nitric oxide                             | . fluorine compounds                         | . nitrogen atoms            |
| RT                           | nitrosyls                                  | fluoro compounds                             | RT nitrogen                 |
| !!!                          | _  | fluorine organic compounds                   | nitrogen compounds          |
| nitrides                     |  | fluoroamines                                 | GS nitrogen compounds       |
| GS                           | nitrogen compounds                         | nitrofluoramines                             | . alkaloids                 |
|                              | . nitrides                                 | nitrogen compounds                           | . atropine                  |
|                              | boron nitrides                             | . nitrofluoramines                           | betaines                    |
|                              | metal nitrides                             | organic compounds                            | caffeine                    |
|                              | aluminum nitrides                          | . amines                                     | colchicine                  |
|                              | beryllium nitrides                         | fluoroamines                                 | ergotamine                  |
|                              | gallium nitrides                           | nitrofluoramines                             | ergotamine<br>hyoscine      |
|                              | tantalum nitrides titanium nitrides        | . fluorine organic compounds<br>fluoroamines | lysergine                   |
|                              | zirconium nitrides                         | nitrofluoramines                             | morphine                    |
|                              | carbon nitrides                            | Illuoliuorallilles                           | nicotinamide                |
|                              |  | nitroformates                                | nicotine                    |
|                              | oxynitrides<br>silicon nitrides            | GS formates                                  | pilocarpine                 |
| RT                           | ceramic nuclear fuels                      | . nitroformates                              | reserpine                   |
| IXI                          | molten salts                               | nitrogen compounds                           | strychnine                  |
|                              | monen sans                                 | . nitroformates                              | tropyl compounds            |
| nitridin                     | a  | . Introformates                              | . amides                    |
| GS                           | chemical reactions                         | nitroforms                                   | acetanilide                 |
| 00                           | . nitriding                                | GS esters                                    | acetazolamide               |
|                              | hardening (materials)                      | . organic nitrates                           | carbamides                  |
|                              | . nitriding                                | nitroforms                                   | cyanamides                  |
|                              | heat treatment                             | hydrazine nitroform                          | formhydroxamic acid         |
|                              | . nitriding                                | nitrogen compounds                           | nicotinamide                |
|                              | · mananig                                  | . nitrates                                   | oxamic acids                |
| nitriles                     |  | organic nitrates                             | polvimides                  |
| GS                           | nitrogen compounds                         | nitroforms                                   | bismaleimide                |
|                              | nitriles                                   | hydrazine nitroform                          | Kapton (trademark)          |
|                              | acetonitrile                               | •  | succinimides                |
|                              | acrylonitriles                             | nitrogen                                     | ureas                       |
|                              | polyacrylonitrile                          | GS chemical elements                         | difluorourea                |
|                              | malononitrile                              | . nitrogen                                   | thioureas                   |
|                              | phosphonitriles                            | liquid nitrogen                              | thiuronium                  |
|                              | . succinonitrile                           | nitrogen isotopes                            | . ammonia                   |
|                              | organic compounds                          | nitrogen 15                                  | liquid ammonia              |
|                              | . nitriles                                 | nitrogen 16                                  | azides (inorganic)          |
|                              | acetonitrile                               | solid nitrogen                               | hydrogen azides             |
|                              | acrylonitriles                             | gases  | sodium azides               |
|                              | polyacrylonitrile                          | . nitrogen                                   | . azides (organic)          |
|                              | malononitrile                              | liquid nitrogen                              | sodium azides               |
|                              | phosphonitriles                            | nitrogen isotopes                            | triaminoguanidinium azide   |
|                              | succinonitrile                             | nitrogen 15                                  | . azo compounds             |
| RT                           | cyano compounds                            | nitrogen 16                                  | HMX                         |
|                              |  | solid nitrogen                               | RDX                         |
| nitrites                     |  | RT Kjeldahl method                           | . cyano compounds           |
| GS                           | nitrogen compounds                         | nitrogen atoms                               | cyanamides                  |
|                              | . nitrites                                 | nitrogen ions                                | cyanoacetylene              |
|                              |  | nitrogen lasers                              | isocyanates                 |
|                              | ompounds                                   | nitrogenation                                | diisocyanates               |
| GS                           | nitrogen compounds                         | nitrolysis                                   | fulminates                  |
|                              | nitro compounds                            | reaction bonding                             | . folic acid                |
|                              | nitrobenzenes                              | sialon                                       | . hydrazinium compounds     |
|                              | trinitrotoluene                            | Vegard-Kaplan bands                          | . hydrazoic acid            |
|                              | nitroglycerin                              | Wolf-Rayet stars                             | . hydrazones                |
|                              | nitroguanidine                             |  | . hydrocyanic acid          |
|                              | nitromethane                               | nitrogen 15                                  | . imides                    |
|                              | nitropropane                               | GS chemical elements                         | bismaleimide                |
|                              | . picrates                                 | . nitrogen                                   | phthalimides                |
|                              | ammonium picrates                          | nitrogen isotopes                            | succinimides                |
|                              | polybutadiene tetranitramine               | nitrogen 15                                  | . imines                    |
|                              | tetryl                                     | . nuclides                                   | . nitrate esters            |
|                              |  |  | isopropyl nitrate           |
| _                            | trinitro compounds                         | isotopes                                     |                             |
| RT o                         | trinitro compounds<br>∞ chemical compounds | nitrogen isotopes                            | propyl nitrate              |
|                              | ∞ chemical compounds                       | nitrogen isotopes<br><b>nitrogen 15</b>      | . propyl nitrate . nitrates |
| RT ∘<br><b>nitroan</b><br>GS | ∞ chemical compounds                       | nitrogen isotopes                            | propyl nitrate              |

| ammonium nitrates                     |          | . nitrogen oxides                    |                | photochemical oxidants                          |
|---------------------------------------|----------|--------------------------------------|----------------|---|
| hydrazine nitrate                     |          | nitrogen dioxide                     | nitrogo        | n plasma  |
| potassium nitrates<br>silver nitrates | nitrogon | fivation                             |                | particles                                       |
| sodium nitrates                       | nitrogen | nitrogenation                        | 00             | . charged particles                             |
| methyl nitrate                        | USL      | Illitogenation                       |                | energetic particles                             |
| organic nitrates                      | nitrogen | fluorides                            |                | plasmas (physics)                               |
| cellulose nitrate                     |          | halogen compounds                    |                | nitrogen plasma                                 |
| nitroforms                            |          | . fluorine compounds                 |                | . corpuscular radiation                         |
| hydrazine nitroform                   |          | fluorides                            |                | energetic particles                             |
| nitroglycerin                         |          | nitrogen fluorides                   |                | plasmas (physics)                               |
| PETN                                  |          | . halides                            |                | nitrogen plasma                                 |
| . nitric acid                         |          | fluorides                            |                |   |
| . nitrides                            |          | nitrogen fluorides                   |                | n polymers                                      |
| boron nitrides                        |          | nitrogen compounds                   | GS             | nitrogen compounds                              |
| metal nitrides                        |          | . nitrogen fluorides                 |                | nitrogen polymers                               |
| aluminum nitrides                     |          |                                      |                | polyacrylonitrile                               |
| beryllium nitrides                    | nitrogen | hydrides                             |                | polybenzimidazole                               |
| gallium nitrides                      | GS       | hydrogen compounds                   |                | polybutadiene tetranitramine                    |
| tantalum nitrides                     |          | . hydrides                           |                | Pyrrones (trademark)                            |
| titanium nitrides                     |          | nitrogen hydrides                    | RI∝            | o polymers                                      |
| zirconium nitrides                    |          | amino radical                        |                | n totrovido                                     |
| carbon nitrides                       |          | nitrogen compounds                   |                | n tetroxide                                     |
| oxynitrides                           |          | . nitrogen hydrides                  | GS             | chalcogenides<br>. oxides                       |
| silicon nitrides                      |          | amino radical                        |                |   |
| . nitrites                            |          | ammonia                              |                | nitrogen oxides                                 |
| . nitro compounds                     |          | hydrazoic acid                       |                | <b>nitrogen tetroxide</b><br>nitrogen compounds |
| nitrobenzenes                         |          |                                      |                | . nitrogen oxides                               |
| trinitrotoluene                       | nitrogen |                                      |                | nitrogen tetroxide                              |
| nitroglycerin                         | GS       | ions                                 | RT             | liquid rocket propellants                       |
| nitroguanidine                        |          | . nitrogen ions                      | IXI            | rocket oxidizers                                |
| nitromethane                          |          | negative ions                        |                | Tocket Oxidizers                                |
| nitropropane                          |          | nitrogen                             | nitrogei       | nation  |
| picrates                              |          |                                      | UF             | nitrogen fixation                               |
| ammonium picrates                     |          | isotopes                             | GS             | chemical reactions                              |
| polybutadiene tetranitramine          |          | chemical elements                    | 00             | . nitrogenation                                 |
| tetryl                                |          | . nitrogen                           | RT             | leguminous plants                               |
| trinitro compounds . nitroamines      |          | . nitrogen isotopes                  |                | lightning                                       |
| . nitrofluoramines                    |          | nitrogen 15                          |                | nitrogen  |
| . nitroformates                       |          | nitrogen 16                          |                | 9   |
| . nitrogen fluorides                  |          | . nuclides                           | nitrogly       | cerin   |
| . nitrogen hydrides                   |          | isotopes                             | GŠ             | esters  |
| amino radical                         |          | nitrogen isotopes                    |                | . organic nitrates                              |
| . nitrogen oxides                     |          | nitrogen 15                          |                | nitroglycerin                                   |
| nitric oxide                          |          | nitrogen 16                          |                | nitrogen compounds                              |
| nitrogen dioxide                      |          | gases                                |                | . nitrates                                      |
| nitrogen tetroxide                    |          | . nitrogen                           |                | organic nitrates                                |
| nitrous oxides                        |          | nitrogen isotopes                    |                | nitroglycerin                                   |
| . nitrogen polymers                   |          | nitrogen 15                          |                | . nitro compounds                               |
| polyacrylonitrile                     |          | nitrogen 16                          |                | nitroglycerin                                   |
| polybenzimidazole                     | nitrogen | lacore                               | RT             | double base propellants                         |
| polybutadiene tetranitramine          | DEF      | Stimulated emission devices in which |                | double base rocket propellants                  |
| Pyrrones (trademark)                  |          | gen molecule is the lasing medium.   |                | dynamite  |
| . nitrosamine                         |          | stimulated emission devices          |                | explosives                                      |
| . nitroso compounds                   | 00       | . lasers                             |                | glycerides                                      |
| nitrosyls                             |          | gas lasers                           |                | glycerols                                       |
| nitrosyl chlorides                    |          | nitrogen lasers                      |                | anidin a  |
| . nitroxychlorides                    |          | lasing                               | nitrogu:<br>UF |   |
| . nitryl chlorides                    |          | nitrogen                             | GS             | HBNQ nitrogen compounds                         |
| . nitryl fluorides                    |          | population inversion                 | GS             | . nitro compounds                               |
| . quinoline                           |          | pulsed lasers                        |                | nitroguanidine                                  |
| . thiazine (trademark)                |          | ultraviolet lasers                   | RT             | explosives                                      |
| . thymine                             |          |                                      | 101            | solid propellants                               |
| . trinitramine                        | nitrogen | metabolism                           |                | coma proponanto                                 |
| . tryptophan                          |          | metabolism                           | nitrolys       | is  |
| . uracil                              |          | . nitrogen metabolism                | GS             | chemical reactions                              |
| . xanthines                           | RT       | biochemistry                         | 00             | . nitrolysis                                    |
| caffeine                              |          | biology                              |                | decomposition                                   |
| guanines                              |          | enzymology                           |                | . nitrolysis                                    |
| uric acid                             |          | hydrogen metabolism                  | RT             | cracking (chemical engineering                  |
| . nitriles                            |          | nutrition                            |                | nitrogen  |
| acetonitrile<br>acrylonitriles        |          |                                      |                | 3   |
| polyacrylonitrile                     | nitrogen | oxides                               | nitrome        | thane   |
| malononitrile                         | GS       | chalcogenides                        | GS             | nitrogen compounds                              |
| phosphonitriles                       |          | . oxides                             |                | nitro compounds                                 |
| succinonitrile                        |          | nitrogen oxides                      |                | nitromethane                                    |
| RT ∞ chemical compounds               |          | nitric oxide                         | RT             | BSX   |
| cyanides                              |          | nitrogen dioxide                     |                | explosives                                      |
| ∞ Group 5A compounds                  |          | nitrogen tetroxide                   |                |   |
| phosphazene                           |          | nitrous oxides                       |                | ım compounds                                    |
| F F                                   |          | nitrogen compounds                   | GS             | nitronium compounds                             |
|                                       |          | . nitrogen oxides                    |                | . nitronium perchlorate                         |
| nitrogen dioxide                      |          | nitric oxide                         | RT ∝           | chemical compounds                              |
| GS chalcogenides                      |          | nitrogen dioxide                     | _              |   |
| . oxides                              |          | nitrogen tetroxide                   |                | ım perchlorate                                  |
| nitrogen oxides                       |          | nitrous oxides                       | GS             | halogen compounds                               |
| nitrogen dioxide                      |          | nitrosyls                            |                | chlorine compounds                              |
| nitrogen compounds                    |          | nitrous acid                         |                | perchlorates                                    |

. . nitronium perchlorate nitronium compounds nitronium perchlorate RT rocket oxidizers

#### nitropropane

nitrogen compounds . nitro compounds . . nitropropane

organic compounds . hydrocarbons

. . aliphatic hydrocarbons

. . . alkanes

... nitropropane

propane

#### nitrosamine

GS nitrogen compounds . nitrosamine organic compounds . amines

.. nitrosamine

#### nitroso compounds

GS nitrogen compounds

. nitroso compounds

. . nitrosyls

. . nitrosyl chlorides

RT ∞ chemical compounds organic compounds

#### nitrosyl chlorides

GS halogen compounds

. chlorine compounds

. . chlorides

... nitrosyl chlorides

. halides

. . chlorides

... nitrosyl chlorides

. nitrosvls

. nitrosyl chlorides

nitrogen compounds . nitroso compounds

. . nitrosyls . . . nitrosyl chlorides

### nitrosvls

halogen compounds . **nitrosyls** GS

. . nitrosyl chlorides nitrogen compounds . nitroso compounds

nitrosyls

... nitrosyl chlorides

amines esters halides nitric oxide nitrogen oxides

#### nitrous acid

air pollution atmospheric chemistry nitric acid nitrogen oxides reaction kinetics

#### nitrous oxides

GS chalcogenides

. oxides

. . nitrogen oxides

. . nitrous oxides nitrogen compounds

. nitrogen oxides

.. nitrous oxides

#### nitroxychlorides

GS halogen compounds . chlorine compounds

. . chlorides

. nitroxychlorides

. halides

. . chlorides

. . nitroxychlorides nitrogen compounds

nitroxychlorides

#### nitryl chlorides GS

halogen compounds . chlorine compounds . . chlorides

. nitryl chlorides

. halides

. . chlorides

. . nitryl chlorides nitrogen compounds . nitryl chlorides

#### nitryl fluorides

GS halogen compounds . fluorine compounds

. . fluorides

... nitryl fluorides

. halides

. . fluorides

. nitryl fluorides nitrogen compounds

nitryl fluorides

(added September 2006)

DEF Natural satellite of Pluto discovered May 2005.

ĞS celestial bodies

. natural satellites

. . Pluto satellites

. . Nix RT

Hvdra Pluto (planet)

NMR

nuclear magnetic resonance USE

#### n-n junctions

GS semiconductor junctions

. n-n junctions

#### NOAA 2 satellite

GS artificial satellites

. meteorological satellites

. . NOAA satellites

... NOAA 2 satellite

#### NOAA 3 satellite

GS artificial satellites

. meteorological satellites

. . NOAA satellites

... NOAA 3 satellite

#### NOAA 4 satellite

DEF One of a series of meteorological satellites launched by NASA for the National Oceanic and Atmospheric Administration.

GS artificial satellites

. meteorological satellites

. . NOAA satellites

... NOAA 4 satellite

#### NOAA 5 satellite

DEF One of a series of environmental sat-ellites launched by NASA for the National Oce-anic and Atmospheric Administration for the sensing and recording of atmospheric, hydrological, and oceanographic environmental data.

artificial satellites GS

. meteorological satellites

. . NOAA satellites

... NOAA 5 satellite

#### NOAA 6 satellite

DEF Designation for a NOAA meteorological satellite conforming to the TIROS N configuration

artificial satellites

. meteorological satellites

. . NOAA satellites

. NOAA 6 satellite

. . TIROS satellites

... TIROS N series satellites

. NOAA 6 satellite

RT Advanced Very High Resolution Radiometer

#### NOAA 7 satellite

DEF Designation for the seventh NOAA meteorological satellite conforming to the TIROS N configuration.

GS artificial satellites

. meteorological satellites

. . NOAA satellites

.. NOAA 7 satellite

Advanced Very High Resolution Radiometer TIROS N series satellites

#### NOAA 8 satellite

UF NOAA E
GS artificial satellites

. meteorological satellites

. . NOAA satellites

NOAA 8 satellite

Advanced Very High Resolution Radiometer

SarSat

#### NOAA 9 satellite

(added July 1990) UF NOAA F satellite

GS artificial satellites

. meteorological satellites

. . NOAA satellites

... NOAA 9 satellite

### NOAA 10 satellite

(added July 1990) UF NOAA G satellite

artificial satellites

. meteorological satellites

. . NOAA satellites . . . NOAA 10 satellite

NOAA 11 satellite

(added May 1997) GS artificial satellites

. meteorological satellites
. . NOAA satellites

. NOAA 11 satellite Advanced Very High Resolution

Radiometer

Solar Backscatter UV Spectrometer

### NOAA 12 satellite

(added May 1997)

GS artificial satellites

. meteorological satellites

. . NOAA satellites NOAA 12 satellite

RT Advanced Very High Resolution Radiometer

## microwave sounding

NOAA 14 satellite

(added May 1997)

artificial satellites . meteorological satellites

. . NOAA satellites

NOAA 14 satellite Solar Backscatter UV Spectrometer

NOAA E USE NOAA 8 satellite

NOAA F satellite

USE NOAA 9 satellite NOAA G satellite

# USE NOAA 10 satellite

**NOAA** satellites

artificial satellites . meteorological satellites

... NOAA satellites

... NOAA 2 satellite NOAA 3 satellite

NOAA 4 satellite

NOAA 5 satellite

NOAA 6 satellite NOAA 7 satellite

NOAA 8 satellite

NOAA 9 satellite

NOAA 10 satellite

... NOAA 11 satellite ... NOAA 12 satellite

NOAA 14 satellite Advanced Microwave Sounding Unit SMS 1

#### nobelium

chemical elements

SMS<sub>2</sub>

actinide series

| transuranium elements  | meteorology  | sound propagation                              |
|--|--|--|
| nobelium   | NASA programs  | 1 1 3  |
| . nuclides   | observation  | noise hazards                                  |
| isotopes   | ∞ systems  | USE <b>hazards</b>                             |
| radioactive isotopes   |  | noise (sound)                                  |
| transuranium elements  |  | noise injuries                                 |
| <b>nobelium</b><br>metals  | ∞ noise         SN (USE OF A MORE SPECIFIC TERM IS         | GS injuries                                    |
| . actinide series  | RECOMMENDEDCONSULT THE TERMS                               | . noise injuries                               |
| transuranium elements  | LISTED BELOW)  | RT ear protectors                              |
| nobelium   | DEF Any undesired signal (electrical or                    | ∞ noise  |
| RT nobelium isotopes   | acoustic) that tends to interfere with the recep-          |  |
|  | tion, interpretation, or processing of the desired signal. | noise intensity                                |
| nobelium isotopes  | RT background noise  | RT aircraft noise                              |
| GS chemical elements   | continuous noise   | auditory stimuli                               |
| . nuclides   | effective perceived noise levels                           | effective perceived noise levels               |
| isotopes   | electromagnetic noise                                      | electromagnetic noise<br>∞ intensity           |
| <b>nobelium isotopes</b><br>RT nobelium  | hum  | propeller noise                                |
| TT Hobeliain   | information theory   | psychoacoustics                                |
| noble gases  | noise (sound)  | sirens   |
| USE rare gases   | noise injuries   | sound intensity                                |
|  | noise propagation  | •  |
| noble metals   | noise spectra<br>random noise                              | noise measurement                              |
| UF precious metals   | signal to noise ratios                                     | GS acoustic measurement                        |
| GS metals  | spatial filtering  | noise measurement                              |
| . noble metals   | white noise  | RT aerodynamic noise                           |
| gold<br>gold isotopes  |  | aircraft noise                                 |
| gold 198   |  | background noise<br>iet aircraft noise         |
| ruthenium  | noise (sound)  | loudness                                       |
| ruthenium isotopes   | UF noise hazards   | ∞ measurement                                  |
| silver   | GS elastic waves   | noise (sound)                                  |
| silver isotopes  | . sound waves  | propeller noise                                |
| RT ∞ Group 1B compounds  | noise (sound)  | sound intensity                                |
|  | aircraft noise   | •  |
| noctilucence   | blade slap noise   | noise meters                                   |
| USE luminescence   | jet aircraft noise   | SN (LIMITED TO ACOUSTIC NOISE)                 |
| noctilucent clouds   | propeller noise<br>sonic booms                             | GS measuring instruments                       |
| DEF Clouds of unknown composition which  | engine noise   | . <b>noise meters</b> RT acoustic measurement  |
| occur at great heights, 75 to 90 kilometers. They                                      | rocket engine noise  | RT acoustic measurement field intensity meters |
| resemble thin cirrus clouds, but usually with a  | flow noise   | pressure measurement                           |
| bluish or silverish color, although sometimes  | thermal noise  | pressure measurement                           |
| orange to red, standing out against a dark night                                       | aerodynamic noise  | noise pollution                                |
| sky. Sometimes called luminous clouds.   | blade slap noise   | DEF Objectional or harmful levels of noise.    |
| GS clouds (meteorology)  | propeller noise  | GS pollution                                   |
| noctilucent clouds   | screech tones  | noise pollution                                |
| RT luminescence  | RT acoustics   | RT acoustics                                   |
| nocturnal variations   | aeolian tones  | audio frequencies                              |
| GS variations  | aircraft hazards<br>ambience                               | environment effects                            |
| . magnetic variations  | auditory stimuli   | environment pollution                          |
| nocturnal variations   | auditory tasks   | environmental quality                          |
| . periodic variations  | background noise   | human reactions<br>human tolerances            |
| nocturnal variations   | echoes   | physiological effects                          |
| RT diurnal variations  | effective perceived noise levels                           | physiological factors                          |
| geomagnetic micropulsations  | flight hazards   | sound waves                                    |
| geomagnetic pulsations   | human factors engineering                                  |  |
| the face Process   | hypersonic shock   | noise prediction                               |
| nodes (standing waves)   | jet blast effects  | DEF Estimation of intensity and frequencies    |
| DEF Points, lines, or surfaces in standing waves where some characteristic of the wave | loudness   | based on analyses of probable oscillation of   |
| field has essentially zero amplitude.  | mufflers   | vibration producing components.                |
| RT antinodes   | ∞ noise<br>noise measurement                               | GS predictions                                 |
| harmonics  | noise spectra  | noise prediction                               |
| resonant frequencies   | operational hazards  | noise prediction (aircraft)                    |
| standing waves   | random noise   | RT Ffowcs Williams-Hawkings equation           |
| vibration  | random vibration   | noise prediction (aircraft)                    |
| wavelengths  | reverberation  | DEF Estimating or forecasting of aircraft      |
| ∞ waves  | shock waves  | noise. Used for aircraft noise prediction.     |
|  | sound pressure   | UF aircraft noise prediction                   |
| nodules  | underwater acoustics                                       | GS predictions                                 |
| RT leguminous plants particles   | white noise  | noise prediction                               |
| spheres  |  | noise prediction (aircraft)                    |
| spheres  | noise attenuation  | RT aeroacoustics                               |
| -p   | noise attenuation  | ∞ aircraft                                     |
| NOE navigation   | USE noise reduction  | aircraft noise                                 |
| USE nap-of-the-earth navigation  |  | estimates                                      |
|  | noise elimination  | Ffowcs Williams-Hawkings equation              |
| NOESS  | USE noise reduction  | forecasting propeller noise                    |
| SN (NATIONAL OPERATIONAL   | OOL HOISE IGUUGION   | sound waves                                    |
| ENVIRONMENTAL SATELLITE SYSTEM) DEF The acronym for the National Opera-                |  | Sound waves                                    |
| tional Environmental Satellite System. This term                                       | noise generators   | noise propagation                              |
| is no longer in use. Used for National Opera-  | RT electromagnetic noise                                   | RT acoustics                                   |
| tional Environmental Sat Sys.  | ∞ generators   | coherence coefficient                          |
| UF National Operational Environmental  | radio frequency interference                               | continuous noise                               |
| Sat Sys  | random noise   | far fields                                     |
| RT meteorological satellites   | sound generators   | ∞ noise  |

signal to noise ratios tolerances (physiology) liquefaction sound propagation nonconductors Nomad launch vehicle USE electrical insulation noise reduction launch vehicles Nomad launch vehicle noise attenuation UF nonconservative forces rocket vehicles noise elimination . single stage rocket vehicles
. . Nomad launch vehicle noise suppressors acoustic attenuation acoustic ducts RT conservation conservation equations conservation laws Atlas launch vehicles continuity equation liquid propellant rocket engines acoustic retrofitting ∞ force acoustics aerodynamic noise nomenclatures nondestructive tests aircraft noise definition Testing that does not alter the material coaxial nozzles descriptions under test in a permanent manner or introduce ear protectors dictionaries any permanent changes to the material properecho suppressors mnemonics ties and structure. effective perceived noise levels naming UF flaw detection electrical grounding semantics GS nondestructive tests electromagnetic interference symbols . neutron radiography electromagnetic noise terminology RT acoustic emission flight rules thesauri acoustic imaging grazing flow adhesion tests Helmholtz resonators nominal values chemical tests interference immunity USE approximation destructive tests isolators electronic equipment tests jet aircraft noise nomograms engine tests loudness USE nomographs ground penetrating radar mufflers hardness tests propeller noise nomographs high temperature tests quiet engine program On charts or graphs, lines of constant infrared inspection ∞ reduction value of given quantities with respect to either inspection shock wave attenuation space or time. Used for isopleths and nomoload tests silence grams. low temperature tests squelch circuits isopleths UF ∞ materials tests suppressors nomograms nonintrusive measurement synchrophasing analysis (mathematics) GS photoacoustic microscopy vibration isolators . numerical analysis preventive maintenance . nomographs quality control noise spectra radiography reliability RT charts GS spectra graphs (charts) noise spectra SH waves acoustic frequencies nonadiabatic conditions shearography background noise DEF In thermodynamics, changes in volume, temperature, flow, etc., accompanied by a static tests channel noise ∞ tests electromagnetic compatibility transfer of heat. thermography electromagnetic noise electromagnetic spectra conditions tolerances (mechanics) GS . nonadiabatic conditions energy transfer ultrasonic flaw detection ∞ noise RT ultrasonic spectroscopy noise (sound) heat transfer ultrasonic tests radiation spectra random noise nonisothermal processes x ray inspection thermodynamics random signals nonelectrolytes shock spectra nonadiabatic processes RT electrolytes signal to noise ratios USE heat transfer white noise nonequilibrium conditions conditions nonadiabatic theory noise storms . nonequilibrium conditions adiabatic equations storms GS RT ∞ equilibrium charged particles noise storms unsteady state energy dissipation RT cosmic noise ionization cross sections electromagnetic noise nonequilibrium drag magnetic disturbances ionospheric storms USE friction drag ∞ theories magnetic storms wave propagation nonequilibrium flow radio frequency interference solar storms GS fluid flow nonanes . gas flow organic compounds . nonequilibrium flow noise suppressors . hydrocarbons RT equilibrium flow USE noise reduction . . aliphatic hydrocarbons ∞ fluids . . . alkanes heat transmission noise temperature ... nonanes oscillating flow temperature GS quasi-steady states . noise temperature nonaqueous electrolytes unsteady flow electromagnetic noise conductors electron energy electrolytes nonequilibrium ionization electron states . . nonaqueous electrolytes electric batteries temperature measurement . nonequilibrium ionization thermal noise ∞ electric cells electrochemistry electrolytic cells nonequilibrium plasmas noise threshold GS particles auditory fatigue primary batteries RT . charged particles auditory perception storage batteries . . energetic particles background noise wet cells . . . plasmas (physics) signal to noise ratios . nonequilibrium plasmas

noncondensable gases

. noncondensable gases critical temperature

gas-liquid interactions

gases

GS

∞ thresholds

hazards

human tolerances

noise tolerance

. corpuscular radiation . . energetic particles

. . . plasmas (physics)

RT magnetohydrodynamic stability

. . . nonequilibrium plasmas

nonuniform plasmas plasma composition plasma potentials plasma radiation plasma sheaths rotating plasmas

#### nonequilibrium radiation

electromagnetic radiation nonequilibrium radiation

nonthermal radiation shock wave propagation

#### nonequilibrium thermodynamics

GS thermodynamics

nonequilibrium thermodynamics

irreversible processes

nonEuclidian geometry USE differential geometry

#### nonferrous metals

GS metals

. nonferrous metals

chemical elements conductors

∞ metallurgy

#### nonflammable materials

asbestos fireproofing

Kevlar (trademark)

∞ materiaÌs oxides

refractory materials

#### nongray atmospheres

RT ∞ atmospheres

black body radiation

emissivity gray gas

planetary atmospheres

#### nongray gas

GS gases

nongray gas

RT ∞ atmospheres

black body radiation

emissivity heat transfer

spectral emission

thermal radiation

thermodynamics

#### nonholonomic equations

analysis (mathematics)

. complex variables

nonholonomic equations

RT analytic functions

∞ equations

#### nonhomogeneity

USE inhomogeneity

#### nonintrusive measurement

(added September 1992)

non-intrusive measurement

RT flow measurement

laser doppler velocimeters

∞ measurement

nondestructive tests

optical measurement

pressure sensitive paints temperature measurement

temperature sensitive paints

#### non-intrusive measurement USE nonintrusive measurement

#### nonisentropicity

GS isentropic processes

. nonisentropicity

RT entropy

∞ processes

### nonisothermal processes

DEF In thermodynamics, compression or expansion of substances at nonuniform temperatures.

RT energy transfer

heat transfer nonadiabatic conditions pressure effects processes

temperature gradients thermodynamics

nonisotropic plates

USE anisotropic plates

nonisotropy

USE anisotropy

nonlifting vehicles

USE ballistic vehicles

#### nonlinear equations

algebra

. nonlinear equations

. . cubic equations

. . Duffing differential equation

. . Monge-Ampere equation

.. nonlinear evolution equations

quadratic equations

quartic equations

analysis (mathematics)

. real variables

. . nonlinear equations

. cubic equations

Duffing differential equation

Monge-Ampere equation

nonlinear evolution equations

quadratic equations

quartic equations

Born-Infeld theory

differential equations

∞ equations

field theory (algebra)

integral equations

polynomials

roots of equations

### nonlinear evolution equations

algebra

. nonlinear equations

. . nonlinear evolution equations

analysis (mathematics)

. real variables

. . nonlinear equations

nonlinear evolution equations

RT difference equations

∞ equations

#### nonlinear feedback

GS feedback

nonlinear feedback

feedback amplifiers

feedback control negative feedback

positive feedback

sensory feedback transfer functions

### nonlinear filters

RT electric filters

electromagnetic wave filters

∞ filters

linear filters

### nonlinear optics

DEF Study of the interaction of radiation with matter in which certain variables describing the response of the matter are not proportional to variables describing the radiation.

RT birefringence

chromophores

electromagnetic radiation

electro-optical effect four-wave mixing

geometrical optics

gradient index optics optical bistability

∞ optics

quantum dots

quantum optics

duantum wires Raman spectra or all of the following are nonlinear in the variables: (A) the objective functions, (B) the the defining relationships among the variabes, the plant description, (C) the constraints.

Sagnac effect

nonlinear programming

GS optimization

An optimization problem in which any

. mathematical programming .. nonlinear programming

research

. nonlinear programming

RT ∞ applications of mathematics

constraints

formalism

linear programming

operations research

∞ programming

#### nonlinear systems

(DYNAMIC SYSTEMS HAVING NONLINEAR RESPONSES) SN attractors (mathematics)

chaos

control equipment

distributed parameter systems

dynamic programming dynamical systems

linear systems

strange attractors

∞ systems

tracking problem uncertain systems

### nonlinearity

UF quasilinearity

RT differential equations

functions (mathematics)

linearity magnetic amplifiers

variability Volterra equations

### nonNewtonian flow

The rate of flow of a material that is not proportional to the degree of force applied.

GS fluid flow

nonNewtonian flow liquid flow

steady flow thixotropy

unsteady flow

viscoelasticity viscoplasticity

## nonNewtonian fluids

Fluids that exhibit a viscosity which varies with changing shear stress or shear rate.

RT colloids

∞ fluids

gelatins gels

newton

**Newton Theory** Newtonian fluids

rheology viscoelasticity

viscoplasticity viscous fluids

## nonohmic effect

RT barrier lavers

contact resistance ∞ effects space charge

# nonoscillatory action

GS oscillations

nonoscillatory action oscillation dampers

oscillators vibration damping

#### nonparametric statistics GS

statistical analysis . nonparametric statistics

 $RT \, \infty \, statistics$ 

#### nonpoint sources

DEF Undetermined or general areas from

which pollutants, contaminants, and/or other unlines of force organic compounds wanted materials or wastes enter the environmagnetic anomalies . amino acids magnetic mirrors . . leucine contaminants ... norleucine contamination nonuniform plasmas particles normal density functions diffusion environments . charged particles Gaussian distributions normal distributions gases . . energetic particles liquids ... plasmas (physics) functions (mathematics) . nonuniform plasmas . probability density functions particles . corpuscular radiation ... normal density functions ∞ points . . energetic particles statistical analysis poisons . . . plasmas (physics) . probability density functions pollution . nonuniform plasmas normal density functions public health Kelvin-Helmholtz instability continuity (mathematics) radioactive wastes low density research discrete functions ∞ sources toxicology magnetohydrodynamic stability histograms nonequilibrium plasmas wastes normal distributions plasma composition plasma oscillations USE normal density functions nonpolar gases GS gases plasma waves normal force distribution nonpolar gases rarefied plasmas USE force distribution molecular gases rare gases nonuniformity normal shock waves flexibility nonreflection GS elastic waves inhomogeneity . shock waves energy absorption irregularities . normal shock waves nonsynchronization nonrelativistic electrons longitudinal waves oscillations magnetohydrodynamic waves USF electrons turbulence oblique shock waves nonrelativistic mechanics plane waves nonviscous flow Newton Theory shock layers USE inviscid flow relativity normality nonresonance asymptotic properties The instant at which a time reference is RT microwave resonance over the upper branch of the reference meridian. average transmission lines mean daytime RT traveling waves median (statistics) zenith norms nonrigidity Nord 262 aircraft statistical tests USE flexibility USE MH-262 aircraft normalized difference vegetation index nonspherical optics (added June 2001) Nord 1500 aircraft USE aspheric optics Griffon aircraft DEF A transformation of satellite-based measurements computed as the ratio of reflec-GS jet aircraft nonstabilized oscillation Nord 1500 aircraft tance in the red and near-infrared portions of the oscillations GS spectrum. Reflectance in the red region demonoplanes . nonstabilized oscillation Nord 1500 aircraft creases with increasing chlorophyll content of oscillation dampers the plant canopy, while reflectance in the infra-Nord aircraft oscillators Nord 1500 aircraft red increases with increasing wet plant biomass. pilot induced oscillation The index value represents greenness, density, research vehicles stable oscillations and vigor of vegetation. . research aircraft vibration damping . Nord 1500 aircraft NDVI (remote sensing) GS ratios supersonic aircraft nonsynchronization . indexes (ratios) Nord 1500 aircraft deviation . . vegetative index RT ∞ aircraft incoherence ... normalized difference ∞ interference vegetation index Nord aircraft nonuniformity RT crop vigor GS Nord aircraft image classification C-160 aircraft nonthermal emission MH-262 aircraft remote sensing USE nonthermal radiation satellite imagery Nord 1500 aircraft vegetation RT ∞ aircraft nonthermal radiation nonthermal emission ∞ normalizing electromagnetic radiation norepinephrine (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . nonthermal radiation Precursor of epinephrine that is secreted by the adrenal medulla and is a wide-. . cyclotron radiation LISTED BELOW)
normalizing (heat treatment) . . . ion cyclotron radiation spread central and autonomic neurotransmitter. . . synchrotron radiation Norepinephrine is the principal transmitter of normalizing (statistics) most postganglionic sympathetic fibers and of galactic radiation regularity the diffuse projection system in the brain arising magnetic fields nonequilibrium radiation from the locus ceruleus. It is also found in plants normalizing (heat treatment) and is used pharmacologically as a sympatho-∞ radiation heat treatment mimetic. radio waves . normalizing (heat treatment) GS drugs annealing thermal radiation . stimulants hardening (materials) nonuniform flow . . norepinephrine laser annealing fluid flow organic compounds ∞ normalizing GS nonuniform flow . amines tempering flow characteristics . . catecholamine . . norepinephrine gas flow normalizing (statistics) turbulent flow dopamine RT evaluation uniform flow neurotransmitters ∞ normalizing unsteady flow quality control

norleucine

GS acids

. amino acids

. . . norleucine

. . leucine

nonuniform magnetic fields

GS

magnetic fields

diffraction radiation

nonuniform magnetic fields

ratings

naming

norms

GS

renormalization group methods

. norms x ray spectra sinuses RT average North Sea ethics nose caps median (statistics) GS seas USE nose cones North Sea normality **English Channel** psychometrics nose cones DEF The cone shaped leading ends of rocket vehicles, consisting (a) of chambers in which satellites, instruments, animals, plants, or North Vietnam USE Vietnam North America auxiliary equipment may be carried, and (b) of GS continents Northern Hemisphere North America outer surfaces built to withstand high tempera-Appalachian Mountains (North GS Northern Hemisphere tures generated by aerodynamic heating. Used . Arctic regions America) for nose caps. . subarctic regions Canada UF nose caps RT ∞ hemispheres Central America GS cones northern sky Lower California (Mexico) . nose cones Southern Hemisphere Mexico . . ablative nose cones tundra . rocket nose cones Northern Ireland United States forebodies (added November 1989) Williston Basin (North America) . noses (forebodies) GS nations . . nose cones United Kingdom North American aircraft . . . ablative nose cones Northern Ireland GS North American aircraft . rocket nose cones RT Europe . A-2 aircraft RT ablative materials . A-5 aircraft aeroshells northern sky . B-1 aircraft blunt bodies That part of the sky visible from the DEF . B-70 aircraft ∞ caps northern hemisphere. . F-86 aircraft circular cones astronomical catalogs . F-100 aircraft half cones astronomical coordinates . OV-10 aircraft missile components astronomical observatories . P-51 aircraft ogives Northern Hemisphere . T-2 aircraft reentry shielding sky surveys (astronomy) . T-28 aircraft reentry vehicles Southern sky . T-39 aircraft spacecraft components . X-15 aircraft spacecraft shielding Northrop aircraft RT ∞ aircraft spherical caps GS Northrop aircraft warheads . A-9 aircraft North Atlantic Treaty Organization (NATO) F-5 aircraft nose fins organizations . F-18 aircraft North Atlantic Treaty Organization GS fins . F-20 aircraft (NATO) . nose fins . F-89 aircraft RT RT European Union control surfaces T-38 aircraft international cooperation finned bodies X-21 aircraft noses (forebodies) . X-21A aircraft vanes North Carolina RT ∞ aircraft GS nations . United States nose inlets **Northwest Territories** . North Carolina GS intake systems GS nations . nose inlets Cape Hatteras (NC) . Canada Great Smoky Mountains (NC-TN) air intakes . . Northwest Territories Outer Banks (NC) annular ducts Sand Hills Region (GA-NC-SC) bypass ratio Norton County achondrite ducted bodies GS celestial bodies ducts North Dakota . meteorites hypersonic inlets GS nations . . stony meteorites inlet airframe configurations . United States . . . achondrites nacelles North Dakota .... Norton County achondrite Missouri River (US) noses (forebodies) scoops Williston Basin (North America) Norway side inlets nations GS supersonic inlets North Korea Norway water intakes UF Democratic Peoples Republic of Europe Korea Norwegian space program GS nations DEF The foremost, sharp points of bombs, Scandinavia North Korea rockets, missiles, and other symmetrical bodies. Asia Norwegian space program GS tips (added August 1990) nose tips South Korea aerodynamic configurations programs airfoil profiles . space programs North Polar Spur (astronomy) . . European space programs noses (forebodies) DEF One of the largest sources of diffuse ... Norwegian space program radio emission outside the galactic plane. The RT Norway nose wheels Spur, a ridge of enhanced emission, may be the remnant of the shells of supernovae which ex-GS wheels ∞ nose ploded over 100,000 years ago. . vehicle wheels (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) nose (anatomy) GS electromagnetic radiation . nose wheels brakes (for arresting motion) . radio waves . . extraterrestrial radio waves landing gear RT . . . galactic radio waves noses (forebodies) . North Polar Spur (astronomy) noses (forebodies) extraterrestrial radiation nose (anatomy) GS forebodies . extraterrestrial radio waves anatomy . noses (forebodies) . . galactic radio waves . face (anatomy) . . nose cones . . . ablative nose cones . North Polar Spur (astronomy) . nose (anatomy) . galactic radiation . respiratory system . . . rocket nose cones . . galactic radio waves RT aircraft structures . nose (anatomy) . . North Polar Spur (astronomy) head (anatomy) ∞ nose

∞ nose

paranasal sinuses

nose fins

nose inlets

RT

nebulae

supernova remnants

nose tips  $\infty$  vehicles ∞ nozzles

Nostoc

plants (botany)

. algae

. . blue green algae

. . Nostoc

. thermophilic plants

. . blue green algae

... Nostoc

notation

USE coding

#### notch sensitivity

GS mechanical properties

. toughness

.. notch sensitivity

sensitivity

impact tests

notch sensitivity

Charpy impact test fatigue (materials) impact strength

notch strength

mechanical properties GS

notch strength

brittleness ductility

fatigue tests

impact tests ∞ strength

stress concentration stress intensity factors

#### notch tests

notched metals

GS notch tests

Charpy impact test

brittleness

crack opening displacement

drop tests fatigue tests

hardness

impact tests stress concentration

∞ tests

notched metals

USE notch tests

#### notches

RT crack opening displacement

passageways

V grooves

#### Nova computers

A series of minicomputers built by Data General.

GS data processing equipment

. computers

. . digital computers

. . . minicomputers

. . . Nova computers

#### Nova Laser System

DEF Laser fusion system utilizing large neodymium glass lasers for irradiating DT pel-

GS stimulated emission devices

. lasers

. . high power lasers

. . Nova Laser System

laser fusion laser outputs

Shiva laser system

∞ systems

#### Nova launch vehicles

GS launch vehicles

. Nova launch vehicles

rocket vehicles

. multistage rocket vehicles

. Nova launch vehicles

F-1 rocket engine

J-2 engine

liquid propellant rocket engines

M-1 engine

Nova satellites

A second generation Navy navigation satellite which replaces the transit satellites.

GS artificial satellites

. navigation satellites

Nova satellites

Discos (satellite attitude control) Transit navigation system

#### **Nova Scotia**

GS nations

. Canada

.. Nova Scotia

#### novae

celestial bodies

. stars

. . variable stars

. . . novae

.... dwarf novae

. . . Hercules nova

cataclysmic variables shock waves

stellar mass

stellar mass ejection

supernovae

symbiotic stars

#### novocain

GS drugs

. anesthetics

. . novocain

#### nowcasting

A self contained short period meteorological forecast for the immediate future covering a period of up to six hours.

GS meteorology

weather forecasting

. nowcasting

predictions

. forecasting

. . weather forecasting . nowcasting

aviation meteorology

hindcasting

noxious materials

USE contaminants

#### Nozomi Mars Orbiter

(added August 1998)

A Japanese Mars mission spacecraft designed to study the Martian upper atmosphere and its interaction with the solar wind, and to develop technologies for use in future planetary missions. Specifically, instruments on the spacecraft enable the measurement of the structure, composition and dynamics of the ionosphere; aeronomy effects of the solar wind; the escape of atmospheric constituents; the intrinsic magnetic field; and dust in the upper

atmosphere and in-orbit around Mars.
UF Planet-B spacecraft

interplanetary spacecraft

Mars probes

Nozomi Mars Orbiter

Japanese spacecraft Nozomi Mars Orbiter

unmanned spacecraft . space probes

. . Mars probes

Nozomi Mars Orbiter

RT aeronomy Deimos

planetary atmospheres solar planetary interactions

nozzle coefficient

USE nozzle flow

#### nozzle design

RT aerospike engines

∞ design

engine design

nozzle efficiency

DEF The efficiency with which a nozzle converts potential energy into kinetic energy, com-monly expressed as the ratio of the actual change in kinetic energy to the ideal change at

the given pressure ratio.

GS efficiency

. nozzle efficiency

RT ∞ nozzles power efficiency

propulsive efficiency thermodynamic efficiency

#### nozzle flow

nozzle coefficient

fluid flow

. internal flow

. . nozzle flow aerothermochemistry

annular flow choked flow

corner flow discharge coefficient

exhaust gases

exhaust nozzles fissionable materials

flow geometry flow noise

fluid injection injectors iet flow

outlet flow pneumatic probes screech tones

supersonic jet flow transonic flow

nozzle geometry

geometry . nozzle geometry

coaxial nozzles conical nozzles

convergent nozzles

convergent-divergent nozzles discharge coefficient

divergent nozzles mass flow factors ∞ nozzles

pipe nozzles plug nozzles shrouded nozzles spike nozzles

nozzle inserts

throats

inserts GS

. nozzle inserts RT ablative materials

chokes conical nozzles convergent-divergent nozzles

exhaust nozzles ∞ nozzles rocket nozzles

## throats nozzle thrust coefficients

coefficients

nozzle thrust coefficients discharge coefficient

flow coefficients influence coefficient thrust

thrust vector control

nozzle walls GS walls

nozzle walls

conical nozzles convergent nozzles divergent nozzles iet amplifiers

> ∘ nozzles refractory materials

shrouded nozzles

## nozzleless rocket engines

| throats  | RT cosmology                                       | electron capture   |
|--|--|--|
| nozzleless rocket engines                      | nuclear particles                                  | . nuclear interactions   |
| GS engines                                     | stellar physics                                    | <b>nuclear capture</b><br>electron capture   |
| . rocket engines                               | nuclear auxiliary power units                      | RT activation energy   |
| nozzleless rocket engines                      | GS auxiliary power sources                         | capture effect   |
| RT rocket nozzles                              | . nuclear auxiliary power units                    | electron transitions   |
| ∞ nozzles                                      | SNAP   | energy levels  |
| SN (USE OF A MORE SPECIFIC TERM IS             | fission electric cells<br>SNAP 2                   | ∞ interactions   |
| RECOMMENDEDCONSULT THE TERMS                   | SNAP 4   | irradiation<br>spin  |
| LISTED BELOW) RT acoustic nozzles              | SNAP 8   | transition probabilities   |
| annular nozzles                                | SNAP 10A   | transition probabilities   |
| atomizers                                      | SNAP 1   | nuclear chemistry  |
| blowers  | SNAP 3   | RT atomic structure  |
| chokes   | SNAP 7   | ∞ chemistry  |
| chokes (restrictions)                          | SNAP 9A<br>SNAP 11                                 | isomers<br>∞ nuclear energy  |
| coaxial nozzles<br>conical nozzles             | SNAP 13  | physical chemistry   |
| convergent nozzles                             | SNAP 15  | plasma chemistry   |
| convergent-divergent nozzles                   | SNAP 17  | quantum chemistry  |
| ∞ diffusers                                    | SNAP 19  | radiochemistry   |
| divergent nozzles                              | SNAP 21  | nuclear deformation  |
| dual thrust nozzles                            | SNAP 23<br>SNAP 27                                 | GS deformation   |
| exhaust nozzles                                | SNAP 27  | . nuclear deformation  |
| flow measurement<br>funnels                    | SNAP 50  |  |
| hypersonic nozzles                             | space power reactors                               | nuclear devices  |
| injectors                                      | fission electric cells                             | DEF Devices whose explosive potency is   |
| inlet nozzles                                  | SNAP 2   | derived from nuclear fission of atoms of fission-<br>able material with the consequent conversion of |
| magnetic nozzles                               | SNAP 4<br>SNAP 8                                   | part of their mass into energy.  |
| nozzle design                                  | SNAP 8   | GS explosive devices   |
| nozzle efficiency                              | SNAP 50  | nuclear devices  |
| nozzle geometry<br>nozzle inserts              | space power unit reactors                          | RT ∞ devices   |
| nozzle walls                                   | nuclear electric power generation                  | fission weapons  |
| orifices                                       | . nuclear auxiliary power units                    | thermonuclear explosions   |
| outlets  | SNAP   | warheads   |
| pipe nozzles                                   | fission electric cells<br>SNAP 2                   | nuclear electric power generation  |
| plug nozzles                                   | SNAP 2   | UF nuclear power generation  |
| rocket nozzles<br>shrouded nozzles             | SNAP 8   | GS nuclear electric power generation   |
| sonic nozzles                                  | SNAP 10A   | . nuclear auxiliary power units  |
| spike nozzles                                  | SNAP 1   | SNAP   |
| spray nozzles                                  | SNAP 3   | fission electric cells   |
| sprayers                                       | SNAP 7   | SNAP 2<br>SNAP 4   |
| supersonic nozzles                             | SNAP 9A  | SNAP 8   |
| transonic nozzles                              | SNAP 11<br>SNAP 13                                 | SNAP 10A   |
| turbines<br>vents                              | SNAP 15  | SNAP 1   |
| wind tunnel nozzles                            | SNAP 17  | SNAP 3   |
| WING CONTROL HOLLIGS                           | SNAP 19  | SNAP 7   |
| n-p junctions                                  | SNAP 21  | SNAP 9A  |
| USE p-n junctions                              | SNAP 23  | SNAP 11<br>SNAP 13   |
| n n n junctions                                | SNAP 27<br>SNAP 29                                 | SNAP 15  |
| n-p-n junctions GS semiconductor junctions     | SNAP 29<br>SNAP 50                                 | SNAP 17  |
| . n-p-n junctions                              | space power reactors                               | SNAP 19  |
| RT bipolar transistors                         | fission electric cells                             | SNAP 21  |
| •  | SNAP 2   | SNAP 23  |
| NRX reactors                                   | SNAP 4   | SNAP 27<br>SNAP 29   |
| GS nuclear reactors                            | SNAP 8<br>SNAP 10A                                 | SNAP 50  |
| . liquid cooled reactors water cooled reactors | SNAP 10A   | space power reactors   |
| NRX reactors                                   | space power unit reactors                          | fission electric cells   |
| . nuclear research and test reactors           | RT ∞ power supplies                                | SNAP 2   |
| NRX reactors                                   | radioisotope batteries                             | SNAP 4   |
| RT KIWI reactors                               | spacecraft power supplies                          | SNAP 8<br>SNAP 10A   |
| nuclear engine for rocket vehicles             | thermoelectric generators                          | SNAP 50  |
| NTS  | thermoelectric power generation                    | space power unit reactors  |
| USE navigation technology satellites           | nuclear binding energy                             | . nuclear power plants   |
| 3  | GS binding energy                                  | Enrico Fermi atomic power plant  |
| n-type semiconductors                          | . nuclear binding energy                           | Hallam Nuclear Power Facility  |
| GS semiconductors (materials)                  | RT activation energy                               | ML-1 nuclear power plant   |
| . n-type semiconductors                        | ∞ energy   | . nuclear power reactors<br>KIWI reactors  |
| RT electrons Schottky diodes                   | gravitational binding energy ionization potentials | KIWI Teactors  |
| semiconductor junctions                        | ionization potentials                              | KIWI B-1 Reactor   |
| Suhl effect                                    | nuclear bulge (galaxies)                           | KIWI B-4 Reactor   |
|  | USE galactic bulge                                 | Pathfinder nuclear reactor   |
| nu factor                                      |  | plutonium recycle test reactor   |
| RT Poisson ratio                               | nuclear capture                                    | space power reactors   |
| nuclear astrophysics                           | GS nuclear reactions . nuclear interactions        | fission electric cells<br>SNAP 2   |
| (added July 1988)                              | . nuclear interactions                             | SNAP 2<br>SNAP 4   |
| GS astrophysics                                | electron capture                                   | SNAP 8   |
| . nuclear astrophysics                         | particle interactions                              | SNAP 10A   |
| nuclear physics                                | . elementary particle interactions                 | SNAP 50  |
| nuclear astrophysics                           | nuclear capture                                    | space power unit reactors  |

. . Tory 2 reactor . . Tory 2-A reactor Tory 2-C reactor thermonuclear power generation electric generators ∞ nuclear energy nuclear electric propulsion GS propulsion . nuclear propulsion nuclear electric propulsion electric propulsion electrothermal engines fusion propulsion ion propulsion marine propulsion plasma propulsion spacecraft propulsion nuclear emulsions Very thick photographic emulsions used in the study of cosmic rays and other energetic particles. The paths of the particles through the thick emulsions are recorded in three dimensions. GS mixtures . dispersions . . emulsions ... photographic emulsions nuclear emulsions . solutions . . photographic emulsions . . nuclear emulsions dosimeters radiation counters radiation measuring instruments nuclear energy (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) All forms of energy released in the course of a nuclear fission or a nuclear transformation. atomic energy annular core pulse reactors RT atomic theory chemical energy energy policy energy storage molecular energy levels nuclear chemistry nuclear electric power generation nuclear fission nuclear fuels nuclear fusion nuclear heat nuclear physics nuclear propulsion nuclear reactors nuclear research nuclear warfare nuclear weapons nucleonics spent fuels nuclear engine for rocket vehicles NERVA (engine) GS engines . rocket engines .. nuclear engine for rocket vehicles booster rocket engines KIWI reactors NRX reactors Phoebus nuclear reactor Rover project sustainer rocket engines ∞ vehicles water cooled reactors nuclear explosion effect RT ∞ effects fallout radiation effects radiation hazards

nuclear explosions

atomic explosions

. nuclear explosions

explosions

UF

GS

. . thermonuclear explosions aerial explosions artificial radiation belts civil defense cratering fallout ∞ fireballs Fishbowl Operation high energy interactions radiation hazards underground explosions underwater explosions Vela satellites nuclear fission GS nuclear reactions . nuclear fission . chain reactions (nuclear physics) critical experiments critical mass decay fissile fuels fission products fusion reactors fusion-fission hybrid reactors high energy interactions neutron flux density ∞ nuclear energy radioactive decay radioactive materials subcritical mass nuclear fuel burnup GS combustion . fuel combustion . nuclear fuel burnup critical mass reactor physics reactor technology nuclear fuel elements fuel elements (nuclear reactors) annular core pulse reactors RT  $\infty$  elements fuels plutonium alloys reactor cores reactor materials uranium alloys uranium carbides nuclear fuel reprocessing DEF Periodic chemical, physical, and metallurgical treatment of materials used as fuel elements in nuclear reactors to recover and purify residual fissionable and fertile materials. GS reclamation . materials recovery . nuclear fuel reprocessing RT nuclear fuels ∞ processing ∞ recovery recycling spent fuels nuclear fuels DEF Fissionable materials of reasonable long life, used or usable in producing energy in a nuclear reactor. Used for reactor fuels. UF reactor fuels GS fuels . nuclear fuels . . ceramic nuclear fuels . . fissile fuels . . fissium . . spent fuels annular core pulse reactors deuterium energy policy fission fissionable materials fuel capsules fuel production inertial fusion (reactor) mixed oxides neutron sources ∞ nuclear energy nuclear fuel reprocessing pellets plutonium

plutonium alloys plutonium compounds reactor cores reactor materials reactor startup tests sol-gel processes thorium thorium alloys thorium compounds tritium uranium uranium 233 uranium 235 uranium 238 uranium alloys uranium carbides uranium compounds uranium oxides nuclear fusion HE nucleosynthesis GS nuclear reactions . thermonuclear reactions .. nuclear fusion . . controlled fusion RT collisional plasmas degenerate matter dense plasmas deuteron irradiation ∞ fusion fusion propulsion fusion reactors fusion weapons fusion-fission hybrid reactors high energy interactions irradiation magnetic mirrors mirror fusion ∞ nuclear energy plasma focus railgun accelerators star formation stellar interiors stellar physics ∞ synthesis tokamak devices nuclear gyroscopes GS gyroscopes nuclear gyroscopes nuclear heat GS heat . nuclear heat RT ∞ nuclear energy nuclear interactions GS nuclear reactions . nuclear interactions . . nuclear capture ... electron capture . . spin-orbit interactions ... electron capture weak interactions (field theory) particle interactions . nuclear interactions . . nuclear capture ... electron capture . . spin-orbit interactions . . . electron capture weak interactions (field theory) RT collision parameters elementary particles high energy interactions ∞ interactions strong interactions (field theory) nuclear isobars RT chemical elements  $\infty$  isobars isotopes nuclei (nuclear physics) nuclides nuclear lightbulb engines GS engines

. rocket engines

. . nuclear rocket engines

... nuclear lightbulb engines

RT gaseous fission reactors photoneutrons power reactors pi-electrons pressurized water reactors nuclear magnetic resonance positron annihilation SNAP knight shift UF proton resonance sodium graphite reactors NMR GS resonance nuclear powered ships . magnetic resonance nuclear physics GS surface vehicles GS nuclear physics ... nuclear magnetic resonance . nuclear powered ships . . . proton magnetic resonance nuclear astrophysics . . Savannah nuclear ship . . proton resonance reactor physics water vehicles magnetic signals atomic structure magnetometers current algebra ... nuclear powered ships molecular structure electromagnetic absorption . . Savannah nuclear ship paramagnetic resonance field theory (physics) aircraft carriers particle spin health physics cargo ships Plancks constant ∞ nuclear energy navy spin resonance nucleonics submarines spin-lattice relaxation parity particle spin nuclear propelled aircraft nuclear medicine RT ∞ aircraft ∞ physics DEF That branch of medicine dealing with quantum theory ∞ military aircraft the effect of radiation such as x rays, gamma science research aircraft rays, and energetic particles on the body and theoretical physics with the prevention and cure of physiological nuclear propulsion injuries resulting from such radiation. Used for chemonuclear propulsion nuclear potential radiation medicine. potential energy thermonuclear propulsion GS radiation medicine nuclear potential propulsion GS medical science RT nucleon potential nuclear propulsion . nuclear medicine . . fusion propulsion . radiobiology nuclear power generation . nuclear electric propulsion antiradiation drugs USE nuclear electric power generation aircraft engines gaseous fission reactors health physics nuclear power plants high temperature nuclear reactors ∞ radiation high temperature propellants electric power plants radiopathology nuclear power plants magnetic nozzles nuclear meteorology . . Enrico Fermi atomic power plant marine propulsion meteorology . . Hallam Nuclear Power Facility matter-antimatter propulsion GS . ML-1 nuclear power plant mercury ion engines
NEW MOONS project nuclear meteorology nuclear electric power generation fallout nuclear power plants ∞ nuclear energy nuclear models . . Enrico Fermi atomic power plant Rover project Hallam Nuclear Power Facility GS models Savannah nuclear ship . ML-1 nuclear power plant . nuclear models spacecraft propulsion atomic structure plasma core reactors trident submarine energy levels underwater propulsion molecular structure nuclear power reactors GS nuclear electric power generation quark parton model nuclear pumped lasers nuclear power reactors DEF Lasers in which the excitation is supnuclear particles . . KIWI reactors plied by a nuclear reactor as a high flux source ... KIWI B reactors particles or by the kinetic energy of the fission fragments . . . . KIWI B-1 Reactor only. . nuclear particles KIWI B-4 Reactor . . antiparticles stimulated emission devices . . . antineutrinos . . Pathfinder nuclear reactor . lasers . . . antinucleons plutonium recycle test reactor . nuclear pumped lasers . space power reactors . . . antiprotons optical pumping positrons . . . fission electric cells optical resonance . . beta particles .... SNAP 2 SNAP 4 . . bosons nuclear pumping .... SNAP 8 ... alpha particles Laser-like pumping produced by elec-SNAP 10A . Higgs bosons trons generated in nuclear reactions or, in gen-... SNAP 50 . . . mesons eral, by beams of charged particles. eta-mesons space power unit reactors RT electron pumping Tory 2 reactor . hyperons energy transfer Tory 2-A reactor Tory 2-C reactor . xi hyperons fission products kaons gas lasers . . . meson resonance nuclear reactors lasers . X mesons . nuclear power reactors optical pumping muons . . KIWI reactors population inversion . . omega-mesons ... KIWI B reactors ∞ pumping . . . . pions . . . . KIWI B-1 Reactor stimulated emission vector mesons KIWI B-4 Reactor stimulated emission devices . . . . . rho-mesons Pathfinder nuclear reactor .... sigma-mesons plutonium recycle test reactor nuclear quadrupole resonance ... photons . . space power reactors resonance . xi hyperons fission electric cells . nuclear quadrupole resonance . . nucleons .... SNAP 2 energy levels . photoelectrons SNAP 4 quadrupoles corpuscular radiation .... SNAP 8 cosmic rays SNAP 10A nuclear radiation elementary particles ... SNAP 50 DEF Corpuscular emissions, such as alpha fission products . space power unit reactors and beta particles, or electromagnetic radiation, gamma ray bursts such as gamma rays, originating in the nucleus . . Tory 2 reactor neutron cross sections . . Tory 2-A reactor of the atom. . Tory 2-C reactor neutron distribution nuclear radiation

boiling water reactors

fast nuclear reactors

high temperature gas cooled reactors liquid metal fast breeder reactors

fast oxide reactors

breeder reactors

beta particles

. gamma rav beams

. . gamma ray bursts

. fast neutrons

. gamma rays

neutron beams

neutron scattering

nucleon potential

particle tracks

nuclear astrophysics

particle accelerators

nucleon-nucleon scattering

|         | . photoneutrons                          | poisoning (reaction inhibition)  | Plum Brook Reactor                                      |
|---------|--|--|---|
|         | . post-blast nuclear radiation           | pomerons   | pressurized water reactors                              |
|         | . spallation                             | radiation absorption   | spectral shift control reactor                          |
|         | . thermal neutrons                       | radiogenic materials   | swimming pool reactors                                  |
| RT      | alpha particles                          | ∞ reaction   | zero power reactors                                     |
|         | bremsstrahlung                           | reaction kinetics  | zero power reactor 2                                    |
|         | Cerenkov radiation corpuscular radiation | reactivity   | zero power reactor 3                                    |
|         | electromagnetic radiation                | solar neutrinos<br>strong interactions (field theory)                  | zero power reactor 6                                    |
|         | electron pumping                         | subcritical mass   | zero power reactor 9                                    |
|         | electron radiation                       | Subolitical Mass   | . molten salt nuclear reactors                          |
|         | electrons                                | musleer reactor control  | . nuclear power reactors                                |
|         | elementary particles                     | nuclear reactor control  | KIWI reactors   |
|         | emission spectra                         | RT confinement<br>∞ control  | KIWI B reactors   |
|         | fission products                         | control rods   | KIWI B-1 Reactor  |
|         | gamma ray absorption                     | ∞ reaction control   | KIWI B-4 Reactor  |
|         | health physics                           | reactor safety   | Pathfinder nuclear reactor                              |
|         | high energy interactions                 | reactor sarcty   | plutonium recycle test reactor                          |
|         | ionizing radiation                       |  | space power reactors                                    |
|         | irradiation                              | nuclear reactors   | fission electric cells                                  |
|         | neutrons                                 | DEF Apparatus in which nuclear fission may                             | SNAP 2  |
|         | particle production                      | be sustained in a self supporting chain reaction.  GS nuclear reactors | SNAP 4<br>SNAP 8  |
|         | photons                                  | . annular core pulse reactors  | SNAP 0  |
| ~       | radiation                                | . Astron thermonuclear reactor   | SNAP 50   |
|         | radiation effects                        | . breeder reactors   | space power unit reactors                               |
|         | radiation hazards                        | Experimental Breeder Reactor 1   | Tory 2 reactor  |
|         | radioactive contaminants                 | Experimental Breeder Reactor 2   | Tory 2-A reactor  |
|         | radioactive decay                        | light water breeder reactors   | Tory 2-C reactor  |
|         | radioactive materials                    | liquid metal fast breeder reactors                                     | . nuclear research and test reactors                    |
|         | radioactivity                            | . engineering test reactors  | advanced test reactors                                  |
|         | radiobiology                             | . fast nuclear reactors  | experimental boiling water reactors                     |
|         | radiochemistry                           | Experimental Breeder Reactor 1   | Experimental Breeder Reactor 1                          |
|         | Vela satellites                          | Experimental Breeder Reactor 2   | Experimental Breeder Reactor 2                          |
| nuclear | radiation spectroscopy                   | . fast oxide reactors  | experimental gas cooled reactors                        |
| GS      | spectroscopy                             | fast test reactors   | experimental organic cooled                             |
| 00      | . nuclear radiation spectroscopy         | gas cooled fast reactors   | reactors  |
| RT      | mass spectroscopy                        | liquid metal fast breeder reactors                                     | Health Physics Research Reactor                         |
|         | spectroscopic analysis                   | . fusion reactors  | heavy water components test                             |
|         | vacuum spectroscopy                      | heliotrons   | reactors  |
|         | , ,,                                     | spheromaks   | HERO Reactor  |
| nuclear | ramjet engines                           | stellarators   | high temperature nuclear reactors                       |
| GS      | engines                                  | fusion-fission hybrid reactors   | high temperature gas cooled                             |
|         | . rocket engines                         | . gas cooled reactors  | reactors  |
|         | nuclear ramjet engines                   | experimental gas cooled reactors                                       | Janus Reactor   |
|         | Pluto reactors                           | gas cooled fast reactors   | KIWI reactors   |
| ~       | rockets                                  | . high temperature nuclear reactors                                    | KIWI B reactors   |
|         | supersonic low altitude missile          | high temperature gas cooled  | KIWI B-1 Reactor  |
| nuoloor | reactions                                | reactors KIWI reactors   | KIWI B-4 Reactor  |
| UF      | neutron transmutation                    | KIWI B reactors  | Livermore Pool Type Reactor Los Alamos Molten Plutonium |
| GS      | nuclear reactions                        | KIWI B reactor   | Reactor   |
| 00      | . nuclear fission                        | KIWI B-4 Reactor   | military compact reactors                               |
|         | chain reactions (nuclear physics)        | Tory 2 reactor   | NRX reactors  |
|         | . nuclear interactions                   | Tory 2-A reactor   | Plum Brook Reactor                                      |
|         | nuclear capture                          | Tory 2-C reactor   | plutonium recycle test reactor                          |
|         | electron capture                         | . gaseous fission reactors   | sodium reactor experiment                               |
|         | spin-orbit interactions                  | . Hanford reactors   | Spert reactors  |
|         | electron capture                         | . high flux isotope reactors   | Tory 2 reactor  |
|         | weak interactions (field theory)         | liquid cooled reactors   | Tory 2-A reactor  |
|         | . nuclear scattering                     | liquid metal cooled reactors   | Tory 2-C reactor  |
|         | neutron scattering                       | advanced sodium cooled reactor   | Tower Shielding Reactor 2                               |
|         | resonance scattering                     | Experimental Breeder Reactor 1   | zero power reactor 2                                    |
|         | . nuclear transformations                | Experimental Breeder Reactor 2   | zero power reactor 3                                    |
|         | transmutation                            | Lithium Cooled Reactor   | zero power reactor 6                                    |
|         | . photonuclear reactions                 | Experiment   | zero power reactor 9                                    |
|         | . proton scattering                      | Los Alamos Molten Plutonium  | . organic moderated reactors                            |
|         | . proton-proton reactions                | Reactor  | experimental organic cooled                             |
|         | . radioactive decay alpha decay          | military compact reactors sodium graphite reactors                     | reactors . pebble bed reactors                          |
|         | neutron emission                         | sodium reactor experiment  | . Phoebus nuclear reactor                               |
|         | . spallation                             | organic cooled reactors  | . plasma core reactors                                  |
|         | . thermonuclear reactions                | experimental organic cooled  | . Pluto reactors  |
|         | nuclear fusion                           | reactors   | . thermal reactors                                      |
|         | controlled fusion                        | water cooled reactors  | . tokamak devices                                       |
| RT      | Bragg curve                              | boiling water reactors   | Joint European Torus                                    |
|         | Compton effect                           | experimental boiling water   | water moderated reactors                                |
|         | critical experiments                     | reactors   | experimental boiling water reactors                     |
|         | critical mass                            | Halden Boiling Water Reactor   | heavy water components test                             |
|         | electron scattering                      | Los Alamos Water Boiler  | reactors  |
|         | emission                                 | Reactor  | plutonium recycle test reactor                          |
|         | half life                                | Pathfinder nuclear reactor RT  | •   |
|         | high energy interactions                 | Spert reactors   | control rods  |
|         | inhour equation                          | heavy water reactors   | coolants  |
| ~       | interactions                             | heavy water components test  | fissile fuels   |
|         | internal conversion                      | reactors   | high flux beam reactors                                 |
|         | pair production                          | plutonium recycle test reactor   | inhour equation   |
|         | particle interactions                    | zero power reactor 2   | loss of coolant   |
|         | particle production                      | light water reactors   | moderators  |
|         | photoneutrons                            | NRX reactors   | ∞ nuclear energy  |

∞ piles ion engines ∞ nuclear energy radiation shielding magnetic nozzles projectiles reactor cores mercury ion engines rockets reactor design Phoebus nuclear reactor space weapons reactor materials Pluto reactors torpedoes reactor physics restartable rocket engines warheads reactor safety ∞ rockets weapon systems reactor startup tests sustainer rocket engines weapons delivery reactor technology nuclear scattering nuclease ∞ reactors SN (SCATTERING CAUSED BY NUCLEUS AND NOT BY ORBITAL ELECTRONS) GS biopolymers Rover project . proteins thermal neutrons nuclear reactions . . enzymes thermal pollution . nuclear scattering . . nuclease . . neutron scattering nuclear relaxation organic compounds . resonance scattering RT relaxation (mechanics) . proteins scattering . . enzymes . nuclear scattering nuclear research ... nuclease . . neutron scattering GS research . . resonance scattering nuclear research nucleate boiling angular distribution GS phase transformations high energy interactions backscattering laboratories . vaporizing coherent scattering . . boiling ∞ nuclear energy elastic scattering ... nucleate boiling plasma core reactors electron scattering radiochemistry . . Leidenfrost phenomenon forward scattering film boiling incoherent scattering nuclear research and test reactors heat transfer inelastic scattering DEF A class of nuclear reactors used to do heat transfer coefficients Mandelstam representation research into nuclear physics, reactor materials nucleation and design, and nuclear medicine. nuclear shielding nucleation materials testing reactors USE radiation shielding nuclear test reactors GS nucleation physical constants testing reactor . cloud seeding nuclear spin nuclear reactors accumulations GS spin . nuclear research and test Aitken nuclei . particle spin reactors atomic clusters . nuclear spin . . advanced test reactors condensation nuclei RT electron spin . . experimental boiling water reactors condensing energy levels . . Experimental Breeder Reactor 1 crystal growth Kondo effect . . Experimental Breeder Reactor 2 crystallization magnetic resonance . . experimental gas cooled reactors drop size Overhauser effect . . experimental organic cooled ∞ formation quantum numbers grain formation reactors quantum theory . . Health Physics Research Reactor heat treatment yrast state . . heavy water components test ice nuclei reactors initiation nuclear structure .. HERO Reactor inoculation energy levels . high temperature nuclear reactors jet condensers even-even nuclei ... high temperature gas cooled metal clusters odd-odd nuclei reactors molecular clusters . . Janus Reactor nucleate boiling nuclear test reactors . . KIWI reactors ∞ nuclei USE nuclear research and test reactors ... KIWI B reactors recrystallization . KIWI B-1 Reactor supercooling nuclear transformations . KIWI B-4 Reactor nuclear reactions . Livermore Pool Type Reactor . Los Alamos Molten Plutonium ∞ nuclei . nuclear transformations (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) active galactic nuclei Aitken nuclei transmutation Reactor military compact reactors nuclear vulnerability NRX reactors DEF The resistance of structures or materi-Plum Brook Reactor als to nuclear radiation or explosions. charged particles . . plutonium recycle test reactor vulnerability chromosomes GS sodium reactor experiment . nuclear vulnerability condensation nuclei Spert reactors penetration ice nuclei Tory 2 reactor radiation effects nucleation Tory 2-A reactor thermonuclear explosions nuclei (cytology) Tory 2-C reactor nuclei (nuclear physics) Tower Shielding Reactor 2 nuclear warfare nucleogenesis . . zero power reactor 2 GS warfare odd-odd nuclei . . zero power reactor 3 . nuclear warfare . . zero power reactor 6 civil defense nuclei (cytology) . zero power reactor 9 organelles hardening (systems) GS boiling water reactors . nuclei (cytology) ∞ nuclear energy cells (biology) neutron sources cytology cytoplasm reactor design nuclear warheads reactor technology GS weapons ∞ reactors . warheads genetics Transient Reactor Test Facility . . nuclear warheads ∞ nuclei nuclear rocket engines nuclei (nuclear physics) nuclear wastes DEF Rocket engines in which nuclear reac-The positively charged cores of atoms USE radioactive wastes tors are used as power sources or as sources of with which are associated practically the whole thermal energy. Used for thermionic reactors.

UF thermionic reactors mass of each atom but only a minute part of its nuclear weapons

GS

weapons

explosives missiles

nuclear weapons

. . fission weapons

. fusion weapons

bombs (ordnance)

volume.

GS particles

. charged particles

. . energetic particles

. . . . alpha particles

. . . . deuterons

... nuclei (nuclear physics)

GS

engines

. rocket engines

fusion propulsion

.. nuclear rocket engines

booster rocket engines

. . nuclear lightbulb engines

|                           | even-even nuclei  | ticles ac | ccording to mass, the second heaviest   | cobalt 58  |
|---------------------------|---|-----------|---|--|
|                           | heavy nuclei  | type of   | particles; their mass is intermediate   | cobalt 60  |
|                           | hypernuclei   |           | that of the meson and the hyperon.  | dysprosium isotopes  |
|                           | odd-even nuclei   | GS        | particles   | erbium isotopes  |
|                           | odd-odd nuclei  |           | . elementary particles  | europium isotopes  |
|                           | tritons   |           | nucleons  | fluorine isotopes  |
|                           | . corpuscular radiation energetic particles   |           | . nuclear particles nucleons  | gadolinium isotopes  |
|                           | nuclei (nuclear physics)  | RT        | alpha particles   | gallium isotopes   |
|                           | alpha particles   | 131       | antinucleons  | germanium isotopes   |
|                           | deuterons   |           | baryons   | gold isotopes  |
|                           | even-even nuclei  |           | charged particles   | gold 198   |
|                           | heavy nuclei  |           | fast neutrons   | hafnium isotopes   |
|                           | hypernuclei   |           | hyperons  | helium isotopes<br>holmium isotopes  |
|                           | odd-even nuclei   |           | neutrons  | hydrogen isotopes  |
|                           | odd-odd nuclei  |           | nuclei (nuclear physics)  | deuterium  |
| RT                        | tritons   |           | protons   | hydrogen 4   |
| KI                        | atoms corpuscular radiation   |           | vector dominance model  | metallic hydrogen  |
|                           | cosmic rays   | nucleo    | philes  | tritium  |
|                           | elementary particles  | GS        | electron attachment   | iodine isotopes  |
|                           | ions  |           | . nucleophiles  | iodine 125   |
|                           | isotopes  |           |   | iodine 131   |
|                           | neutrons  | nucleos   |   | iodine 132   |
|                           | nuclear isobars   | GS        | organic compounds   | iridium isotopes<br>iron isotopes  |
| ۰                         | ∘ nuclei  |           | . carbohydrates   | iron 57  |
|                           | nucleons  |           | glucosides<br>nucleosides   | iron 58  |
| ٥                         | o physics   |           | adenines  | iron 59  |
|                           | protons   |           | quanosines  | krypton isotopes   |
|                           | yrast state   | RT        | ribose  | krypton 85   |
| nucleic                   | acid denaturation   |           | thymidine   | lanthanum isotopes   |
| USE                       | biopolymer denaturation   |           | ,   | lead isotopes  |
|                           | . ,   |           | ynthesis  | lithium isotopes   |
| nucleic                   | acids   | USE       | nuclear fusion  | lutetium   |
| GS                        | acids   |           | ida.  | lutetium isotopes  |
|                           | nucleic acids   | nucleot   |   | magnesium isotopes manganese isotopes  |
|                           | deoxyribonucleic acid   | GS        | organic compounds . nucleotides   | mercury isotopes   |
|                           | complementary DNA ribonucleic acids   |           | adenines  | molybdenum isotopes  |
|                           | biopolymers   |           | adenosines  | neodymium isotopes   |
|                           | . nucleic acids   |           | adenosine diphosphate   | neon isotopes  |
|                           | deoxyribonucleic acid   |           | adenosine monophosphate   | nickel isotopes  |
|                           | complementary DNA   |           | adenosine triphosphate  | niobium isotopes   |
|                           | ribonucleic acids   |           | cyclic AMP  | niobium 95   |
|                           | organic compounds   |           | oligonucleotides  | nitrogen isotopes  |
|                           | . nucleic acids   |           | polynucleotides   | nitrogen 15  |
|                           | deoxyribonucleic acid   |           | pyridine nucleotides  | nitrogen 16  |
|                           | complementary DNA   | DT        | uridylic acid   | nobelium isotopes  |
|                           | . ribonucleic acids   | RT        | biopolymers   | osmium isotopes  |
| RT                        | biopolymer denaturation   |           | proteins  | oxygen isotopes<br>oxygen 17   |
|                           | guanosines  | nuclide   | 9   | oxygen 17  |
|                           | proteins<br>uridylic acid   | DEF       | Individual atoms of a given atomic  | palladium isotopes   |
|                           | undylic acid  |           | Z and mass number A.  | phosphorus isotopes  |
| nucleo                    | genesis   | GS        | chemical elements   | phosphorus 32  |
| RT                        | genetics  |           | . nuclides  | platinum isotopes  |
|                           | mutations   |           | isotopes  | polonium isotopes  |
| ۰                         | ∘ nuclei  |           | aluminum isotopes   | polonium 208   |
|                           |   |           | aluminum 26   | polonium 209   |
|                           | n potential   |           | aluminum 27   | polonium 210   |
| RT                        | neutrons  |           | antimony isotopes   | potassium isotopes   |
|                           | nuclear particles   |           | argon isotopes arsenic isotopes   | potassium 38<br>potassium 39   |
|                           | nuclear potential  potential  |           | barium isotopes   | potassium 39   |
| 0                         | o potential<br>protons  |           | beryllium isotopes  | praseodymium isotopes  |
| ۰                         | ∘ radiation   |           | beryllium 7   | promethium isotopes  |
|                           | - radiation   |           | beryllium 9   | protactinium isotopes  |
| nucleo                    | nics  |           | beryllium 10  | radioactive isotopes   |
| RT o                      | ∞ electronics   |           | bismuth isotopes  | astatine isotopes  |
| ۰                         | ∘ nuclear energy  |           | boron isotopes  | beryllium 7  |
|                           | nuclear physics   |           | boron 10  | beryllium 9  |
|                           | technologies  |           | bromine isotopes  | beryllium 10   |
|                           |   |           | cadmium isotopes  | carbon 14  |
|                           | n-nucleon interactions  |           | calcium isotopes  | cerium 137   |
| $\sim$                    |   |           | carbon isotopes carbon 12   | cerium 144<br>cesium 134   |
| GS                        | particle interactions   |           |   |  |
| GS                        | . elementary particle interactions  |           |   |  |
| GS<br>RT                  | . elementary particle interactions . nucleon-nucleon interactions   |           | carbon 13   | cesium 137   |
| RT                        | . elementary particle interactions  |           | carbon 13 carbon 14   |  |
| RT                        | elementary particle interactions nucleon-nucleon interactions charged particles   |           | carbon 13   | cesium 137<br>cesium 144   |
| RT                        | elementary particle interactions nucleon-nucleon interactions charged particles   |           | carbon 13 carbon 14 cerium isotopes   | cesium 137<br>cesium 144<br>cobalt 58  |
| RT                        | elementary particle interactions nucleon-nucleon interactions charged particles interactions n-nucleon scattering scattering  |           | carbon 13 carbon 14 cerium isotopes cerium 137  | cesium 137 cesium 144 cobalt 58 cobalt 60  |
| RT<br>nucleon<br>GS       | elementary particle interactionsnucleon-nucleon interactions charged particles interactions n-nucleon scattering scatteringnucleon-nucleon scattering   |           | carbon 13 carbon 14 cerium isotopes cerium 137 cerium 144 cesium isotopes cesium 133  | cesium 137 cesium 144 cobalt 58 cobalt 60 copper isotopes gold 198 indium isotopes   |
| RT .                      | elementary particle interactionsnucleon-nucleon interactions charged particles interactions n-nucleon scattering scatteringnucleon-nucleon scattering nuclear particles   |           | carbon 13 carbon 14 cerium isotopes cerium 137 cerium 144 cesium isotopes cesium 133 cesium 134   | cesium 137 cesium 144 cobalt 58 cobalt 60 copper isotopes gold 198 indium isotopes iodine 125                                  |
| RT<br>nucleon<br>GS       | elementary particle interactionsnucleon-nucleon interactions charged particles interactions n-nucleon scattering scatteringnucleon-nucleon scattering nuclear particles particle collisions                     |           | carbon 13 carbon 14 cerium isotopes cerium 137 cerium 144 cesium isotopes cesium 133 cesium 134 cesium 137                                    | cesium 137 cesium 144 cobalt 58 cobalt 60 copper isotopes gold 198 indium isotopes iodine 125 iodine 131                       |
| RT<br>nucleon<br>GS       | elementary particle interactionsnucleon-nucleon interactions charged particles interactions n-nucleon scattering scatteringnucleon-nucleon scattering nuclear particles   |           | carbon 13 carbon 14 cerium isotopes cerium 137 cerium 144 cesium isotopes cesium 133 cesium 134 cesium 137 cesium 144                         | cesium 137 cesium 144 cesium 144 cobalt 58 cobalt 60 copper isotopes gold 198 indium isotopes iodine 125 iodine 131 iodine 132 |
| RT<br>nucleon<br>GS<br>RT | elementary particle interactionsnucleon-nucleon interactions charged particles interactions n-nucleon scattering scatteringnucleon-nucleon scattering nuclear particles particle collisions Pomeranchuk theorem |           | carbon 13 carbon 14 cerium isotopes cerium 137 cerium 144 cesium isotopes cesium 133 cesium 134 cesium 137 cesium 144 cesium 144 cesium vapor | cesium 137 cesium 144 cobalt 58 cobalt 60 copper isotopes gold 198 indium isotopes iodine 125 iodine 131 iodine 132            |
| RT<br>nucleon<br>GS       | elementary particle interactionsnucleon-nucleon interactions charged particles interactions n-nucleon scattering scatteringnucleon-nucleon scattering nuclear particles particle collisions Pomeranchuk theorem |           | carbon 13 carbon 14 cerium isotopes cerium 137 cerium 144 cesium isotopes cesium 133 cesium 134 cesium 137 cesium 144                         | cesium 137 cesium 144 cesium 144 cobalt 58 cobalt 60 copper isotopes gold 198 indium isotopes iodine 125 iodine 131 iodine 132 |

## null hypothesis

| nitrogen 16                | xenon 133  | Born approximation                                |
|----------------------------|--|---|
| phosphorus 32              | xenon 135  | Born-Oppenheimer approximation                    |
| polonium 208               | ytterbium isotopes   | Chebyshev approximation                           |
| polonium 209               | yttrium isotopes   | Eddington approximation                           |
| polonium 210               | zinc isotopes  | essentially non-oscillatory                       |
| potassium 38               | zirconium isotopes   | schemes   |
| potassium 40               | zirconium 95   | finite difference theory                          |
| rubidium 86                | RT isotopic enrichment   | finite difference time domain                     |
| sodium 22                  | nuclear isobars  | method  |
| sodium 24                  | particle mass  | finite element method                             |
| strontium 85               | null hypothesis  | Hartree approximation                             |
| strontium 88               | GS hypotheses  | least squares method<br>mean square values        |
| strontium 89               | . null hypothesis  | Milne method                                      |
| strontium 90               | RT confidence limits   | multigrid methods                                 |
| transuranium elements      | degrees of freedom   | Newton methods                                    |
| americium                  | significance   | Newton-Raphson method                             |
| americium isotopes         | statistical tests  | boundary element method                           |
| americium 241              | oldifoliodi toolo  | discretization (mathematics)                      |
| berkelium                  | null zones   | numerical differentiation                         |
| californium                | GS regions   | Oseen approximation                               |
| californium isotopes       | . null zones   | Pade approximation                                |
| curium                     | RT diffraction patterns  | particle in cell technique                        |
| curium isotopes            | field theory (physics)   | Pohlhausen method                                 |
| curium 242                 | ∞ force  | predictor-corrector methods                       |
| curium 244                 | interferometry   | Rayleigh-Ritz method                              |
| einsteinium                | radiation distribution   | relaxation method (mathematics)                   |
| fermium                    | speckle interferometry   | Reynolds averaging                                |
| lawrencium                 | very long base interferometry                                      | Ritz averaging method                             |
| mendelevium                | ,                            | Schwartz method                                   |
| neptunium                  | number theory  | Sommerfeld approximation                          |
| neptunium isotopes         | GS number theory   | TVD schemes                                       |
| nobelium                   | . addition theorem   | upwind schemes (mathematics)                      |
| plutonium                  | . arithmetic   | vortex in cell technique                          |
| plutonium isotopes         | double precision arithmetic  | Trefftz method                                    |
| plutonium 238              | fixed point arithmetic   | boundary integral method                          |
| plutonium 239              | floating point arithmetic  | computational astrophysics                        |
| plutonium 240              | . congruences  | computational chemistry                           |
| plutonium 241              | . diophantine equation   | computational electromagnetics                    |
| plutonium 244              | . dividing (mathematics)   | computational fluid dynamics                      |
| sergenium                  | . exponents  | difference equations                              |
| tritium                    | . induction (mathematics)  | error analysis                                    |
| uranium 232                | . integers   | finite volume method                              |
| uranium 233<br>uranium 238 | . multiplication   | Godunov method                                    |
|                            | subtraction  | flux difference splitting                         |
| xenon 133                  | RT addition  | flux vector splitting                             |
| xenon 135                  | combinatorial analysis   | Glimm method                                      |
| zirconium 95               | decimals   | Graeff calculus                                   |
| radium isotopes radium 226 | digits   | interpolation                                     |
| radon isotopes             | ∞ division   | iteration   |
| rhenium isotopes           | enumeration  | conjugate gradient method                         |
| rhodium isotopes           | Fibonacci numbers  | iterative solution                                |
| rubidium isotopes          | functions (mathematics)  | Newton methods                                    |
| rubidium 86                | ∞ induction  | Newton-Raphson method                             |
| ruthenium isotopes         | infinity   | predictor-corrector methods                       |
| samarium isotopes          | ∞ mathematics  | Monte Carlo method                                |
| scandium isotopes          | ∞ numbers  | nomographs  |
| selenium isotopes          | quaternions  | numerical integration<br>Runge-Kutta method       |
| silicon isotopes           | subgroups  | direct numerical simulation                       |
| silver isotopes            | ∞ theories   | space-time CE/SE method                           |
| sodium isotopes            | uniqueness theorem   | truncation errors                                 |
| sodium 22                  | numboro  | RT adjoints                                       |
| sodium 24                  |  | algorithms  |
| strontium isotopes         | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS | alternating direction implicit methods            |
| strontium 85               | LISTED BELOW)  | ∞ analyzing                                       |
| strontium 87               | RT alphanumeric characters   | ∞ applications of mathematics                     |
| strontium 89               | Biot number  | asymptotes  |
| strontium 90               | complex numbers  | computational grids                               |
| sulfur isotopes            | coordination number  | computer programming                              |
| tantalum isotopes          | counting   | Crank-Nicholson method                            |
| technetium isotopes        | Damkohler number   | differential equations                            |
| tellurium                  | decimals   | ill-conditioned problems                          |
| tellurium isotopes         | digits   | (mathematics)                                     |
| terbium isotopes           | dimensionless numbers  | ill-posed problems (mathematics)                  |
| thallium isotopes          | double precision arithmetic  | isoparametric finite elements                     |
| thorium isotopes           | Fibonacci numbers  | linear programming                                |
| thulium isotopes           | integers   | mathematical tables                               |
| tin isotopes               | number theory  | ∞ mathematics                                     |
| titanium isotopes          | quantum numbers  | method of moments                                 |
| tungsten isotopes          | random numbers   | significance                                      |
| uranium isotopes           | real numbers   | spatial marching                                  |
| uranium 232                | numerical analysis   | time marching                                     |
| uranium 233<br>uranium 234 | numerical analysis  DEF Study of approximation methods using       | trajectory analysis                               |
| uranium 234<br>uranium 235 | arithmetic techniques for the solution of math-                    |   |
| uranium 235                | ematical problems.   | numerical aperture                                |
| vanadium isotopes          | ematical problems.  GS analysis (mathematics)                      | numerical aperture<br>(added January 1995)        |
| xenon isotopes             | . numerical analysis   | DEF The sine of the vertex angle of the           |
| xenon 129                  | approximation  | largest cone of meridional rays that can enter or |
| AGHOH 123                  | αρριολιπαιίοπ  | iargest come of mendional rays that can effet of  |

leave an optical system or element, multiplied by the refractive index of the medium in which the vertex of the cone is located. Generally measured with respect to an object or image point, and will vary as that point is moved.

GS openings

. apertures

#### . numerical aperture

fiber optics geometrical optics lenses optical coupling optical fibers optical properties

#### numerical control

computerized control automatic control . numerical control

resolution

RT ∞ automation

computer programs

∞ control

control systems design digital command systems digital techniques electric control interactive control machine tools

production engineering sequential control standardization

#### numerical data bases

data bases GS

numerical data bases information retrieval

on-line systems

#### numerical differentiation

DEF Approximate estimation of a derivative of a function by numerical techniques.
GS analysis (mathematics)

. numerical analysis

. . approximation

... numerical differentiation

. real variables

. numerical differentiation

algorithms

computer techniques differential calculus differential equations

estimating

functions (mathematics)

∞ theories

### numerical flow visualization

GS flow visualization

numerical flow visualization

information analysis

. scientific visualization

. numerical flow visualization

computational fluid dynamics computerized simulation flow distribution hydraulic analogies

#### numerical integration

Cowell method

analysis (mathematics)

. numerical analysis

. . numerical integration

. . . Runge-Kutta method . real variables

. . measure and integration

... numerical integration

. . Runge-Kutta method RT differential equations

digital integrators integral calculus

## numerical stability

GS stability

. numérical stability

approximation backward differencing difference equations differential equations ill-conditioned problems (mathematics)

ill-posed problems (mathematics) strange attractors

#### numerical weather forecasting

GS meteorology

. weather forecasting

. numerical weather forecasting

predictions . forecasting

. . weather forecasting

numerical weather forecasting

Atmospheric General Circulation

Models atmospheric models

aviation meteorology computerized simulation long range weather forecasting mathematical models statistical weather forecasting

#### nunataks

landforms GS . islands . nunataks RT Arctic regions rocks sea ice

#### Nusselt number

DEF A number expressing the ratio of convective to conductive heat transfer between a solid boundary and a moving fluid, defined as hl/k where h is the heat transfer coefficient, I is the characteristic length, and k is the thermal conductivity of the fluid. (Named after Wilhelm Nusselt, German engineer.)

dimensionless numbers

Nusselt number ratios

Nusselt number

Brinkman number convective heat transfer

heat transfer Prandtl number Schmidt number

#### nutation

The oscillation of the axis of any rotating body, as a gyroscope rotor. Specifically, in astronomy, irregularities in the precessional motion of the equinoxes because of varying positions of the moon and, to a lesser extent, of other celestial bodies with respect to the ecliptic. Used for nutational oscillation.

nutational oscillation

GS nutation

. Chandler wobble

actuation coning motion displacement

∞ dynamics Earth orientation

kinematics libration librational motion

∞ motion perturbation

polar wandering (geology)

precession rotation vibration

#### nutation dampers

RT control moment gyroscopes ∞ dampers oscillation dampers spacecraft stability

nutational oscillation USE nutation

#### nutrients

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) RT

aquiculture caloric requirements carbohydrates eutrophication fats fatty acids

fishes life support systems lipid metabolism lipids minerals

nutritional requirements proteins trace elements vitamins

nutrition

#### nutrition

RT biochemistry broths caloric requirements diets  $\infty$  food metabolism nitrogen metabolism

> nutritional requirements space flight feeding

#### nutritional requirements

nutritional requirements

caloric requirements atrophy ∞ nutrients nutrition

space flight feeding synthetic food

#### nuts (fasteners)

fasteners

. nuts (fasteners)

RT anchors (fasteners) bolts holders screws threads

#### nuts (fruits)

RT angiosperms orchards seeds

### Nylon (trademark)

GS fibers

. synthetic fibers

. Nylon (trademark) plastics

. synthetic resins

. . thermosetting resins . . . furan resins

. . . . polyamide resins . . . . . Nylon (trademark)

resins . synthetic resins

... thermosetting resins . . . furan resins

.... polyamide resins . . Nylon (trademark)

RT polymeric films ∞ polymers

nylon resins

USE polyamide resins

#### Nyquist diagram

diagrams GS

. Nyquist diagram control stability transfer functions

#### Nyquist frequencies

GS frequencies

**Nyquist frequencies** RT linear receivers

#### nystagmus

DEF An involuntary oscillation of the eyeballs, especially occurring as a result of eye fixations and stimulations of the inner ear during rotation of the body.

eye movements

#### . nystagmus

. vestibular nystagmus electronystagmography eye (anatomy)

| O ring s | seals                             |          | . astronomical observatories             | RT       | ellipticity                                |
|----------|-----------------------------------|----------|--|----------|--|
| GS       | seals (stoppers)                  |          | astronomical satellites                  |          | fineness ratio                             |
|          | . O ring seals                    |          | OAO                                      |          | flattening                                 |
| RT       | gaskets                           |          | OAO 3                                    |          | geodesy                                    |
|          | glands (seals)                    | RT       | Atlas Centaur launch vehicle             |          | geoids                                     |
|          | hermetic seals                    |          |  |          | prolate spheroids                          |
|          | labyrinth seals                   | 0404     |  |          | shapes                                     |
| 00       | rings                             | 0A0-A    | 0404                                     |          | solar oblateness                           |
|          | Space Shuttle Boosters            | USE      | OAO 1                                    |          |  |
|          | •                                 |          |  | oblique  | coordinates                                |
| O stars  |                                   | OAO-A2   |  |          | Magnitudes defining a point relative to    |
| GS       | celestial bodies                  | USE      | OAO 2                                    |          | ersecting nonperpendicular lines, called   |
|          | . stars                           |          |  | axes.    | recoming memperperial called miles, called |
|          | early stars                       | OAO-C    |  | GS       | coordinates                                |
|          | hot stars                         | USE      | OAO 3                                    |          | . oblique coordinates                      |
|          | O stars                           | 002      | 0,10 0                                   | RT       | Cartesian coordinates                      |
| RT       | blue stars                        |          |  |          |  |
|          | Population I stars                | oases    |  | oblique  | shock waves                                |
|          | Wolf-Rayet stars                  | RT       | aquifers                                 |          | Shock waves attached to the bow and        |
|          |                                   |          | arid lands                               |          | an aerodynamic vehicle moving faste        |
|          | lge isochronous cyclotron         |          | desertification                          |          | e speed of sound. The sides of the         |
| UF       | ORIC cyclotron                    |          | deserts                                  |          | shock waves form the Mach cone.            |
| GS       | particle accelerators             |          | potable water                            |          | elastic waves                              |
|          | . cyclotrons                      |          | springs (water)                          | 00       | . shock waves                              |
|          | Oak Ridge isochronous             |          | vegetation                               |          | oblique shock waves                        |
|          | cyclotron                         |          | wells                                    | RT       | magnetohydrodynamic waves                  |
|          |                                   |          |  | IXI      | normal shock waves                         |
| OAO      | 0.1%                              | oats     |  |          | shock layers                               |
| UF       | Orbiting Astronomical Observatory | GS       | farm crops                               |          |  |
| 00       | S-18 satellite                    |          | . grains (food)                          |          | supersonic compressors                     |
| GS       | artificial satellites             |          | oats                                     | - L. I   | wings                                      |
|          | . scientific satellites           |          | plants (botany)                          | oblique  |  |
|          | astronomical satellites           |          | . oats                                   | GS       | airfoils                                   |
|          | OAO                               | RT       | agriculture                              |          | . wings                                    |
|          | OAO 1                             |          | botany                                   |          | oblique wings                              |
|          | OAO 2                             |          | crop growth                              | RI       | aerodynamic configurations                 |
|          | OAO 3                             |          | crop vigor                               |          | aircraft parts                             |
|          | observatories                     |          | curing                                   |          | aircraft structures                        |
|          | astronomical observatories        |          | Earth resources                          |          | drone aircraft                             |
|          | astronomical satellites           | ~        | ofood                                    |          | pilotless aircraft                         |
|          | OAO                               |          | grasses                                  |          | remotely piloted vehicles                  |
|          | OAO 1                             |          | irrigation                               |          | wing planforms                             |
|          | OAO 2                             |          | seeds                                    |          |  |
|          | OAO 3                             |          |  | oblique  |  |
| RΙ       | Agena B rocket vehicle            | 01       |  |          | The state of being neither perpendicu      |
|          | Atlas launch vehicles             | Oberon   |  |          | norizontal.                                |
|          | HEAO                              |          | A satellite of Uranus orbiting at a mean | RT       | angles (geometry)                          |
|          | HEAO 1                            |          | of 587,000 kilometers.                   |          | incident radiation                         |
|          | HEAO 2                            | GS       | celestial bodies                         |          |  |
|          | HEAO 3                            |          | . natural satellites                     | obscura  | ntion                                      |
|          | manned orbital telescopes         |          | Uranus satellites                        | USE      | occultation                                |
| 0404     |                                   |          | Oberon                                   |          |  |
| OAO 1    | 040.4                             | RT       | Uranus (planet)                          | observ   | ability (systems)                          |
| UF       | OAO-A                             |          |  |          | The property of a system for which         |
| GS       | artificial satellites             | obesity  |  |          | itions of the output variables always is   |
|          | . scientific satellites           | RT       | body fluids                              |          | nt to determine the initial values of al   |
|          | astronomical satellites           |          | body measurement (biology)               | state va |  |
|          | OAO                               |          | body size (biology)                      | RT       | boundary value problems                    |
|          | OAO 1                             |          | body volume (biology)                    |          | control theory                             |
|          | observatories                     |          | body weight                              |          | dependent variables                        |
|          | . astronomical observatories      |          | metabolism                               |          | feedback control                           |
|          | astronomical satellites           |          |  |          | independent variables                      |
|          | OAO<br><b>OAO 1</b>               | abiaat : | programs                                 |          | observation                                |
| DT       |                                   | GS GS    | computer programs                        |          | parameter identification                   |
| RT       | Atlas Centaur launch vehicle      | 63       | . object programs                        |          | state vectors                              |
| OAO 2    |                                   |          | . Object programs                        |          | system identification                      |
| UF       | OAO-A2                            |          |  | ۰        | ∘ systems                                  |
| GS       | artificial satellites             |          | priented programming                     |          | systems analysis                           |
| GS       | . scientific satellites           |          | ed October 1991)                         |          | systems engineering                        |
|          | astronomical satellites           |          | The use of a programming language        |          | .,   |
|          | OAO                               |          | ng of a sequence of commands directed    | observa  | ation                                      |
|          | OAO 2                             | at objec |  | GS       |  |
|          | observatories                     | GS       | computer programming                     | 00       | . Earth observations (from space)          |
|          | . astronomical observatories      |          | . object-oriented programming            |          | satellite observation                      |
|          | astronomical satellites           | RT       | Ada (programming language)               |          | . radio observation                        |
|          | OAO                               |          | C++ (programming language)               |          | . sky surveys (astronomy)                  |
|          | OAO 2                             |          | Java (programming language)              |          | . space observations (from Earth)          |
| RT       | Atlas Centaur launch vehicle      |          | software development tools               |          | . visual observation                       |
| 131      | Johnson voido                     |          | software engineering                     | RT       | counting                                   |
| OAO 3    |                                   |          |  | 111      | data acquisition                           |
| UF       | Copernicus spacecraft             | oblate s | spheroids                                |          | detection                                  |
| ٠.       | OAO-C                             | DEF      | Ellipsoids of revolution, the shorter    |          | evaluation                                 |
| GS       | artificial satellites             |          | which is the axis of revolution.         |          | examination                                |
|          | . scientific satellites           | GS       | geometry                                 |          | forest fire detection                      |
|          | astronomical satellites           |          | . Euclidean geometry                     |          | NOESS                                      |
|          | OAO                               |          | analytic geometry                        |          | observability (systems)                    |
|          | OAO 3                             |          | spheroids                                | ۰        | operformance                               |
|          | observatories                     |          | oblate spheroids                         | · ·      | reconnaissance                             |
|          |                                   |          |  |          |  |

| surveillance  | Astroplane  | RT degassing   |
|---|---|--|
| observation aircraft  | ROSAT mission                                     | gas-metal interactions                                 |
| GS observation aircraft                                       | SOFIA (airborne observatory)                      | gas-solid interfaces solidification                    |
| . Cessna L-19 aircraft  | solar observatories<br>OSO                        | Solidification   |
| . OH-4 helicopter   | AOSO  | occultation  |
| . OH-5 helicopter   | OSO-1   | DEF The disappearance of a body behind                 |
| . OH-6 helicopter   | OSO-2   | another body of larger apparent size. Used for         |
| . OV-1 aircraft   | OSO-3   | obscuration.   |
| . OV-10 aircraft  | OSO-4   | UF obscuration   |
| RT ∞ aircraft   | OSO-5   | GS occultation   |
| antisubmarine warfare aircraft                                | OSO-6   | . lunar occultation                                    |
| arc clouds  | OSO-7   | solar eclipses   |
| balloons  | OSO-8   | . radio occultation                                    |
| flying platforms  | OSO-C   | . stellar occultation                                  |
| gliders   | Pinhole Occulter Facility                         | RT ∞ conjunction                                       |
| HS-801 aircraft light aircraft                                | STEREO (observatory)                              | eclipses   |
| 3   | European Southern Observatory                     | extinguishing  |
| light helicopters<br>∞ military aircraft                      | LIGO (observatory)<br>. geophysical observatories | Pinhole Occulter Facility<br>∞ transit                 |
| reconnaissance aircraft                                       | OGO   | ~ transit  |
| utility aircraft  | EGO   | occupation   |
| weather reconnaissance aircraft                               | OGO-3   | RT industrial safety                                   |
|   | OGO-5   | personnel  |
| observation scheduling  | OGO-A   | work   |
| (added November 2002)   | POGO  |  |
| DEF The development of chronologies and                       | OGO-4   | occupational diseases                                  |
| observational plans for remote-sensing satel-                 | OGO-6   | GS diseases  |
| lites, astronomical and planetary observatories,              | OGO-C   | occupational diseases                                  |
| and other observational platforms.                            | OSO   | RT anemias   |
| GS scheduling   | AOSO  | carbon monoxide poisoning                              |
| . observation scheduling                                      | OSO-1   | cataracts  |
| RT astronomical observatories                                 | OSO-2   | emphysema  |
| Earth observations (from space) mission planning              | OSO-3   | hazards  |
| remote sensing  | 080-4   | health physics   |
| space observations (from Earth)                               | 0\$0-5  | lead poisoning<br>leukemias                            |
| space observations (nom Latin)                                | 080-6   | operational hazards                                    |
| observatories   | OSO-7   | public health  |
| GS observatories  | OSO-8<br>OSO-C                                    | pulmonary lesions                                      |
| . astronomical observatories                                  | . Glory Mission satellite                         | radiation hazards                                      |
| astronomical satellites                                       | . Jodrell Bank Observatory                        | toxic hazards  |
| Astronomical Netherlands                                      | . Kuiper Airborne Observatory                     | tumors   |
| Satellite   | . lunar observatories                             |  |
| Gamma Ray Observatory   | RT artificial satellites                          | occurrences  |
| Ginga satellite   |   | RT events  |
| HEAO  | obsidian  |  |
| HEAO 1  | GS rocks  | ocean bottom   |
| HEAO 2  | . igneous rocks                                   | RT beds (geology)                                      |
| HEAO 3<br>HEAO 4  | obsidian  | continental shelves                                    |
| Hubble Space Telescope  | moldavite   | core sampling  |
| Infrared Astronomy Satellite                                  | RT glass  | cratons<br>deep water                                  |
| Infrared Astronomy Satellite Infrared Space Observatory (ISO) | minerals  | geology  |
| IUE   | powder (particles)                                | marine chemistry                                       |
| Large Deployable Reflector                                    | pumice<br>silicon dioxide                         | mid-ocean ridges                                       |
| Magellan ultraviolet astronomy                                |   | mud  |
| satellite   | SOIIS   | oceanography   |
| OAO   | obsidian glass                                    | sea floor spreading                                    |
| OAO 1   | GS glass  | seamounts  |
| OAO 2   | . obsidian glass                                  | sediments  |
| OAO 3   | <b>3</b>  | sludge   |
| OSO   | obstacle avoidance                                | submarine hydrothermal vents                           |
| AOSO  | DEF The use of sensors utilizing laser trian-     | underwater resources                                   |
| OSO-1   | gulation as means of preventing collisions, es-   |  |
| OSO-2   | pecially in the operation of roving vehicles on   | ocean color scanner                                    |
| OSO-3   | planetary surfaces.                               | DEF A multispectral scanning radiometer                |
| OSO-4   | RT aircraft maneuvers                             | which is geared to observe ocean features such         |
| OSO-5   | evasive actions                                   | as chlorophyll, sediments, and topography in the       |
| OSO-6<br>OSO-7  | tactics   | invisible and thermal ranges of radiation. GS scanners |
| OSO-7   | terrain following                                 | . ocean color scanner                                  |
| OSO-C   | vulnerability                                     | Coastal Zone Color Scanner                             |
| Quasat  | obstacles   | Sea-viewing Wide Field-of-view                         |
| SAS   | USE <b>barriers</b>                               | Sensor   |
| Explorer 53 satellite   | OCE Barriers                                      | RT chlorophylls  |
| SAS-1   | obstructing                                       | coastal water  |
| SAS-2   | USE blocking                                      | colorimetry  |
| SAS-3   | · ·   | multispectral band scanners                            |
| Constellation-X   | occipital lobes                                   | ocean data acquisitions systems                        |
| James Webb Space Telescope                                    | GS anatomy  | oceanographic parameters                               |
| LISA (observatory)  | . nervous system                                  | oceanography   |
| Space Infrared Telescope Facility                             | central nervous system                            | photomapping   |
| Spartan satellites  | brain   | remote sensors   |
| Submillimeter Wave Astronomy                                  | cerebrum  | water color  |
| Satellite   | occipital lobes                                   |  |
| Swift observatory   |   | ocean currents   |
| Tenma satellite   | occlusion   | GS circulation   |
| X Ray Astrophysics Facility                                   | DEF Specifically, the trapping of undis-          | . water circulation                                    |
| XMM-Newton telescope  | solved gas in a solid during solidification.      | water currents   |

| ocean currents                             | sea states   | bay ice                            |
|--|--|------------------------------------|
| coastal currents                           |  | breakwaters                        |
| el Nino                                    | ocean surface  | coastal currents                   |
| Gulf Stream                                | RT Earth surface   | Coastal Zone Color Scanner         |
| Lomonosov current                          | fluid flow   | core sampling                      |
| RT core sampling                           | hydrography  | deep scattering layers             |
| ∞ currents                                 | ocean dynamics   | deep water                         |
| fluid flow                                 | oceanography   | deepwater terminals                |
| frontal waves                              | oceanography<br>polynyas   | Earth & Ocean Physics Applications |
| gyres                                      | Sargasso Sea   | Program                            |
| hydrography                                | sea level  | Earth planetary structure          |
| Kelvin waves                               | sea roughness  | Earth resources                    |
| littoral drift                             | sea states   | Earth sciences                     |
| littoral transport                         | sea surface temperature  | environmental monitoring           |
| ocean dynamics                             | sea truth  | EROS (satellites)                  |
| oceanography<br>oceans                     | sea water  | estuaries                          |
| pressure ice                               | Sea-viewing Wide Field-of-view   | fiords                             |
| salinity                                   | Sensor   | frontal waves                      |
| Spitsbergen (Norway)                       | storm surges   | GARP Atlantic Tropical Experiment  |
| thermohaline circulation                   | ∞ surfaces   | geography                          |
| tidal waves                                | tidal waves  | geology                            |
| tide powered generators                    | tide powered generators  | geophysics                         |
| tide powered machines                      | tide powered machines  | gyres                              |
| tidepower                                  | tidepower  | harbors                            |
| tides                                      | tides  | hydroclimatology                   |
| TOPEX                                      | TOPEX  | hydrography                        |
| upwelling water                            | waterwave energy conversion  | hydrology                          |
| waterwave energy conversion                | waterwave powered machines   | ice floes                          |
| waterwave powered machines                 | ·  | ice mapping                        |
|  | ocean temperature  | isthmuses                          |
| ocean data acquisitions systems            | DEF Surface or subsurface temperature of   | Landsat satellites                 |
| UF ocean data platforms                    | an entire or specific region of an ocean.  | marine biology                     |
| ocean data stations                        | GS oceanographic parameters  | marine environments                |
| ODAS                                       | . ocean temperature  | marine meteorology                 |
| RT Argos system                            | sea surface temperature  | marine resources                   |
| automatic weather stations                 | temperature  | marine technology                  |
| buoys                                      | . water temperature  | marshlands                         |
| Coastal Zone Color Scanner                 | ocean temperature  | meteorology                        |
| ∞ data                                     | sea surface temperature  | mid-ocean ridges                   |
| data acquisition                           | RT el Nino   | ocean bottom                       |
| ground stations                            | oceanography   | ocean color scanner ocean currents |
| instrument packages                        | oceans   |                                    |
| meteorological parameters                  | offshore energy sources  | ocean dynamics<br>ocean models     |
| ocean color scanner                        | sea states   | ocean surface                      |
| oceanographic parameters                   | sea truth  | ocean temperature                  |
| ships                                      | sea water  | oceans                             |
| transoceanic systems                       | seas   | offshore docking                   |
| underwater research laboratories           | solar sea power plants   | offshore platforms                 |
| weather stations                           | surface temperature temperature distribution   | oil slicks                         |
|  | temperature gradients  | pelagic zone                       |
| ocean data platforms                       | thermal pollution  | ∞ physical sciences                |
| USE ocean data acquisitions systems        | thermohaline circulation   | red tide                           |
|  | thermonaline officiation   | reefs                              |
| ocean data stations                        | ocean thermal energy conversion  | Sargasso Sea                       |
| USE ocean data acquisitions systems        | GS energy conversion   | ∞ science                          |
|  | . ocean thermal energy conversion  | sea grasses                        |
| ocean dynamics                             | RT ∞ conversion  | sea ice                            |
| DEF The study of the controlling forces in | ∞ energy sources   | sea level                          |
| different ocean phenomena.                 | geothermal energy conversion   | sea roughness                      |
| RT air water interactions                  | geothermal technology  | sea states                         |
| dynamic characteristics                    | renewable energy   | sea surface temperature            |
| ∞ dynamics                                 | solar sea power plants   | sea water                          |
| fluid dynamics                             | temperature  | seas                               |
| hydrodynamics                              |  | SEASAT 1                           |
| ocean currents<br>ocean models             | oceanographic parameters   | SEASAT program                     |
| ocean surface                              | GS oceanographic parameters  | SEASAT satellites                  |
| oceanography                               | . ocean temperature  | SEASAT-B satellite                 |
| QuikSCAT satellite                         | sea surface temperature  | seaweeds                           |
| thermohaline circulation                   | RT Atmospheric & Oceanographic Inform  | shallow water                      |
| water waves                                | Sys  | shipyards                          |
| water waves                                | Coastal Zone Color Scanner   | shoals                             |
| ocean floor spreading                      | hindcasting  | shorelines                         |
| USE sea floor spreading                    | integrated global ocean station  | storm surges                       |
| OSL Sea Hoor spreading                     | systems  | submarine hydrothermal vents       |
| ocean models                               | meteorological parameters  | tanker terminals<br>thermoclines   |
| GS models                                  | ocean color scanner  | tidal waves                        |
|  | ocean data acquisitions systems  |                                    |
| . ocean models RT air water interactions   | ocean surface<br>salinity  | tide powered generators tidepower  |
| atmospheric models                         | •  | tides                              |
| climate models                             | sea states   | TOPEX                              |
| dynamic models                             | oceanography   | topography                         |
| marine environments                        | DEF The science that deals with the study  | underwater research laboratories   |
| mathematical models                        | and exploration of seas and oceans.  | underwater resources               |
| ocean dynamics                             | RT artificial harbors  | water circulation                  |
| oceanography                               | Atmospheric & Oceanographic Inform   | water currents                     |
| Sargasso Sea                               | Sys  | waterfowl                          |
| sea roughness                              | bathymeters  | waterwave energy                   |
| • • • •                                    | · Control of the cont |                                    |

waterwave energy conversion . octoates gases octol (explosive) offgassing oceans GS explosives octol (explosive) DEF The relative high mass loss character-DEF The continuous salt water bodies that istic of many nonmetallic materials upon initial surround the continents and fill the Earth's great vacuum exposure. depressions. octopuses ĠS degassing oceans GS animals . Antarctic Ocean vacuum . invertebrates . Arctic Ocean . Atlantic Ocean vacuum effects . . mollusks ... cephalopods . extraterrestrial oceans . Indian Ocean .... octopuses office automation . Pacific Ocean RT ∞ automation ocular circulation coastal currents man machine systems circulation GS coastal water word processing blood circulation coasts . . ocular circulation deep water Earth hydrosphere Office of Space & Terrestr Applic Payloads oculogravic illusions geography USE OSTA-1 payload psychological effects keys (islands) OSTA-2 payload . illusions marine resources OSTA-3 payload . . oculogravic illusions nearshore water gravireceptors ocean currents otolith organs ocean temperature off-on control vertical perception oceanography DEF Flicker control, especially as applied to seas rockets. Used for bang-bang control. oculometers seaweeds bang-bang control GS measuring instruments shallow water automatic control optical measuring instruments shoals . off-on control . oculometers shorelines  $RT \, \infty \, control$ optical equipment control equipment sounds (topographic features) . optical measuring instruments thermal pollution control theory proportional control . oculometers tidal flats RT eye movements tide powered generators servocontrol ∞ instruments water color solenoid valves optical tracking water depth water resources oculomotor nerves waterwave energy conversion offshore docking GS anatomy GS maneuvers . nervous system Octahedral Research Satellites . docking . . nerves USE Environmental Research Satellites . offshore docking ... oculomotor nerves artificial harbors . sense organs octahedrite cargo ships . . eye (anatomy) deepwater terminals USE anatase . oculomotor nerves marine technology RT vision marine transportation octahedrons oceanography geometry ODAS ship terminals . Euclidean geometry ocean data acquisitions systems USE tanker ships . . polyhedrons tanker terminals ... octahedrons odd-even nuclei ∞ tankers GS particles terminal facilities . charged particles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) transportation SN . . energetic particles . . . nuclei (nuclear physics) antiknock additives .... odd-even nuclei offshore energy sources octanes . corpuscular radiation RT crude oil . . energetic particles deepwater terminals octane number ... nuclei (nuclear physics) drilling RT gasoline ... odd-even nuclei energy technology even-even nuclei marine technology odd-odd nuclei octanes ocean temperature (ACYCLIC HYDROCARBONS) oil exploration organic compounds odd-odd nuclei oil fields hydrocarbons GS particles sea breeze aliphatic hydrocarbons . charged particles seepage . . . alkanes . . energetic particles . . . octanes ... nuclei (nuclear physics) RT antiknock additives . . odd-odd nuclei offshore platforms ∞ octane . corpuscular radiation RT artificial harbors cargo ships . . energetic particles ... nuclei (nuclear physics) deepwater terminals The intervals between two frequencies ... odd-odd nuclei marine technology having the ratio 1:2. even-even nuclei oceanography range (extremes) nuclear structure ∞ platforms . frequency ranges ∞ nuclei tanker ships octaves odd-even nuclei tanker terminals acoustics ∞ tankers music Odessa meteorite terminal facilities GS celestial bodies transportation octets . meteorites . . iron meteorites GS valence octets ... Odessa meteorite offshore reactor sites RT atomic structure GS sites chemical bonds

odors

octoates

GS esters

air pollution

exhaust gases

combustion products

. offshore reactor sites

reactor design

reactor safety

reactor technology

|                  | remote regions                                 |          | POGO  |                | light aircraft                                |
|------------------|--|----------|---|----------------|---|
| OFT              |  | DT       | OGO-4                                       |                | . light helicopters                           |
| USE              | Space Transportation System                    | RT       | geodesy                                     |                | OH-5 helicopter observation aircraft          |
| OOL              | flights  | OGO-5    |   |                | . OH-5 helicopter                             |
| 057.4            |  | UF       | OGO-E                                       |                | passenger aircraft                            |
| OFT 1<br>USE     | Space Transportation System 1                  | GS       | artificial satellites                       |                | OH-5 helicopter                               |
| UUL              | flight   |          | . geophysical satellites OGO                |                | V/STOL aircraft . rotary wing aircraft        |
|                  | 3  |          | <b>OGO-</b> 5                               |                | helicopters                                   |
| OFT 2            | Constant Contant C                             |          | observatories                               |                | light helicopters                             |
| USE              | Space Transportation System 2 flight           |          | . geophysical observatories                 |                | OH-5 helicopter                               |
|                  | g.n.   |          | <b>0GO</b><br><b>0GO-5</b>                  |                | military helicopters OH-5 helicopter          |
| OFT 3            | 0 T  | RT       | geodesy                                     | RT             | rigid rotor helicopters                       |
| USE              | Space Transportation System 3 flight           |          |   |                | g.a vasa manaapaasa                           |
|                  | mgm  | OGO-6    | 000 5                                       |                | elicopter                                     |
| OFT 4            |  | UF<br>GS | OGO-F<br>artificial satellites              | UF             | HO-6 helicopter                               |
| USE              | Space Transportation System 4                  | 00       | . geophysical satellites                    | GS             | LOH helicopter Hughes aircraft                |
|                  | flight   |          | OGO   |                | . OH-6 helicopter                             |
| ogee sh          | nape   |          | POGO  |                | light aircraft                                |
| GS               | shapes   |          | observatories                               |                | light helicopters                             |
| DT               | . ogee shape                                   |          | . geophysical observatories                 |                | OH-6 helicopter observation aircraft          |
| RT               | variable sweep wings                           |          | . OGO                                       |                | . OH-6 helicopter                             |
| ogee wi          | ngs  |          | POGO  |                | V/STOL aircraft                               |
| USE              | variable sweep wings                           |          | OGO-6                                       |                | . rotary wing aircraft                        |
| ogives           |  | OGO-A    |   |                | helicopters light helicopters                 |
| DEF              | Bodies of revolution formed by rotating        | UF       | S-49 satellite                              |                | OH-6 helicopter                               |
| a circula        | ar arc about an axis that intersects the       | GS       | artificial satellites                       |                | military helicopters                          |
|                  | shape of these bodies; also noses of           |          | . geophysical satellites                    |                | OH-6 helicopter                               |
| projectile<br>RT | es or the like so shaped. bodies of revolution |          | <b>0GO</b><br><b>0GO-A</b>                  | 011.40         | La Para de la                                 |
| KI               | ellipsoids                                     |          | observatories                               | <b>OH-13</b> I | h <b>elicopter</b><br>H-13 helicopter         |
|                  | fairings                                       |          | . geophysical observatories                 | O1             | Sioux helicopter                              |
|                  | nose cones                                     |          | OGO   |                | UH-13 helicopter                              |
|                  | spheres  | RT       | OGO-A<br>Atlas Agena launch vehicles        | GS             | Bell aircraft                                 |
|                  | streamlined bodies<br>symmetrical bodies       | IXI      | Alias Ageria laurion verilicies             |                | . OH-13 helicopter                            |
|                  | Symmetrical bodies                             | OGO-B    |   |                | light aircraft . OH-13 helicopter             |
| OGO              |  | USE      | OGO-3                                       |                | V/STOL aircraft                               |
| UF               | Orbiting Geophysical Observatory               | OGO-C    |   |                | . rotary wing aircraft                        |
| GS               | artificial satellites . geophysical satellites | UF       | S-50 satellite                              |                | helicopters                                   |
|                  | OGO  | GS       | artificial satellites                       |                | military helicopters OH-13 helicopter         |
|                  | EGO  |          | . geophysical satellites                    |                | Off to hencopie                               |
|                  | OGO-3  |          | POGO  | OH-23          | helicopter                                    |
|                  | OGO-5<br>OGO-A                                 |          | <b>0G0-C</b>                                | UF             | H-23 helicopter                               |
|                  | POGO   |          | observatories                               |                | Raven helicopter                              |
|                  | OGO-4  |          | . geophysical observatories                 | GS             | UH-12 helicopter Fairchild-Hiller aircraft    |
|                  | OGO-6  |          | 0G0   | 00             | . OH-23 helicopter                            |
|                  | OGO-C observatories                            |          | POGO<br><b>OGO-C</b>                        |                | light aircraft                                |
|                  | geophysical observatories                      |          |   |                | OH-23 helicopter                              |
|                  | OGO  | OGO-D    |   |                | V/STOL aircraft . rotary wing aircraft        |
|                  | EGO  | USE      | OGO-4                                       |                | helicopters                                   |
|                  | OGO-3  | OGO-E    |   |                | military helicopters                          |
|                  | OGO-5<br>OGO-A                                 | USE      | OGO-5                                       |                | OH-23 helicopter                              |
|                  | POGO   |          |   | OU 50          | haliaantar                                    |
|                  | OGO-4  | OGO-F    | 200 6                                       | GS             | helicopter<br>light aircraft                  |
|                  | OGO-6  | USE      | OGO-6                                       | 00             | . light helicopters                           |
| RT               | OGO-C<br>Gamma Ray Observatory                 | OH-4 he  | elicopter                                   |                | . OH-58 helicopter                            |
| 13.1             | Gamma reay Observatory                         | UF       | HO-4 helicopter                             |                | V/STOL aircraft                               |
| OGO-3            |  | GS       | Bell aircraft                               |                | . rotary wing aircraft helicopters            |
| UF               | OGO-B  |          | . OH-4 helicopter<br>light aircraft         |                | light helicopters                             |
| GS               | artificial satellites . geophysical satellites |          | . light helicopters                         |                | OH-58 helicopter                              |
|                  | OGO  |          | . OH-4 helicopter                           |                | military helicopters                          |
|                  | OGO-3  |          | observation aircraft                        |                | OH-58 helicopter                              |
|                  | observatories                                  |          | . <b>OH-4 helicopter</b><br>V/STOL aircraft | Ohio           |   |
|                  | . geophysical observatories OGO                |          | rotary wing aircraft                        | GS             | nations                                       |
|                  | OGO-3  |          | helicopters                                 |                | . United States                               |
| RT               | Thor Agena launch vehicle                      |          | light helicopters                           |                | Ohio  |
| 000 1            |  |          | OH-4 helicopter                             | RT             | Ohio River (US) Wabash River Basin (IL-IN-OH) |
| OGO-4<br>UF      | OGO-D  |          | military helicopters OH-4 helicopter        |                | Wabash River Basin (IL-IN-On)                 |
| GS               | artificial satellites                          |          | Ott-4 Helicoptei                            | Ohio R         | iver (US)                                     |
|                  | . geophysical satellites                       |          | elicopter                                   | GS             | rivers  |
|                  | OGO  | UF       | FH-1100 helicopter                          | 5-             | Ohio River (US)                               |
|                  | POGO<br><b>0G0-4</b>                           | GS       | HO-5 helicopter Fairchild-Hiller aircraft   | RT             | Illinois                                      |
|                  | observatories                                  | GS       | . OH-5 helicopter                           |                | Indiana<br>Kentucky                           |
|                  | . geophysical observatories                    |          | Hiller aircraft                             |                | Ohio  |
|                  | OĠO  |          | . OH-5 helicopter                           |                | Pennsylvania                                  |

**Omicron Ceti star** West Virginia wetlands ∞ polymers oligonucleotides oil recovery ohmic dissipation energy technology (added August 2004) UF Joule heating DEF Polymers made up of a few (2-20) reclamation GS dissipation nucleotides. In molecular genetics, they refer to ohmic dissipation ∞ recovery a short sequence synthesized to match a region reuse Joule-Thomson effect where a mutation is known to occur, and then levitation melting oil slicks used as a probe. losses GS biopolymers UF slicks . oligonucleotides RT dumping ohmmeters organic compounds environment pollution DEF Direct-reading instruments for measur-. nucleotides ing electrical resistance. They are provided with a scale, usually graduated in either ohms, meenvironmental cleanup . oligonucleotides oceanography adenosines gohms, or both. If the scale is graduated in megohms, the instrument is usually called a pollution polymerase chain reaction spilling ∞ polymers water pollution megohmmeter. ĞS measuring instruments olivine . ohmmeters minerals GS oils electrical conductivity meters . olivine . castor oil electrical impedance . forsterite . crude oil electrical measurement dunite fuel oils electrical resistance igneous rocks . lubricating oils resistance thermometers monticellite . mineral oils transconductance peridotite shale oil Wheatstone bridges regolith energy policy rocks fats Ohms law soils fuels The current in an electric circuit is areases inversely proportional to the resistance of the Oman hydraulic fluids circuit and is directly proportional to the electro-motive force in the circuit. Ohm's law applies, GS nations kerogen lipid metabolism lubricants . Oman strictly speaking, only to linear constant-current circuits OMCVD (vapor deposition) oil fields GS circuits metalorganic chemical vapor petroleum products Ohms law deposition pitch (material) laws retort processing Ohms law OME tar sands RT ∞ conductivity USE **Orbit Maneuvering Engine (Space** electric current Shuttle) Okazaki-Levy-Rudenko comet electrical resistance (added May 1991) electricity Omega Navigation System GS celestial bodies electromotive forces A very long distance navigation system . comets transconductance operating at approximately 10 kHz (kilohertz), in .. Okazaki-Levy-Rudenko comet volt-ampere characteristics which hyperbolic lines of position are determined by measurement of the difference in Okhansk meteorite travel time of continuous wave signals from two Ohzora satellite GS celestial bodies USE EXOS-C satellite transmitters separated by 5000 nmi (nautical . meteorites miles) to 6000 nmi (9000 km {kilometers} to . . stony meteorites 11000 km) or in which changes in distances from oil additives ... chondrites the transmitters are measured by counting RF additives GS . Okhansk meteorite (radio frequency) wavelengths in the space of . oil additives RT iron meteorites lanes as the vehicle moves from a known position, the lanes being counted by phase comparioil exploration Oklahoma son with a stable oscillator aboard the vehicle. exploration GS nations navigation GS oil exploration United States . Omega Navigation System crude oil Oklahoma air navigation drilling Lake Texoma (OK-TX) RT ∞ systems energy policy geology olefins omega-mesons natural gas exploration USE alkenes GS particles offshore energy sources . elementary particles tar sands oleic acid . . bosons underwater resources acids GS . . . mesons . carboxylic acids . omega-mesons . . fatty acids . . fermions Surface boundary of an area from . . oleic acid . . . baryons which petroleum is obtained; may correspond to organic compounds . carboxylic acids . . . . omega-mesons an oil pool or may be circumscribed by political . . hadrons or legal limits. . . fatty acids . . . baryons GŠ resources ... oleic acid . omega-mesons . Earth resources . . . mesons . oil fields olfactory perception . omega-mesons crude oil . nuclear particles UF smell drilling GS perception . . bosons methane . sensory perception . . . mesons natural das olfactory perception . . omega-mesons offshore energy sources chemoreceptors charged particles oils sense organs eta-mesons tar sands oligomers omegatrons particle accelerators oil pollution (added January 1990) GŠ

oligomers

. dimers

trimers

monomers

polymer chemistry

polymerization

GS

RT

GS

RT

pollution

. environment pollution

environmental cleanup

. . water pollution

coastal ecology

. . oil pollution

. cyclotrons

Omicron Ceti star

UF

GS

. . omegatrons

Mira Ceti star

celestial bodies

|          | . stars                                   |         | ∞ equipment                              | RT         | biogeny                                   |
|----------|---|---------|--|------------|---|
|          | giant stars                               |         | flight instruments                       |            | evolution (development)                   |
|          | Omicron Ceti star                         |         | flight operations                        |            | growth                                    |
|          | late stars                                |         | flight safety                            |            | neurophysiology                           |
|          |   |         | 9 ,                                      |            | rieuropriysiology                         |
|          | cool stars                                |         | heating equipment                        |            |   |
|          | Mira variables                            |         | life support systems                     | oocytes    |   |
|          | Omicron Ceti star                         |         | lighting equipment                       | USE        | gametocytes                               |
|          | variable stars                            |         | radar equipment                          |            |   |
|          | Mira variables                            |         | radio equipment                          | Oort cl    | oud                                       |
|          | Omicron Ceti star                         |         | spacecraft instruments                   | DEF        | A region of millions of comets between    |
|          | Officion och star                         |         |  |            | and 100,000 A.U. from the sun. Comet      |
|          | restional outcomes                        |         | stowage (onboard equipment)              |            |   |
|          | rectional antennas                        |         | survival equipment                       |            | turbed out of the Oort cloud by passing   |
| GS       | antennas                                  |         | telecommunication                        |            | nd fall into the inner solar system. The  |
|          | . omnidirectional antennas                |         | ∞ test equipment                         |            | oud was named after the Dutch astrono     |
|          | monopole antennas                         |         | training devices                         | mer, Ja    | n Hendrik Oort.                           |
|          | whip antennas                             |         | · ·                                      | RT <       | ∞ clouds                                  |
|          | turnstile antennas                        | oncog   | enes                                     |            | comet nuclei                              |
| RT       | dipole antennas                           |         | ded July 2002)                           |            | comets                                    |
|          | directional antennas                      |         | Genes that have the potential of turn-   |            | Hale-Bopp comet                           |
|          |   |         | normal cell into one that is cancerous.  |            |   |
|          | microwave antennas                        |         |  |            | Kuiper belt                               |
|          | radio antennas                            | UF      | cancer genes                             |            | Nemesis (star)                            |
|          |   |         | transforming genes                       |            | solar system                              |
| omnidi   | rectional radio ranges                    | GS      | genes                                    |            | trans-Neptunian objects                   |
| GS       | navigation aids                           |         | . oncogenes                              |            |   |
|          | . beacons                                 | RT      | cancer                                   | opacifi    | ers                                       |
|          | . radio beacons                           |         | gene expression                          | GS         | additives                                 |
|          |   |         | mutations                                | 00         | . opacifiers                              |
|          | omnidirectional radio ranges              |         | mutations                                | рт         |   |
|          | self calibrating omnirange                |         |  | KI         | ∞ agents                                  |
|          | radio equipment                           |         | mensional flow                           |            | fillers                                   |
|          | . radio transmitters                      | GS      | fluid flow                               |            |   |
|          | radio beacons                             |         | . one dimensional flow                   | opacity    | 1   |
|          | omnidirectional radio ranges              | RT      | annular flow                             | DEF        | Of an optical path, the reciprocal of     |
|          |   |         | axial flow                               | transmi    |   |
|          | self calibrating omnirange                |         | core flow                                | GS         |   |
|          | transmitters                              |         |  | 00         | electromagnetic properties                |
|          | . radio transmitters                      |         | flow geometry                            |            | optical properties                        |
|          | radio beacons                             |         | Hugoniot equation of state               |            | opacity                                   |
|          | omnidirectional radio ranges              |         | three dimensional flow                   | RT         | absorptance                               |
|          | self calibrating omnirange                |         | two dimensional flow                     |            | absorptivity                              |
| RT       | distance measuring equipment              |         |  |            | acoustics                                 |
| 17.1     | radio navigation                          | one-ph  | ase flow                                 |            | atmospheric optics                        |
|          |   | USE     |  |            | attenuation coefficients                  |
|          | solar compasses                           | 002     | onigio pilaco non                        |            |   |
|          |   | onisotr | 'Only                                    |            | clarity                                   |
| Omnipo   | ol HC-3 helicopter                        |         |  |            | density (mass/volume)                     |
| USE      | HC-3 helicopter                           | USE     | anisotropy                               |            | electromagnetic absorption                |
|          |   |         |  |            | haze                                      |
| Omnipo   | ol L-29 aircraft                          |         | programming                              |            | Kramers-Kronig formula                    |
|          | L-29 jet trainer                          | GS      | computer programming                     |            | light (visible radiation)                 |
| 002      | jot                                       |         | . on-line programming                    |            | light transmission                        |
| Omnino   | ol Z-37 aircraft                          |         |  |            |   |
|          | Z-37 aircraft                             | on-line | systems                                  |            | refractivity                              |
| USE      | 2-37 aircraft                             |         | Systems where the input data enters      |            | translucence                              |
|          |   |         | mputer directly from the point of origin |            | transmission efficiency                   |
|          | nge navigation                            |         | in which output data is transmitted di-  |            | transmissivity                            |
| USE      | VHF omnirange navigation                  |         |  |            | transparence                              |
|          |   |         | o where it is used.                      |            | turbidity                                 |
| onboard  | d computers                               | RT      | ·  |            | underwater optics                         |
|          | airborne/spaceborne computers             |         | computer programs                        |            | visibility                                |
| 002      | ambonio, opacono interessor               |         | computer techniques                      |            | Visibility                                |
| anhaar   | d data processing                         |         | data management                          |            |   |
|          | d data processing                         |         | data processing                          | opales     |   |
|          | Processing of acquired data aboard an     |         | information retrieval                    | RI         | iridescence                               |
|          | satellite, etc., rather than transmission |         | information systems                      |            | optical properties                        |
| to grour | nd stations for processing.               |         | •  |            |   |
| GS       | data processing                           |         | integrated library systems               | open c     | hannel flow                               |
|          | onboard data processing                   |         | numerical data bases                     | GS         | fluid flow                                |
| RT       | airborne/spaceborne computers             |         | ∞ systems                                |            | . internal flow                           |
|          | ∞ data                                    |         | web services                             |            | channel flow                              |
|          |   |         | websites                                 |            |   |
|          | flight management systems                 |         |  |            | open channel flow                         |
|          | image processing                          | Onsag   | er phenomenological coefficient          |            | . liquid flow                             |
|          | microprocessors                           | GS      |  |            | open channel flow                         |
|          | real time operation                       | 00      |  | RT         | cavity flow                               |
|          | signal processing                         |         | . Onsager phenomenological               |            | laminar flow                              |
|          |   |         | coefficient                              |            | meanders                                  |
| onboar   | d equipment                               | RT      | flux density                             |            | pipe flow                                 |
| GS       | onboard equipment                         |         | plasmas (physics)                        |            | turbulent flow                            |
| GS       |   |         | statistical mechanics                    |            |   |
|          | . airborne equipment                      |         | variational principles                   |            | water flow                                |
|          | airborne/spaceborne computers             |         | • •                                      |            |   |
|          | Light Airborne Multipurpose               | Onsag   | er relationship                          |            | ircuit voltage                            |
|          | System                                    |         | ∞ equilibrium                            | DEF        | The steady state or equilibrium poten     |
|          | TERCOM                                    | 13.1    |  | tial of ar | n electrode in absence of external currer |
|          | . airborne lasers                         |         | irreversible processes                   |            | or from the electrode.                    |
|          | . aircraft equipment                      |         | thermodynamics                           | GS         | potential energy                          |
|          |   |         |  | 63         |   |
|          | bombing equipment                         | Ontari  |  |            | . electric potential                      |
|          | . ejection seats                          | GS      | nations                                  |            | open circuit voltage                      |
|          | flying ejection seats                     |         | . Canada                                 | RT         |   |
|          | TERCOM                                    |         | Ontario                                  |            | capacitance                               |
|          | . spacecraft equipment                    |         | •  |            | electrical properties                     |
|          | spacecraft electronic equipment           | ontoge  | nesis                                    |            | electrical resistivity                    |
| RT       | airborne surveillance radar               |         |  |            | electromotive forces                      |
|          |   | USE     | ontogeny                                 |            |   |
| 0        | ∞ aircraft                                |         |  |            | energy conversion efficiency              |
|          | bubble technique                          | ontoge  |  |            | overvoltage                               |
|          | crew procedures (preflight)               | UF      | ontogenesis                              | c          | ∞ potential                               |

power gain short circuit currents solar cells static electricity volt-ampere characteristics open clusters GS celestial bodies . star clusters .. open clusters . . . Pleiades cluster . Praesepe star clusters RT Population I stars **OPEN Project** DEF A former NASA project now absorbed by the International Solar Terrestrial Physics Project. It proposed a simultaneous study of plasmas in the Earth's magnetosphere and neighborhood using the following four instrumented spacecraft: interplanetary physics laboratory (IPL), geomagnetic tail laboratory (GTL), polar plasma laboratory (PPL), and equatorial magnetosphere laboratory (EML). Used for Origin of Plasmas in Earth Neighborhood. UF Origin of Plasmas in Earth Neighborhood GS programs . NASA programs . . NASA space programs ... OPEN Project . projects . OPEN Project . space programs . . NASA space programs OPEN Project Earth atmosphere Earth magnetosphere plasma diagnostics plasma physics plasmasphere satellite-borne instruments space plasmas open source licensing (computers) (added April 2002) DEF An arrangement between a software developer and the public that enables public access to a computer program's source code for the purpose of facilitating continued and efficient software development. GS licensing . open source licensing (computers) computer programming intellectual property operating systems (computers) software engineering source programs openings UF cut-outs GS openings . apertures . . irises (mechanical apertures) . . numerical aperture . . synthetic apertures . ports (openings) slits RT annular ducts cavities cracks curtains doors duct geometry ducts egress exhaust nozzles exhaust systems gaps gates (openings) ingress (spacecraft passageway) inlet nozzles intake systems orifices outlets passageways

perforated plates

pipe nozzles

vents windows (apertures) operating costs The price for operating a system exclusive of the cost of the system itself. GS costs operating costs airline operations economic analysis energy policy maintenance production costs systems analysis operating systems (computers) DEF Computer programs for expediting, controlling and/or recording computer use by other programs. Used for executive systems (computers). executive systems (computers) GS computer programs . computer systems programs operating systems (computers) ... disk operating system (DOS) GS ... UNIX (operating system) assembler routines compilers computer information security computer systems design input/output routines MIMD (computers) open source licensing (computers) ∞ routines SIMD (computers) ∞ systems windows (computer programs) operating temperature GS temperature operating temperature ambient temperature combustion temperature high temperature superconductors room temperature wall temperature operational amplifiers amplifiers operational amplifiers amplifier design analog circuits analog computers differential amplifiers feedback amplifiers linear integrated circuits transistor amplifiers operational calculus RT ∞ applications of mathematics calculus calculus of variations differential equations Fourier analysis integral calculus linear equations operational hazards GS hazards . operational hazards air piracy aircraft hazards cumulative damage flight hazards meteoroid hazards

noise (sound)

RT airline operations

∞ operations

∞ problems

∞ operations

SN

operational problems

occupational diseases

systems engineering

air drop operations

air traffic control

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

radiation hazards

airline operations chemical engineering chemical reactions clinical medicine deployment Fishbowl Operation loading operations mechanization mission planning operational problems operations research orifices preflight operations premature operation production engineering programs projects rescue operations sequencing strategy surgery systems engineering operations research optimization operations research RT ∞ applications of mathematics computer systems simulation computerized simulation constraints control systems design critical path method decision theory Delphi method (forecasting) dynamic programming experiment design forecasting functions (mathematics) game theory group technology (manufacturing) information theory Lagrange multipliers linear prediction linear programming management management methods management planning mathematical models mathematical programming matrix management minima minimax technique mission planning multidisciplinary research nonlinear programming ∞ operations ∞ paths pattern method (forecasting) probability theory probe method (forecasting) profile method (forecasting) project planning quality control queueing theory rand project Rayleigh distribution research and development research management risk saddle points (game theory) sequencing simulation statistical analysis stochastic processes strategy ∞ synthesis synthesis (chemistry) systems analysis systems engineering systems management systems simulation traveling salesman problem urban development war games

#### operator performance

GS human performance operator performance RT astronaut performance

computer systems performance the influence of an external driving coherent by means optical radiation. mental performance light, thereby allowing these materials to behave RT automatic control like optical switches. cascade control performance pilot performance electromagnetic properties  $\infty$  control psychomotor performance . optical properties control equipment situational awareness optical bistability controllers four-wave mixing electric control ∞ operators hysteresis electronic control (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN integrated optics electro-optics light transmission feedback control nonlinear optics optical equipment operators (mathematics) optical data storage materials remote control operators (personnel) optical equipment reactor cores optical correction procedure optical measuring instruments optical memory (data storage) GS correction operators (mathematics) optical switching . optical correction procedure differential operators optical waveguides procedures Fredholm operators optical correction procedure switching circuits GS operators (mathematics) adaptive optics . Bergman operator optical coatings adjusting linear operators (added June 2005) anisoplanatism functions (mathematics) Coatings applied to the surface of an errors integral transformations optical element. honeycomb mirrors Laplace transformation coatings instrument errors GS matrix theory optical coatings lens design ∞ operators . birefringent coatings ∞ optics perturbation theory antireflection coatings photographic measurement S matrix theory coating photographs position errors electromagnetic scattering operators (personnel) glass seeing (astronomy) GS personnel segmented mirrors lenses . operators (personnel) light scattering self focusing . . pilots (personnel) metal coatings ... aircraft pilots optical correlators mirrors . . . test pilots optical equipment (added March 1990) RT ∞ operators GS correlators optical materials optical correlators protective coatings Ophiuchi clouds image correlators telescopes DEF Dense concentrations of interstellar optical data processing gas near the stars Rho Ophiuchi and Zeta optical communication Ophiuchi. laser communication optical countermeasures RT cloud physics DEF Equipment for exploiting the vulner-ability of laser guided weapon systems. light communication ∞ clouds optical signals interstellar gas telecommunication countermeasures GS interstellar matter . communication . optical countermeasures nebulae . . optical communication air defense ... free-space optical communication antimissile defense ophthalmodynamometry blood pressure dye lasers deception RT ground-air-ground communication electronic countermeasures eye (anatomy) high power lasers military technology vision interplanetary communication missile defense ophthalmology lasers optical radar medical science lunar communication ∞ optics GS . ophthalmology optical fibers space surveillance (spaceborne) ∞ optics stealth technology electronystagmography polarization modulation eye (anatomy) optical coupling eye diseases quantum communication satellite communication GS coupling eye examinations space communication . electromagnetic coupling miosis spacecraft communication . optical coupling vestibular nystagmus tunable lasers RT couples cross coupling Opik theory visual signals wireless communication cross polarization RT nebulae laser arrays Orion constellation laser mode locking optical computers Orion nebula supernovae DEF Computers which use light rather than light transmission electricity for all or part of their operation. They microwave coupling ∞ theories perform multiple tasks in parallel as opposed to numerical aperture electronic computers which would perform those optical absorption tasks sequentially. Such increased processing phase locked systems USE electromagnetic absorption capability makes them suited for aerospace polarization (waves) light transmission problems which involve systems that have a large number of degrees of freedom, i.e., large optical data processing optical activity space structures, pattern recognition activity, GS data processing DEF Ability to rotate the plane of vibration of polarized light to the right or left.

RT biochemistry . optical data processing and robotics. GS data processing equipment character recognition carbohydrates . computers ∞ data optical computers chromophores data acquisition coherent light computer design data processing equipment  $\infty \, \text{optics}$ organic chemistry gray scale image classification electro-optics polarimetry free-space optical interconnects optical data processing image processing polarized light lasers stereochemistry light modulators

optical equipment

(added September 1993)

optical control

optical interconnects

optical memory (data storage)

The control of light sensitive devices

light valves optical computers

optical disks

∞ optics

optical correlators

optical relay systems

#### 668

optical amplifiers
USE light amplifiers

DEF A property of certain materials in which

a nonlinear response is exhibited when under

optical bistability

|           | photonics                               |    | . eyepieces                          |         | refracting telescopes             |
|-----------|---|----|--------------------------------------|---------|-----------------------------------|
| ∞         | processing                              |    | . heliometers                        |         | reticles                          |
|           | readers                                 |    | pyroheliometers                      |         | Scanner project                   |
|           | scanners                                |    | . image converters                   |         | scanners                          |
|           | tomography                              |    | celescopes                           |         | spectrometers                     |
|           |   |    | . image tubes                        |         | telescopes                        |
|           | data storage materials                  |    | thermicons                           |         | tripods                           |
| GS        | optical materials                       |    | . laser doppler velocimeters         |         | video equipment                   |
|           | optical data storage materials          |    | . optical gyroscopes                 |         |                                   |
| RT ∝      |   |    | . optical measuring instruments      | optical | fibers                            |
|           | data recording                          |    | cathetometers                        | GS      | fibers                            |
|           | data storage                            |    | diffractometers                      |         | . optical fibers                  |
|           | laser applications optical bistability  |    | Ebert spectrometers                  |         | scintillating fibers              |
|           | optical memory (data storage)           |    | ellipsometers                        |         | optical materials                 |
| ~         | optics                                  |    | etalons                              |         | . optical fibers                  |
|           | photographic film                       |    | geodimeters                          |         | scintillating fibers              |
|           | video disks                             |    | haploscopes                          |         | waveguides                        |
|           | VIGCO GIORO                             |    | . infrared spectrometers             |         | . optical waveguides              |
| optical   | density                                 |    | filter wheel infrared spectrometers  |         | optical fibers                    |
|           | The image intensity or density in terms |    | light scattering meters              |         | scintillating fibers              |
|           | easured by, a reflectance densitometer. |    | microdensitometers                   | RT      | Bragg gratings                    |
|           | density                                 |    | nephelometers                        |         | communication cables              |
|           | microdensitometers                      |    | oculometers                          |         | fiber lasers                      |
| 000       | optics                                  |    | optical pyrometers                   |         | fiber optics                      |
|           | translucence                            |    | optical range finders                |         | fly by light control glass fibers |
|           | transmittance                           |    | laser range finders                  |         | numerical aperture                |
|           | transparence                            |    | photogoniometers                     |         | optical communication             |
|           | turbidity                               |    | photometers                          |         | plastic fibers                    |
|           | underwater optics                       |    | electrophotometers                   |         | transmission lines                |
|           |   |    | ultraviolet spectrometers            |         | transmission lines                |
|           | depolarization                          |    | high dispersion spectrographs        |         |                                   |
| RT        | light (visible radiation)               |    | Total Ozone Mapping                  | optical |                                   |
| 000       | optics                                  |    | Spectrometer quantum well infrared   | GS      | electromagnetic wave filters      |
|           | polarized light                         |    | photodetectors                       |         | optical filters                   |
| antical a | la n th                                 |    | ultraviolet spectrophotometers       |         | birefringent filters              |
| optical o |   |    | polarimeters                         |         | infrared filters                  |
| USE       | optical thickness                       |    | reflectometers                       | DT      | ultraviolet filters               |
| optical   | dieke                                   |    | microwave reflectometers             | RT      | adaptive filters                  |
| UF        | compact disk read-only memory           |    | refractometers                       |         | apodization                       |
| Oi        | devices                                 |    | sextants                             |         | bandpass filters                  |
| GS        | computer components                     |    | spectrophotometers                   |         | bandstop filters                  |
| 00        | . computer storage devices              |    | infrared spectrophotometers          |         | Bragg gratings                    |
|           | optical disks                           |    | ultraviolet spectrophotometers       |         | diaphragms (mechanics)            |
| RT        | CD-ROM                                  |    | transits                             |         | didymium<br>electric filters      |
| 131       | data storage                            |    | theodolites                          |         |                                   |
|           | laser applications                      |    | cinetheodolites                      |         | filtergrams<br>∞ filters          |
|           | optical data processing                 |    | transmissometers                     |         | ∞ gratings                        |
|           | optical equipment                       |    | . optical microscopes                | `       | gratings (spectra)                |
|           | optical memory (data storage)           |    | . optical scanners                   |         | high pass filters                 |
|           | video disks                             |    | flying spot scanners                 |         | lenses                            |
|           |   |    | multispectral band scanners          |         | low pass filters                  |
| optical e | mission                                 |    | thematic mappers (LANDSAT)           |         | optical relay systems             |
| USE       | light emission                          |    | . periscopes                         |         | ∞ optics                          |
|           |   |    | . photographic rectifiers            |         | photographic equipment            |
| optical   | emission spectroscopy                   |    | . polariscopes                       |         | photographic film                 |
| GS        | spectroscopy                            |    | Senarmont polariscopes               |         | Rowland circles                   |
|           | . optical emission spectroscopy         |    | . prisms                             |         | sunglasses                        |
|           | laser spectroscopy                      |    | . scatter plates (optics)            |         | transmission                      |
|           | optogalvanic spectroscopy               |    | . spectroheliographs                 |         | tunable filters                   |
| RT        | auroral spectroscopy                    |    | . stroboscopes                       |         |                                   |
|           | electron spectroscopy                   | от | . wide angle lenses                  | ontical | flow (image analysis)             |
|           | emission spectra                        | RT | absorption spectroscopy              |         | led May 1993)                     |
|           | light (visible radiation)               |    | acoustic microscopes                 | RT      | computer vision                   |
| 000       | optics                                  |    | circumsolar telescopes densitometers |         | image analysis                    |
| ontical   | equipment                               |    | Fabry-Perot spectrometers            |         | image processing                  |
| GS        | optical equipment                       |    | geometrical optics                   |         | ∞ optics                          |
| 00        | . binoculars                            |    | horizon scanners                     |         | scene analysis                    |
|           | . cameras                               |    | infrared interferometers             |         | three dimensional motion          |
|           | Baker-Nunn camera                       |    | infrared scanners                    |         |                                   |
|           | ballistic cameras                       |    | interferometers                      | ontical | generators                        |
|           | CCD cameras                             |    | lenses                               |         | laser cavities                    |
|           | . Delft camera                          |    | look angles (electronics)            | OOL     | laser cavilles                    |
|           | diffraction limited cameras             |    | Mach-Zehnder interferometers         |         |                                   |
|           | faint object camera                     |    | microchannels                        |         | gyroscopes                        |
|           | high speed cameras                      |    | microscopes                          | GS      | gyroscopes                        |
|           | framing cameras                         |    | mirrors                              |         | . optical gyroscopes              |
|           | digital cameras                         |    | monochromators                       |         | optical equipment                 |
|           | I2S cameras                             |    | optical bistability                  | RT      | . optical gyroscopes              |
|           | Lallemand cameras                       |    | optical coatings                     |         | laser gyroscopes<br>∞ optics      |
|           | multispectral band cameras              |    | optical computers                    | •       | ∞ optics<br>Sagnac effect         |
|           | panoramic cameras                       |    | optical control                      |         | Cagnac officer                    |
|           | pinhole cameras                         |    | optical disks                        |         |                                   |
|           | Schmidt cameras                         | c  | ∞ optics                             | •       | heterodyning                      |
|           | streak cameras                          |    | optogalvanic spectroscopy            | GS      | heterodyning                      |
|           | television cameras                      |    | photographic equipment               |         | optical heterodyning              |
|           | . collimators                           |    | radio telescopes                     | RT      | Doppler effect                    |
|           | . endoscopes                            |    | reflecting telescopes                |         | light modulation                  |

| ∞ optics   | phase contrast                       | microwave reflectometers                    |
|--|--------------------------------------|---|
| antical illusion                                   | photographic measurement             | refractometers                              |
| optical illusion                                   | photometers                          | sextants                                    |
| GS psychological effects                           | photothermal deflection spectroscopy | spectrophotometers                          |
| . illusions  | polarimeters                         | infrared spectrophotometers                 |
| optical illusion                                   | pressure sensitive paints            | ultraviolet spectrophotometers              |
| elevator illusion                                  | ray tracing                          | transits                                    |
| RT moon illusion                                   | reflectance                          | theodolites                                 |
| ∞ optics   | reflectometers                       | cinetheodolites                             |
|  | refractometers                       | transmissometers                            |
| optical images                                     | Ronchi test                          | RT absorption spectroscopy                  |
| USE <b>images</b>                                  | spectral signatures                  | cinespectrographs                           |
|  | spectrometers                        | colorimetry                                 |
| optical interconnects                              | spectrophotometers                   | densitometers                               |
| (added June 1998)                                  | stroboscopes                         | Fabry-Perot spectrometers                   |
| GS optical interconnects                           | ·                                    | faint object camera                         |
| . free-space optical interconnects                 | optical measuring instruments        | goniometers                                 |
| RT connectors                                      | SN (INSTRUMENTS UTILIZING OPTICAL    | guidance sensors                            |
| electric connectors                                | PRINCIPLES FOR MEASUREMENT)          | infrared interferometers                    |
| integrated optics                                  | UF optical sensors                   | interferometers                             |
| optical computers                                  | GS measuring instruments             | laser doppler velocimeters                  |
| optical switching                                  | . optical measuring instruments      | Mach-Zehnder interferometers                |
| optoelectronic devices                             | cathetometers                        | microscopes                                 |
| photonics  | diffractometers                      | Miros system                                |
|  | Ebert spectrometers                  | monochromators                              |
| optical maser modulation                           | ellipsometers                        | multispectral tracking telescopes           |
| USE light modulation                               | etalons                              | optical bistability                         |
|  | geodimeters                          | ∞ optics                                    |
| optical masers                                     | haploscopes                          | optogalvanic spectroscopy                   |
| USE lasers   | infrared spectrometers               |   |
|  | filter wheel infrared spectrometers  | periscopes<br>polarimetry                   |
| optical materials                                  | light scattering meters              | polariscopes                                |
| (added September 1988)                             | microdensitometers                   | ·   |
| GS optical materials                               | nephelometers                        | radiation measuring instruments             |
| . glass fibers                                     | oculometers                          | reflecting telescopes                       |
| <ul> <li>optical data storage materials</li> </ul> | optical pyrometers                   | refracting telescopes                       |
| . optical fibers                                   | optical range finders                | self focusing                               |
| scintillating fibers                               | laser range finders                  | Senarmont polariscopes                      |
| RT aspheric optics                                 | photogoniometers                     | solar instruments                           |
| chromophores                                       | photogeniometers                     | telephotometry                              |
| glass  | electrophotometers                   | telescopes                                  |
| infrared windows                                   | ultraviolet spectrometers            |   |
| lenses   |                                      | optical memory (data storage)               |
| ∞ materials  | high dispersion spectrographs        | GS memory (computers)                       |
| materials selection                                | Total Ozone Mapping                  | . optical memory (data storage)             |
| mirrors  | Spectrometer                         | RT associative memory                       |
| optical coatings                                   | quantum well infrared                | CD-ROM                                      |
| windows (apertures)                                | photodetectors                       | coherent light                              |
| windows (apertures)                                | ultraviolet spectrophotometers       | computer storage devices                    |
| optical measurement                                | polarimeters                         | ∞ data                                      |
| SN (MEASUREMENTS OF OPTICAL                        | reflectometers                       | holography                                  |
| PROPERTIES, QUANTITIES OR                          | microwave reflectometers             | lasers                                      |
| CONDITIONS)  | refractometers                       | optical bistability                         |
| GS optical measurement                             | sextants                             | optical computers                           |
| . colorimetry                                      | spectrophotometers                   | optical data storage materials              |
| . optometry  | infrared spectrophotometers          | optical disks                               |
| . photometry                                       | ultraviolet spectrophotometers       | ∞ optics                                    |
| astronomical photometry                            | transits                             | video disks                                 |
| stellar spectrophotometry                          | theodolites                          |   |
| electrophotometry                                  | cinetheodolites                      | optical MEMS                                |
| infrared photometry                                | transmissometers                     | (added December 2005)                       |
| spectrophotometry                                  | optical equipment                    | USE microoptoelectromechanical              |
| stellar spectrophotometry                          | . optical measuring instruments      | systems                                     |
| telephotometry                                     | cathetometers                        | -,  |
| ultraviolet photometry                             | diffractometers                      | optical methods                             |
| visual photometry                                  | Ebert spectrometers                  | USE optics                                  |
| . polarimetry                                      | ellipsometers                        |   |
| . astronomical polarimetry                         | etalons                              | optical microscopes                         |
| RT chemical analysis                               | geodimeters                          | GS microscopes                              |
| collimators  | haploscopes                          | . optical microscopes                       |
| densitometers                                      | infrared spectrometers               | optical equipment                           |
| diffractometers                                    | filter wheel infrared spectrometers  | . optical microscopes                       |
| electro-optical photography                        | light scattering meters              | RT electron microscopes                     |
| ellipsometry                                       | microdensitometers                   | ∞ optics                                    |
| emissivity   | nephelometers                        | ** optios                                   |
| etalons  | oculometers                          | optical modulation                          |
| Faraday effect                                     | optical pyrometers                   | USE light modulation                        |
| gamma ray spectrometers                            | optical pyrometers                   | OOL IIGHT MOUDIALION                        |
| geodimeters  | laser range finders                  | optical paths                               |
| geometrical optics                                 | photogoniometers                     | DEF Lines of sight or the paths followed by |
|  |                                      |   |
| grazing incidence                                  | photometers                          | rays of light through optical systems.      |
| in situ measurement                                | electrophotometers                   | RT diffraction paths                        |
| infrared interferometers                           | ultraviolet spectrometers            | geometrical optics                          |
| interferometers                                    | high dispersion spectrographs        | holographic optical elements                |
| light (visible radiation)                          | Total Ozone Mapping                  | multipath transmission                      |
| ∞ measurement                                      | Spectrometer                         | ∞ optics                                    |
| microdensitometers                                 | quantum well infrared                | ∞ paths                                     |
| modulation transfer function                       | photodetectors                       | phase contrast                              |
| nephelometers                                      | ultraviolet spectrophotometers       | photon beams                                |
| nonintrusive measurement                           | polarimeters                         | Sagnac effect                               |
| ∞ optics   | reflectometers                       | underwater optics                           |

Voigt effect ∞ physical properties . optical reflection wave dispersion polarization (waves) antireflection coatings electromagnetic absorption properties ∞ solid state physics geometrical optics optical polarization surface properties incident radiation circular polarization RT thermochromatic materials infrared reflection linear polarization thermodynamic properties light transmission optical properties ∞ optics ∞ optics wave dispersion reflectance ∞ polarization reflected waves polarization modulation optical pumping spread reflection polarized light GS optical pumping polarizers laser pumping optical relay systems polarography electron pumping DEF Systems using photocouplers in which electron-hole drops the output device is a light sensitive switch that optical properties excimer lasers provides the same on and off operations as the (INCLUDES PROPERTIES AND EFFECTS OF VISIBLE, INFRARED AND ULTRAVIOLET ELECTROMAGNETIC fiber lasers contacts of a relay. gamma ray lasers RT electro-optics WAVES) electromagnetic properties imaging techniques glass lasers HCN lasers laser applications optical properties krypton fluoride lasers optical data processing . . absorptance laser cooling optical filters ... absorptivity laser propulsion optical resonators .. birefringence lasers optical switching . Kerr electrooptical effect maser pumping ∞ optics brightness metal vapor lasers pattern recognition . sky brightness neodymium lasers ∞ systems . . brightness distribution nuclear pumped lasers . . color nuclear pumping optical resonance . . . iridescence ∞ optics GS emission . . . stellar color . light emission pulse repetition rate . water color ∞ pumping 
 rare gas-halide lasers . . luminescence . . dichroism .. optical resonance . . luminosity solar-pumped lasers resonance . . . stellar luminosity stimulated emission . optical resonance . . opacity stimulated emission devices RT nuclear pumped lasers optical bistability ∞ optics optical pyrometers

DEF Devices for measuring the temperaoptical reflection plasma radiation . . phosphorescence plasma spectra photoconductivity ture of an incandescent radiating body by comparing its brightness for a selected wavelength resonance lines . photoviscoelasticity spectrum analysis radiance interval within the visible spectrum with that of a . . reflectance standard source; a monochromatic radiation pyoptical resonators . bidirectional reflectance rometer. GS resonators . . . spectral reflectance measuring instruments optical resonators GS .. refractivity . optical measuring instruments field mode theory . . . photorefractivity . optical pyrometers laser modes stigmatism temperature measuring instruments laser outputs . . translucence optical pyrometers lasers . . transmissivity optical equipment light modulation . . transmittance . optical measuring instruments mirrors . . transparence . optical pyrometers optical relay systems . . turbidity RT ∞ optics ∞ optics acousto-optics radiation pyrometers albedo optical satellite tracking program birefringent filters optical radar RT ∞ optics clarity UF laser radar satellite tracking coefficients lidar coherent radiation GS optical scanners radaı cross polarization . optical radar DEF A light source and phototube combined darkness differential absorption lidar as a single unit for scanning moving strips of diffraction infrared radar paper or other materials in photoelectric sideelectrical properties laser altimeters register control systems. electromagnetic absorption GS optical equipment laser applications emittance optical scanners optical countermeasures excitons . . flying spot scanners Faraday effect over-the-horizon radar .. multispectral band scanners geometrical optics . . . thematic mappers (LANDSAT) radar detection alare optical range finders . optical scanners glass gradient index optics GS measuring instruments . . flying spot scanners haze . distance measuring equipment . . multispectral band scanners infrared absorption . thematic mappers (LANDSAT) . . range finders . . . optical range finders isotropy character recognition Kerr magnetooptical effect data acquisition . laser range finders light (visible radiation) . optical measuring instruments monitors light transmission . . optical range finders ∞ optics ... laser range finders lumens photon beams **luminance** optical equipment readers . optical measuring instruments lunar albedo television cameras metallic glasses . . optical range finders numerical aperture . . laser range finders optical sensors opalescence lunar rangefinding USE optical measuring instruments optical polarization ∞ optics optics optical signals optical reflection USE optical communication GS electromagnetic properties photoelectricity photons . optical properties

.. optical reflection

reflection

phototropism

physical optics

optical slant range

DEF The horizontal distance in a homoge-

neous atmosphere for which the attenuation is

#### optical switching

the same as that actually encountered along the Franck-Condon principle optical illusion optical measurement true oblique path. lasing luminescence optical measuring instruments distance . optical slant range ∞ optics optical memory (data storage) optical microscopes RT ∞ optics optical paths radar range optical waveguides optical polarization DEF Any device or component that guides optical spectrum optical energy. optical properties light (visible radiation) waveguides optical pumping GS . optical waveguides optical pyrometers optical radar optical range finders optical reflection optical switching . . scintillating fibers electro-optical switching corrugated waveguides optoelectronic switching optical relay systems dielectric waveguides photonic switching optical resonance integrated optics switching GS optical resonators laser outputs . optical switching optical satellite tracking program light beams acousto-optics optical scanners light transmission asynchronous transfer mode optical slant range optical bistability optical thickness optical tracking electro-optics ∞ optics free-space optical interconnects photonics integrated optics photorefractivity optical transfer function light modulation waveguide lasers optical transition magneto-optics optical waveguides optical bistability parallax ∞ optics optical interconnects photics (USE OF A MORE SPECIFIC TERM IS SN optical relay systems RECOMMENDED--CONSULT THE TERMS LISTED BELOW) photoelastic analysis optoelectronic devices physical optics Branch of physical science concerned DEF photonics prefocusing with the transmission, generation, manipulation, semiconductor lasers quantum optics and detection of electromagnetic radiation in the switching circuits reflection wavelength range from vacuum ultraviolet to the resolution far infrared. optical thickness scatter plates (optics) optical methods A measure of the cumulative attenua-UF science tion of electromagnetic radiation in transit acousto-optics Snells law through a medium. In calculations of the transfer adaptive optics spectroscopy of radiant energy, the mass of a given absorbing angular resolution or emitting material lying in a vertical column of unit cross sectional area and extending between two specific levels. Used for optical depth.

UF optical depth squeezed states (quantum theory) aspheric optics Starlab asphericity underwater optics astigmatism x ray optics atmospheric optics atom optics antireflection coatings RT optimal control Cassegrain optics Fermat principle UF optimum control caustics (optics) ∞ optics automatic control chromophores refractivity . optimal control crystal optics thickness . . H-2 control defocusing . . H-infinity control diffraction patterns optical tracking . . linear quadratic Gaussian control visual tracking diffraction propagation . . time optimal control diffractive optics GS tracking (position) optimization electron optics optical tracking . optimal control electro-optical effect ballistic cameras . . H-2 control electro-optical photography boresight error . . H-infinity control electro-optics boresights . . linear quadratic Gaussian control fiber optics compensatory tracking . time optimal control foci Global Tracking Network RT adaptive control Fresnel lenses infrared tracking geometrical optics gradient index optics ∞ control minitrack system control systems design control theory multiple target tracking multispectral tracking telescopes Huygens principle differential games oculometers images feedback control imaging techniques ∞ optics feedforward control integrated optics photographic tracking genetic algorithms range and range rate tracking ion optics inventory controls space detection and tracking system laser cavities Kalman-Schmidt filtering spacecraft tracking lasers linear quadratic regulator STDN (network) lens design model reference adaptive control visual observation lenses multivariable control light (visible radiation) parameter identification light amplifiers optical transfer function pursuit-evasion games OTF light emission tracking problem functions (mathematics) light modulation trajectory control magneto-optics . transfer functions zero sum games . . optical transfer function mirrors nonlinear optics adaptive optics cost analysis optical activity optimization figure of merit optical communication DEF The procedure used in the design of a optical correction procedure system to maximize or minimize some perforimaging techniques modulation transfer function optical countermeasures mance index. May entail the selection of a optical coupling component, a principle of operation, or a tech-∞ optics optical data processing ∞ performance nique. spaceborne telescopes system effectiveness optical data storage materials UF minimization optical density reduction (mathematics) systems analysis optical depolarization optimization optical emission spectroscopy flight optimization systems engineering optical equipment . genetic algorithms telescopes optical filters . linear quadratic regulator . . linear quadratic Gaussian control
 mathematical programming optical flow (image analysis) optical transition

optical gyroscopes

optical heterodyning

. . dynamic programming

electron transitions

emission spectra

. . linear programming voltage and current changes upon laser irradiaquadratures . . nonlinear programming spectroscopy . . quadratic programming orbit decay . multidisciplinary design optimization . absorption spectroscopy RT aerodynamic drag . operations research . optogalvanic spectroscopy atmospheric entry . optimal control . optical emission spectroscopy flight mechanics . . H-2 control . . laser spectroscopy orbital mechanics . . H-infinity control optogalvanic spectroscopy satellite lifetime . . linear quadratic Gaussian control utilization spacecraft breakup . time optimal control . laser applications . design optimization . . laser spectroscopy orbit determination . simplex method optogalvanic spectroscopy (added December 1998)
GS orbit determination . trajectory optimization flame spectroscopy . shape optimization Fraunhofer lines . airborne range and orbit RT ∞ applications of mathematics gas spectroscopy determination backpropagation (artificial intelligence) infrared spectroscopy . orbit calculation molecular spectroscopy Bellman theory . . minimum variance orbit optical equipment
optical measuring instruments Bolza problems determination constraints orbital position estimation Raman spectroscopy ultraviolet spectroscopy correlation Global Positioning System ∞ design position errors design analysis differential calculus volt-ampere characteristics satellite tracking space navigation efficiency extremum values spacecraft control optometry spacecraft position indicators optical measurement GS games gradients optometry anastigmatism orbit equations greedy algorithms USE orbital mechanics blindness eye (anatomy) haploscopes Hessian matrices Kalman filters orbit insertion Kalman-Schmidt filtering ∞ measurement (added January 1991) Lagrange multipliers DEF The process by which a spacecraft enters into a desired orbit around a celestial medical science least squares method vision maxima body. minima insertion . orbit insertion GS oral hygiene parameter identification hygiene GS penalty function . oral hygiene cleanliness RT ascent trajectories planning orbital maneuvers pontryagin principle dentistry orbital mechanics quality control payload delivery (STS) health range (extremes) public health satellite orbits ∞ reduction spacecraft launching teeth scheduling spacecraft maneuvers tooth diseases sensitivity analysis simulated annealing spacecraft orbits transfer orbits oratory static models USE public speaking steepest descent method Orbit Maneuvering Engine (Space Shuttle) stopping system identification OME UF **ORBIS** GS engines Taguchi methods orbiting radio beacon ionospheric UF . rocket engines trajectory control Wiener filtering sounder . . microrocket engines
. . . Orbit Maneuvering Engine artificial satellites GS . scientific satellites (Space Shuttle) ORBIS optimum control RT Aeromaneuvering Orbit to Orbit USE optimal control . ORBIS CAL satellite Shuttle ionospheric propagation ionospheric sounding orbital maneuvers optimum thrust programming space shuttles USE thrust programming radio beacons orbit perturbation options **ORBIS CAL satellite** evection alternatives RT artificial satellites
. gravity gradient satellites
. ORBIS CAL satellite GS perturbation contracts orbit perturbation selection . satellite perturbation site selection scientific satellites RT drift rate subcontracts ..ORBIS long term effects . ORBIS CAL satellite lunar effects optoelectronic devices ionospheric propagation orbital elements Electronic devices combining optic and ionospheric sounding orbital mechanics electric ports. radio beacons orbital resonances (celestial optoelectronic devices mechanics) . light emitting diodes perturbation theory . photodiodes orbit calculation Schach effect . phototransistors satellite orbit calculation vinti theory electro-optics computation fiber optics . orbit calculation orbit spectrum utilization
DEF Telecommunication free-space optical interconnects . . minimum variance orbit DEF Telecommunication techniques in spectrum conservation for reducing user costs. integrated circuits determination integrated optics . orbital position estimation microoptoelectromechanical systems optical interconnects communication satellites orbit determination . orbit calculation frequency assignment . . minimum variance orbit radio relay systems optical switching determination satellite orbits photonics . orbital position estimation systems engineering flight mechanics television systems optoelectronic switching USE optical switching Goddard Trajectory Determination

System

orbital elements orbital mechanics orbital resonances (celestial

mechanics)

optogalvanic spectroscopy

DEF A method of obtaining absorption spectra of atomic and molecular species in

flames and electrical discharges by measuring

orbit transfer vehicles

DEF Concept of propulsive (velocity producing) rockets or stages for use with crew transfer modules, manned sortie modules, or other payloads. Used for OTV.

UF OTVEarth orbits two body problem GS orbit transfer vehicles orbital motion . Aeromaneuvering Orbit to Orbit orbital maneuvering vehicles Shuttle USE orbits orbit transfer vehicles Inertial Upper Stage orbital position estimation orbital maneuvering vehicles orbital servicing power modules (STS) GS computation orbital servicing . orbit calculation payload delivery (STS) remotely piloted vehicles . orbital position estimation payload deployment & retrieval ∞ spacecraft estimating system payload retrieval (STS) . orbital position estimation orbital maneuvers orbit determination space shuttles space transportation GS maneuvers . orbit calculation . orbital maneuvers . orbital position estimation space tugs . . orbital rendezvous spacecraft celestial sphere ... Earth orbital rendezvous Goddard Trajectory Determination ∞ vehicles . . . lunar orbital rendezvous formation flying System orbital assembly navigation orbit insertion ∞ orientation construction in space UF spacecraft orbital assembly assembling Orbit Maneuvering Engine (Space position (location) Shuttle) position errors GS orbital assembly
Crew Equipment Translation Aid (ISS)
expandable structures
inflatable spacecraft space navigation ∞ range space shuttles satellite orbits spacecraft orbits spacecraft position indicators orbital mechanics state estimation self erecting devices orbit equations classical mechanics UF space erectable structures GS orbital rendezvous Space Operations Center (NASA) . space mechanics satellite rendezvous Space Station Mobile Servicing maneuvers System . . . Kepler laws . orbital maneuvers space station modules . . . minimum variance orbit . . orbital rendezvous space station structures determination ... Earth orbital rendezvous spacecraft modules RT Aeromaneuvering Orbit to Orbit . . lunar orbital rendezvous spacecraft structures Shuttle rendezvous apsides . space rendezvous orbital breakup astrodynamics ... orbital rendezvous USE spacecraft breakup celestial mechanics Earth orbital rendezvous circular orbits . lunar orbital rendezvous orbital elements drift rate Atlas launch vehicles DEF A set of seven parameters defining the Earth orbital rendezvous autonomous docking orbit of a body attracted by a central, inverse multiple docking adapters payload retrieval (STS) Earth orbits square force. Earth-Mars trajectories RT apsides payload retrieval (STS) rendezvous guidance rendezvous spacecraft rendezvous trajectories spacecraft docking spacecraft trajectories Earth-Mercury trajectories ∞ elements Earth-Moon system orbit calculation elliptical orbits orbit perturbation equatorial orbits orbits flight mechanics perihelions flight optimization perturbation theory tethering Goddard Trajectory Determination System orbital resonances (celestial mechanics)
DEF Systems of two or more satellites (including planets) that orbit the same primary and Orbital Flight Test 1 (shuttle) Hansen lunar theory USE Space Transportation System 1 Hill lunar theory flight Hill method whose orbital mean motions are in a ratio of interplanetary trajectories small whole numbers. Orbital Flight Test 2 (shuttle) interplanetary transfer orbits Lagrangian equilibrium points resonance orbital resonances (celestial GS USE Space Transportation System 2 flight lunar orbital rendezvous mechanics) lunar orbits astrodynamics Orbital Flight Test 3 (shuttle) many body problem
∞ mechanics (physics)
moon-Earth trajectories celestial mechanics USE Space Transportation System 3 gravitational effects fliaht libration orbit calculation librational motion Orbital Flight Test 4 (shuttle) orbit decay orbit calculation USE Space Transportation System 4 orbit insertion orbit perturbation flight orbit perturbation orbital mechanics orbital resonances (celestial oscillations orbital flight tests (shuttle) mechanics) planetary orbits USE Space Transportation System orbits planetary systems flights parking orbits satellite orbits perturbation solar orbits orbital launching planetary landing (LAUNCHING FROM AN ORBIT--EXCLUDES LAUNCHING INTO ORBIT FROM GROUND) Poynting-Robertson effect orbital servicing quadratures DEF The replenishing of propellants, pres-GS launching rendezvous surants, coolants, and the replacement of mod-. rocket launching rendezvous trajectories ules and experiments, during some phase of a . orbital launching retrograde orbits spacecraft flight to extend the mission and lifeinterplanetary trajectories round trip trajectories time, or change the payloads. lunar launch satellite orbits satellite repair Columbus space station large space structures payload delivery (STS) satellite perturbation spacecraft launching space navigation transfer orbits spacecraft orbits man tended free flyers stationkeeping manned maneuvering units swingby technique orbit transfer vehicles orbital lifetime orbital maneuvering vehicles The predicted lifetime of a satellite in thrust programming orbit, usually based on such criteria as solar flux trajectory analysis payload transfer density, atmospheric density, the lessening of the eccentricity of elliptical orbits, or the gravita-tional effects of the sun or the moon. transearth injection Space Operations Center (NASA) space platforms
Space Shuttle payloads
Space Station Freedom transfer orbits translunar injection

twenty-four hour orbits

RT attitude control

space stations Schwarzschild metric . Trojan orbits space transportation system airborne range and orbit Orbiting Astronomical Observatory determination telerobotics USE OAO apexes aphelions orbiting dipoles apogees orbital shots GS electric charge artificial satellites RT ∞ shot electric dipoles astrodynamics spacecraft launching orbiting dipoles celestial bodies communication equipment celestial mechanics orbital simulators ∞ dipoles o conjunction USE space simulators Earth-Venus trajectories Orbiting Frog Otolith
GS artificial satellites ephemerides orbital space tests RT CRRES (satellite) flight optimization . biosatellites
. . Orbiting Frog Otolith flight paths four body problem ground tracks environmental tests large space structures space mechanics spaceborne experiments **Orbiting Frog Otolith** ∞ inclination biological effects space stations RT interplanetary flight structural analysis biometrics lunar flight many body problem  $\infty \, tests$ biotelemetry instrument packages ∞ motion international cooperation orbital elements Orbital Test Satellite (ESA) Italian space program orbital mechanics USE OTS (ESA) otolith organs orbitals ∞ paths orbital transfer Orbiting Geophysical Observatory USE **OGO** perigees USE transfer orbits perihelions quadratures orbital velocity orbiting lunar stations Roche limit DEF The average velocity at which an Earth GS artificial satellites satellite ground tracks satellite or other orbiting body travel around its . lunar satellites Schwarzschild metric primary. The velocity of such a body at any given . . orbiting lunar stations space flight point in its orbit, i.e., orbital velocity at the . space stations space navigation apogee is less than at the perigee. orbiting lunar stations spacecraft guidance GS rates (per time) lunar spacecraft stationkeeping . orbital velocity . lunar satellites suborbital flight velocity . orbiting lunar stations three body problem orbital velocity stations trajectories angular velocity . space stations two body problem escape velocity . orbiting lunar stations lunar bases hypervelocity orchards velocity errors ∞ spacecraft RT agriculture orbiting radio beacon ionospheric sounder blight orbital workers citrus trees ORBIS GS personnel crop growth . flying personnel Orbiting Solar Observatory crop vigor . . astronauts ∞ crops USE OSO . . orbital workers curing astronaut locomotion farm crops orbitrons extravehicular activity ∞ food RT electron clouds space maintenance frost damage electron tubes space tools ionization gages fruits work capacity space charge irrigation nuts (fruits) vacuum gages orbital workshops plants (botany) GS artificial satellites rural land use orbits DEF The paths of bodies or particles under the influence of a gravitational or other force. Used for orbital motion and periodic orbits.

UF orbital motion . orbital workshops silviculture . . Saturn workshops trees (plants) . . Saturn 1 workshop . . Saturn 5 workshop order-disorder transformations . . Skylab 1 periodic orbits RT antiphase boundaries . . Skylab 2 GS orbits atomic structure Skylab 3 . circular orbits cluster variation method . Skylab 4 . stationary orbits crystal defects manned spacecraft . Earth orbits crystal lattices orbital workshops . . geosynchronous orbits crystal structure . . Saturn workshops low Earth orbits crystallography Saturn 1 workshop . . twenty-four hour orbits holes (electron deficiencies) Saturn 5 workshop . eccentric orbits metallography Skylab 1 . elliptical orbits microstructure Skylab 2 . . transfer orbits molecular structure Skylab 3 . . . interplanetary transfer orbits phase transformations . Skylab 4 . equatorial orbits solid solutions Apollo extension system . . stationary orbits ∞ transformations containerless melts lunar orbits manned orbital laboratories . planetary orbits Skylab program retrograde orbits ordnance space laboratories . solar orbits RT air to surface missiles space processing . spacecraft orbits ammunition space stations . . satellite orbits armor . . . geosynchronous orbits ballistics orbitals ... parking orbits explosives orbitals stationary orbits ground support equipment GS . electron orbitals . . . twenty-four hour orbits pyrotechnics . . transfer orbits tanks (combat vehicles) . molecular orbitals . . interplanetary transfer orbits trajectories Slater orbitals Jahn-Teller effect . polar orbits RT warfare

stellar orbits

orbits

weapon systems

| weapons   | acetylsalicylic acid             | chlorobenzenes                   |
|---|----------------------------------|----------------------------------|
|   | . amino acids                    | colchicine                       |
| Oregon  | alanine                          | cyclobutane                      |
| GS nations  | phenylalanine                    | cyclohexane                      |
| . United States                                       | aspartic acid                    | cyclopropane                     |
| <b>Oregon</b><br>RT Cascade Range (CA-OR-WA)          | cysteine                         | durene                           |
| Columbia River Basin (ID-OR-WA)                       | dopa                             | indene                           |
| Columbia Niver Basin (IB ON Wit)                      | folic acid                       | menthol                          |
| ores  | glutamic acid                    | naphthalene                      |
| USE minerals  | glutamine                        | naphthenes                       |
|   | glycine                          | polycyclic aromatic hydrocarbons |
| organ culturing                                       | hippuric acid                    | heterocyclic compounds           |
| (added August 2004)                                   | histidine                        | acriflavine                      |
| DEF The growth of animal organs in vitro.             | leucine<br>norleucine            | adenosines adenosine diphosphate |
| GS culture techniques                                 | lysine                           | adenosine dipriospriate          |
| . <b>organ culturing</b><br>RT cell culturing         | melanoidin                       | adenosine triphosphate           |
| clone cells   | methionine                       | cyclic AMP                       |
| culture media   | thyroxine                        | alkaloids                        |
| cultured cells  | tryptophan                       | atropine                         |
| microbiology  | tyrosine                         | betaines                         |
| tissue culturing                                      | . carbohydrates                  | caffeine                         |
| tissue engineering                                    | citric acid                      | colchicine                       |
|   | glucosides                       | ergotamine                       |
| organ weight  | nucleosides                      | hyoscine                         |
| GS weight (mass)                                      | adenines<br>guanosines           | lysergine<br>morphine            |
| . organ weight  | polysaccharides                  | nicotinamide                     |
| organelles  | cellulose                        | nicotina mide                    |
| GS organelles   | Fortisan (trademark)             | pilocarpine                      |
| . chloroplasts  | chitin                           | reserpine                        |
| . endoplasmic reticulum                               | dextrans                         | strychnine                       |
| sarcoplasmic reticulum                                | glycogens                        | tropyl compounds                 |
| . lysosomes   | starches                         | anisole                          |
| . mitochondria  | sugars                           | ascorbic acid                    |
| . nuclei (cytology)                                   | dextrans                         | azines                           |
| . plastids  | inositols                        | cyanurates                       |
| . ribosomes   | lactose                          | cyanuric acid                    |
| RT cells (biology)                                    | mannitol                         | meclizine                        |
| cytology  | monosaccharides<br>sucrose       | methylene blue phenothiazines    |
| cytoplasm   | sucrose                          | azoles                           |
| organic aluminum compounds                            | galactose                        | acetazolamide                    |
| GS aluminum compounds                                 | glucose                          | oxazole                          |
| . organic aluminum compounds                          | pentose                          | pyrroles                         |
| organometallic compounds                              | ribose                           | carbazoles                       |
| organic aluminum compounds                            | xylose                           | azulene                          |
| RT ∞ chemical compounds                               | . carboxylic acids               | bioflavonoids                    |
| ∞ metal compounds                                     | acrylic acid                     | biotin                           |
|   | alanine                          | carnitine                        |
| organic boron compounds                               | phenylalanine                    | cyanocobalamin                   |
| GS boron compounds                                    | aspartic acid<br>citric acid     | cytidylic acid                   |
| . <b>organic boron compounds</b><br>organic compounds | dicarboxylic acids               | dimenhydrinate<br>endrin         |
| . organic boron compounds                             | fatty acids                      | ethylene oxide                   |
| RT ∞ chemical compounds                               | acetic acid                      | folic acid                       |
|   | ethylenediaminetetraacetic acids | furans                           |
| organic charge transfer salts                         | iodoacetic acid                  | tetrahydrofuran                  |
| DEF Organic compounds exhibiting                      | acetylsalicylic acid             | guanethidine                     |
| temperature-dependent electrical, magnetic,           | benzilic acid                    | HMX                              |
| and heat transfer properties.                         | benzoic acid                     | nicotinic acid                   |
| GS organic compounds                                  | lipoic acid                      | phthalocyanin                    |
| . organic charge transfer salts                       | oleic acid                       | phylloquinone                    |
| RT charge transfer devices<br>organic superconductors | palmitic acid propionic acid     | piperidine<br>promethazine       |
| ∞ salts   | sebacic acid                     | prometrazine                     |
| semiconductors (materials)                            | valeric acid                     | adenines                         |
| comicon ductore (materiale)                           | abscisic acid                    | xanthines                        |
| organic chemistry                                     | folic acid                       | caffeine                         |
| DEF The study of the composition, proper-             | formhydroxamic acid              | guanines                         |
| ties, structure, and reactions of carbon-based        | formic acid                      | uric acid                        |
| compounds, specifically hydrocarbons and their        | Hexogenes (trademark)            | pyridines                        |
| derivatives, and normally excluding carbon ox-        | lactic acid                      | pyridoxine                       |
| ides, metallic carbonates, carbides, and carbon-      | lysine                           | pyrimidines                      |
| sulfur and carbon-nitrogen compounds.                 | nicotinic acid                   | alloxan                          |
| RT biochemistry  ∞ chemistry                          | oxalic acid<br>oxamic acids      | thymidine<br>thymine             |
| ∞ creating (chemical engineering)                     | tryptophan                       | urymine                          |
| cyclic compounds                                      | . choline                        | indoles                          |
| Diels-Alder reactions                                 | . coenzymes                      | RDX                              |
| histochemical analysis                                | adenosine diphosphate            | retinene                         |
| methoxy systems                                       | adenosine triphosphate           | riboflavin                       |
| optical activity                                      | cyclic AMP                       | tetracyclines                    |
| physiochemistry                                       | glutathione                      | tetrazoles                       |
|   | thiamine                         | thiamine                         |
| organic compounds                                     | . cyclic compounds               | thiazine (trademark)             |
| GS organic compounds                                  | cyclic hydrocarbons              | thiophenes                       |
| . acetyl compounds                                    | anthracene                       | tocopherol                       |
| acetylacetone   | benzene                          | trimethadione                    |

. . . . tryptamines . . phenanthrene . . . trypsin . . . . tryptophan . . fibrin . . pyrenes . . globulins . . . . . melatonin . . quinoxalines . . . fibrinogen stilbene serotonin . . toluene . . . gamma globulin . . . imidazoles . . rhodamine . . triphenyls . . hemoglobin . diethyl compounds . xylene . . . carboxyhemoglobin . . . oxyhemoglobin . . diethyl ether kerogen diethyl hydrogen phosphite (DEHP) lead organic compounds . . keratins . dimethyl compounds . lead acetates . . lipoproteins dimethylhydrazines . lipids . . luminescent proteins . fluorine organic compounds . . calciferol . . melanin . . fluoroamines . . castor oil . . myoglobin . . myosins nitrofluoramines fats . trifluoroamine oxide . . lipoproteins . . osteocalcin fluorocarbons phylloquinone phytochrome fluorohydrocarbons . . retinene . . proteinoids carbon tetrafluoride . . prothrombin . . steroids . . chlorofluoromethane . . protoproteins . . . cholesterol . polytetrafluoroethylene . . . corticosteroids . . tumor suppressor proteins . . teflon (trademark) . nitriles . . . . aldosterone fluoropolymers
. polytetrafluoroethylene . . . . hydroxycorticosteroid . . . . cortisone . quinoline . auinones .... glucocorticoids
... estrogens
... prostaglandins
. tocopherol volatile organic compounds
 acetonitrile teflon (trademark) KEL-F ... NCL-r
... polyvinyl fluoride
.. perfluoroalkane
.. perfluoroguanidine
. hydrocarbons
.. aliphatic hydrocarbons . acrylonitriles
. acrylonitriles
. polyacrylonitrile
. malononitrile
. phosphonitriles
. succinonitrile . nucleic acids
. deoxyribonucleic acid
. . complementary DNA
. ribonucleic acids . ethylene compounds . alkanes . . chloroethylene . . . trichloroethylene . nucleotides . . butanes . . adenines . cetane . . adenosines ethoxy ethylene ethane ... adenosine diphosphate . . ethylene dihydrazine . . . heptanes methane adenosine monophosphate ethylenediamine . nitropropane adenosine triphosphate ethylenediaminetetraacetic acids . . . nonanes . . . cyclic AMP . . succinonitrile oligonucleotides octanes . amines . . . paraffins . . aminophylline polynucleotides . ceresin pyridine nucleotides . . amphetamines . . . pentanes . uridylic acid ... methamphetamine . neopentane organic boron compounds . . aniline . . . propane organic charge transfer salts . . catecholamine alkenes organic germanium compounds epinephrine . . . butenes organic liquids . . . norepinephrine ethylene organic lithium compounds cysteamine organic peroxides . . diamines . vinylidene hexenes . organic phosphorus compounds ethylenediamine . . . propylene . . phosphazene quanidines trienes phosphene guanethidine . . phosphonitriles . . . . triaminoguanidinium azide . . . alkynes ... acetylene ... oxyacetylene uridylic acid difluorourea . organic silicon compounds . . dimenhydrinate . dimenhydrnate
. dimethylhydrazines
. diphenyl hydantoin
ergotamine
. fluoroamines
. nitrofluoramine oxide triphenyl silicon
 organic sulfur compounds
 organic tin compounds
 pentanone dienes . . . butadiene heptadiene hexadiene . . . polybutadiene . . . carotenoids peptides . polypeptides
. angiotensins
. glutathione gallamine triethiodide
hexamethylenetetramine carotene cubane cyanoacetylene hypertensin . histidine . hydroxylamine sulfate cyclic hydrocarbons vasopressins polynuclear organic compounds anthracene hyoscine . mecamylamine benzene propargyl groups chlorobenzenes proteins melamine . . methylene diamine colchicine . albumins ... monoethanolamine (MEA) . cyclobutane . . aspartates cyclohexane calmodulin nitroamines cyclopropane elastin . . nitrosamine . durene enzymes . . promethazine . . . indene aldolase . . tetrafluorohydrazine menthol amidase . . tetryl carbonic anhydrase . naphthalene . . thiuronium naphthenes catalase . . trinitramine . polycyclic aromatic hydrocarbons cholinesterase . . tryptamines diphenyl compounds cytochromes . . . melatonin . diphenyl hydantoin dehydrogenases . . . serotonin fluorohydrocarbons hexokinase . acetylcholine carbon tetrafluoride lysozyme RT alcohols chlorofluoromethane nuclease aldehydes . polytetrafluoroethylene aliphatic compounds . oxidase alkyl compounds ∞ aromatic compounds . teflon (trademark) papain . . mesitylene pepsin . . methylene phosphatases . . methylidyne chemical evolution protease . . natural gas esters renin

. . . thrombin

. . . liquefied natural gas

ethers

hydroxyl compounds RT ∞ chemical compounds wool metabolites methoxy systems organic moderated reactors organic superconductors methyl compounds GS nuclear reactors (added May 1991) GS conductors nitroso compounds . organic moderated reactors organic superconductors . . experimental organic cooled . superconductors (materials) organic wastes (fuel conversion) reactors . organic superconductors organometallic compounds organic charge transfer salts ∞ salts organic nitrates organic compounds GS esters organic semiconductors organic nitrates organic coolants GS coolants . . cellulose nitrate organic tin compounds . . nitroforms GS organic compounds
organic tin compounds . organic coolants . . . hydrazine nitroform organometallic compounds organic tin compounds nitroglycerin organic cooled reactors PETN orgel reactor nitrogen compounds tin compounds . organic tin compounds nuclear reactors . nitrates . liquid cooled reactors . organic nitrates RT ∞ chemical compounds organic cooled reactors . . . cellulose nitrate ... experimental organic cooled . . . nitroforms reactors . . . . hydrazine nitroform reactor design organic wastes (fuel conversion) . . . nitroglycerin RT ∞ conversion reactor technology energy conversion garbage organic fluorine compounds organic peroxides human wastes USE fluorine organic compounds Organic compounds containing radical metabolic wastes groups combined with oxides in which two atorganic compounds oms of oxygen are linked together, e.g., diethyl organic germanium compounds residues peroxide. GS germanium compounds sewage GS chalcogenides organic germanium compounds sludge . oxides organic compounds wastes . . anhydrides organic germanium compounds . . . peroxides organometallic compounds organisms .... organic peroxides organic germanium compounds RT animals organic compounds RT ∞ chemical compounds . organic peroxides air pollution biomass ∞ metal compounds carbon cycle deep scattering layers hydrocarbons organic lasers plants (botany) inorganic peroxides stimulated emission devices . lasers organizations organic phosphorus compounds . . organic lasers associations GS organic compounds . . dye lasers organizations . organic phosphorus compounds carbon dioxide lasers European Space Agency . . phosphazene carbon lasers . federations . . phosphene chemical lasers . bureaus (organizations) . . phosphonitriles gas lasers . ISRO uridylic acid infrared lasers . North Atlantic Treaty Organization phosphorus compounds liquid lasers (NATO) organic phosphorus compounds . World Meteorological Organization . . phosphazene organic liquids teams phosphene GS liquids **United Nations** . . phosphonitriles . organic liquids . uridylic acid organic compounds organizing RT ∞ chemical compounds organic liquids personnel pyruvates unionization organic semiconductors xanthic acids semiconductors (materials) organic semiconductors organometallic compounds organic lithium compounds RT ∞ chemical compounds metallorganic compounds lithium compounds conducting polymers organometallic compounds . organic lithium compounds conductors . chlorophylls organic compounds organic superconductors . ferrocenes organic lithium compounds semiconductor devices . alkylferrocene organometallic compounds . hemoglobin organic lithium compounds organic silicon compounds . . carboxyhemoglobin RT ∞ chemical compounds GS organic compounds . oxyhemoglobin  $\infty \, metal \, \, compounds$ . organic silicon compounds . organic aluminum compounds . triphenyl silicon . organic germanium compounds . organic lithium compounds silicon compounds organic materials . organic silicon compounds . organic tin compounds organic materials . . triphenyl silicon . porphines peat RT ∞ chemical compounds alkoxides biodegradability chelates carbonaceous materials ∞ chemical compounds cork (materials) organic solids metal compounds cotton fibers DEF Solid materials composed of organic metalloids elastomers materials. metalorganic chemical vapor linen GS solids deposition organic solids ∞ materials organic compounds synthetic metals tetrabutyls

RT

astronomical spectroscopy

dissolved organic matter

. organic sulfur compounds

. organic sulfur compounds

organometallic polymers

dendrimers polycarbosilanes

∞ polymers

metallosiloxane polymers

metalloxane polymers

planetary atmospheres

cosmic dust

organic sulfur compounds

GS organic compounds

sulfur compounds

molds

plastics 

rosin

rubber

wood

paper (material)

phase change materials

thermochromatic materials

|           | polysilanes  |           | subcritical flow                                |          | Orionid meteoroids      |
|-----------|--|-----------|---|----------|-------------------------|
|           |  |           | supercritical flow                              |          | . meteoroids            |
| organon   | netallic vapor deposition                              |           | turbulent flow                                  |          | Orionid meteoroids      |
|           | metalorganic chemical vapor                            |           | unsteady flow                                   | RT       | Aquarid meteoroids      |
| 002       | deposition   |           | unsteady now                                    | 13.1     | Aquana meteorolas       |
|           | исрозиюн   | orifices  |   | Orling o | 200                     |
| oraono    |  |           | annular duata                                   | Orlicz s |                         |
| organs    | (FOR OREGIFIO ORGANIC ORGANI                           | IXI       | annular ducts                                   | KI       | set theory              |
| SN        | (FOR SPECIFIC ORGANS, ORGAN<br>SUBSTRUCTURES AND ORGAN |           | apertures                                       |          |                         |
|           | SYSTEMS SEE ANATOMY)                                   |           | cavities  | ornithop | ter aircraft            |
|           | organs   |           | chokes (fuel systems)                           | USE      | research aircraft       |
| -         | . viscera  |           | chokes (restrictions)                           |          |                         |
| DT        |  |           | ducts   | Ornstei  | n-Uhlenbeck process     |
| RT        | anatomy  |           | flow measurement                                |          | processes               |
|           | cells (biology)  |           | flowmeters                                      | IX I ≪   | processes               |
|           | circulatory system                                     |           |   |          |                         |
|           | digestive system                                       |           | gaps  | orograpi | hic clouds              |
|           | gastrointestinal system                                |           | injectors                                       | USE      | cap clouds              |
|           | genitourinary system                                   | 000       | nozzles   |          | •                       |
|           |  |           | openings  | orogran  | hy                      |
|           | glands (anatomy)                                       | 00        | operations                                      | orograp  | _                       |
|           | respiratory system                                     |           | orifice flow                                    | GS       | geography               |
|           | sense organs   |           |   |          | . orography             |
|           | tissue engineering                                     |           | ports (openings)                                |          | geology                 |
|           | tissues (biology)                                      |           | spray nozzles                                   |          | . orography             |
|           |  |           | throats   | RT       | cones (volcanoes)       |
| OR-gate   | .0   |           | Venturi tubes                                   | 111      | geomorphology           |
| _         |  |           |   |          |                         |
| USE       | gates (circuits)                                       | Origin of | f Plasmas in Earth Neighborhood                 |          | isostasy                |
|           |  |           | OPEN Project                                    |          | Mars volcanoes          |
| orgel rea | actor  | USL       | OF EN FTOJECT                                   |          | mountains               |
| ŬSE       | organic cooled reactors                                | !         |   |          | peaks (landforms)       |
| 002       | organie ocoroa roadioro                                | ∞ origins |   |          | volcanoes               |
| Oranail   | meteorite  | SN        | (USE OF A MORE SPECIFIC TERM IS                 |          |                         |
| -         |  |           | RECOMMENDEDCONSULT THE TERMS                    |          | volcanology             |
| GS        | celestial bodies                                       | DT        | LISTED BELOW)                                   |          |                         |
|           | . meteorites   | RT        | causes  | orreries |                         |
|           | stony meteorites                                       |           | coordinates                                     | USE      | astronomical models     |
|           | carbonaceous meteorites                                |           | derivation                                      |          |                         |
|           | carbonaceous chondrites                                |           | graphs (charts)                                 | Orr-Son  | nmerfeld equations      |
|           |  |           | meteorite parent bodies                         |          |                         |
|           | Orgueil meteorite                                      |           | petrogenesis                                    | KI∝      | equations               |
|           | chondrites   |           | petrogenesis                                    |          | flow distortion         |
|           | carbonaceous chondrites                                | 0-1 (-    | - di- i-tft                                     |          | flow stability          |
|           | Orgueil meteorite                                      | •         | adio interferometry network)                    |          | flow theory             |
|           | _  | DEF       | An operational radio interferometry ob-         |          | quantum mechanics       |
| ORIC cy   | vclotron   | servation | nal network.                                    |          | velocity distribution   |
| -         | Oak Ridge isochronous cyclotron                        | GS        | networks  |          | volocity distribution   |
| USE       | Oak Ridge isochronous cyclotron                        |           | . Orion (radio interferometry                   |          |                         |
|           |  |           | network)  | orthicor |                         |
| orientat  | ion  | DT        | ,   | GS       | electron tubes          |
| SN        | (USE OF A MORE SPECIFIC TERM IS                        | RT        | radio interferometers                           |          | . camera tubes          |
|           | RECOMMENDEDCONSULT THE TERMS                           |           | radio receivers                                 |          | orthicons               |
|           | LISTED BELOW)  |           | tracking networks                               |          | image orthicons         |
| RT        | alignment  |           | _   | DT       |                         |
|           | attitude (inclination)                                 | Orion ail | rcraft  | RT       | image intensifiers      |
|           | azimuth  |           | P-3 aircraft                                    |          | photocathodes           |
|           | bearing (direction)                                    | OOL       | 1 -5 anciait                                    |          | television cameras      |
|           | Bragg angle  | Orion     | anatallatian                                    |          | television equipment    |
|           | 00 0   |           | onstellation                                    |          |                         |
|           | collimation  | GS        | constellations                                  | ortho h  | ydrogen                 |
|           | crystallography  |           | . Orion constellation                           |          |                         |
|           | directivity  | RT        | Opik theory                                     | GS       | gases                   |
|           | education  |           | Orion nebula                                    |          | . ortho hydrogen        |
|           | fiber orientation                                      |           | Sigma Orionis                                   | RT       | hydrogen                |
|           | field strength   |           | olgina ononis                                   |          |                         |
|           | horizontal orientation                                 | Orion or  | ew vehicle                                      | ortho n  | ara conversion          |
|           |  |           |   | GS       | isomerization           |
|           | instrument orientation                                 |           | ed November 2006)                               | 00       |                         |
|           | isotropy   | USE       | Crew Exploration Vehicle                        |          | . ortho para conversion |
|           | optical properties                                     |           |   | RI∝      | conversion              |
|           | orbital position estimation                            | Orion no  | ebula   |          | para hydrogen           |
|           | ply orientation  | DEF       | An H 11 region about 500 pc distant             |          |                         |
|           | polarization (spin alignment)                          |           | ely visible to the naked eye in the center      | orthogo  | nal functions           |
|           | polarization (waves)                                   |           | 's sword.                                       | GS       | analysis (mathematics)  |
|           |  |           |   | 00       | . complex variables     |
|           | position (location)                                    | GS        | celestial bodies                                |          |                         |
|           | positioning  |           | . nebulae                                       |          | orthogonal functions    |
|           | sound localization                                     |           | Orion nebula                                    |          | Walsh function          |
|           | vertical orientation                                   |           | hydrogen clouds                                 |          | functions (mathematics) |
|           | vertical perception                                    |           | . Orion nebula                                  |          | . orthogonal functions  |
|           | visual perception                                      | RT        | astrophysics                                    |          | Walsh function          |
|           | visual perception                                      | IXI       |   | RT       | Bessel functions        |
|           | 1.   |           | Cassiopeia A                                    | 17.1     |                         |
| orifice f |  |           | Crab nebula                                     |          | exponential functions   |
| GS        | fluid flow   |           | galaxies  |          | function space          |
|           | . orifice flow   |           | Gum nebula                                      |          | Hankel functions        |
| RT        | choked flow  |           | interstellar gas                                |          | hyperbolic functions    |
|           | critical flow  |           | interstellar matter                             |          | Laguerre functions      |
| ~         | flow   |           | irregular galaxies                              |          | Legendre functions      |
| -         | gas flow   |           |   |          | linear transformations  |
|           |  |           | Magellanic clouds                               |          |                         |
|           | grazing flow   |           | Milky Way Galaxy                                |          | Mathieu function        |
|           | laminar flow   |           | Opik theory                                     |          | orthogonality           |
|           | liquid flow  |           | Orion constellation                             |          | orthonormal functions   |
|           | multiphase flow  |           | planetary nebulae                               |          | quality control         |
|           | orifices   |           | stellar coronas                                 |          | =                       |
|           | pipe flow  |           | supernovae                                      | orthogo  | nal multiplexing theory |
|           | p.po 11011   |           | συροπιονασ                                      | RT       | pulse communication     |
|           | proceure gradients                                     |           |   | K I      | puise communication     |
|           | pressure gradients                                     | 0-1       | mataaraida                                      |          |                         |
|           | single-phase flow                                      |           | meteoroids                                      |          | signal transmission     |
|           |  |           | meteoroids celestial bodies . meteoroid showers |          |                         |

wavelength division multiplexing compressibility effects spectral line width flow distortion orthogonality nonequilibrium flow Kronecker product UF small perturbation flow oscillators GS moments Strouhal number DEF Nonrotating devices for producing al-. distribution moments surface tension driven convection ternating current. . orthogonality wave oscillators statistical analysis oscillators oscillation dampers variance (statistics) autodynescrystal oscillatorspiezoelectric crystals RT ∞ absorbers . . multivariate statistical analysis ∞ dampers . . orthogonality Maxwell bodies covariance . harmonic oscillators nonoscillatory action experiment design nonstabilized oscillation . mechanical oscillators factor analysis nutation dampers . . pendulums orthogonal functions springs (elastic) . gyroscopic pendulums quality control vibration isolators . microwave oscillators . . magnetrons orthography . . nigotrons oscillations handwriting intelligibility RT . molecular oscillators DFF Fluctuations or vibrations on each side . relaxation oscillators of a mean value or position. One oscillation is languages . . phantastrons half an oscillatory cycle, consisting of a fluctualinguistics synchronized oscillators tion or vibration in one direction; half a vibration. semantics . vacuum tube oscillators The variation, usually with time, of the magnisyntax voltage controlled oscillators tude of a quantity with respect to a specified words (language) amplifiers reference when the magnitude is alternately automatic frequency control greater and smaller than the reference. Used for orthonormal functions cavity resonators phugoid oscillations. functions (mathematics) circuits UF phugoid oscillations orthonormal functions electron tubes oscillations orthogonal functions feedback . airfoil oscillations wavelet analysis feedback amplifiers . . wing oscillations flip-flops orthopedics . . . wing rock frequency pulling medical science electron oscillations GS frequency stability harmonic oscillation . orthopedics frequency synthesizers harmonic generators . hydrofoil oscillations orthophotography . molecular oscillations inverters . nonoscillatory action imagery microwave tubes . nonstabilized oscillation . photography ∞ motion . orthophotography . plasma oscillations multivibrators aerial photography pressure oscillations negative feedback nonoscillatory action nonstabilized oscillation color photography self oscillation Southern Oscillation mapping . stable oscillations orthostatic tolerance oscillations . stellar oscillations oscillator strengths bed rest . . solar oscillations blood pressure parametrons transient oscillations . transverse oscillation fluid shifts (biology) periodic variations perturbation head down tilt . H waves positive feedback head up tilt Madden-Julian Oscillation human tolerances resonant frequencies quasi-biennial oscillation lower body negative pressure undamped oscillations resonators posture self excitation amplitudes semiconductor devices tilt-table test Brunt-Vaisala frequency tolerances (physiology) signal generators crystal oscillators solid state devices damping orthotropic cylinders subharmonic generators feedback RT ∞ cylinders superconducting cavity resonators ∞ motion cylindrical bodies transformers nonuniformity cylindrical shells vibration orbital resonances (celestial rocket engine cases mechanics) oscillating cylinders orthotropic plates oscillograms oscillators structural members USE oscillographs pendulums . plates (structural members) periodic variations . orthotropic plates perturbation resonance oscillographs orthotropic shells resonant vibration oscillograms shells (structural forms) GS measuring instruments ∞ rhythm . orthotropic shells cylindrical shells spacecraft motion . oscillographs springs (elastic) recording instruments metal shells oscillographs syntony reinforced shells traveling wave tubes RT Barkhausen effect shell stability vibration electrical measurement thin walled shells vibration tests oscilloscopes time measurement orthotropism plates (structural members) oscillator strengths DEF A quantum mechanical analog of the oscillating cylinders number of dispersion electrons having a given oscilloscopes RT ∞ cylinders natural frequency in an atom, used in an equa-Instruments for producing visual reprecylindrical bodies tion for the absorption coefficient of a spectral sentations of oscillations or changes in an eleccylindrical shells tric current. absorption spectra oscillations cathode ray tubes absorptivity electronic equipment tests vibration electron oscillations flying spot scanners oscillating flow electron transitions frequency analyzers oscillographs line spectra GS fluid flow . unsteady flow molecular oscillations sweep circuits oscillating flow sweep frequency molecular oscillators

oscillators

synchroscopes

RT

buffeting

|            | video equipment                          |             | water balance  |       | solar observatories                  |
|------------|--|-------------|--|-------|--------------------------------------|
|            | mass squipmont                           |             | water balance  |       | OSO                                  |
| osculation | ons                                      |             | pressure   |       | OSO-1                                |
| USE        | double cusps                             | USE         | osmosis  |       | . geophysical observatories          |
|            | -  | oso         |  |       | OSO                                  |
| Oseen a    | approximation                            | UF          | Orbiting Solar Observatory                           | RT    | <b>OSO-1</b> Delta launch vehicle    |
| GS         | analysis (mathematics)                   | GS          | artificial satellites                                | 101   | Delta laurion veriloie               |
|            | . numerical analysis                     |             | . geophysical satellites                             | OSO-2 |                                      |
|            | approximation Oseen approximation        |             | <b>OSO</b><br>AOSO                                   | UF    | OSO-B                                |
| RT         | incompressible fluids                    |             | OSO-1  | GS    | S-17 satellite artificial satellites |
|            | Navier-Stokes equation                   |             | OSO-2  | 00    | . geophysical satellites             |
|            | Roshko prediction                        |             | OSO-3  |       | OSO                                  |
|            | Stokes flow                              |             | OSO-4  |       | OSO-2                                |
|            | viscous fluids                           |             | OSO-5  |       | scientific satellites                |
| osmium     |  |             | OSO-6<br>OSO-7                                       |       | astronomical satellites OSO          |
| GS         | chemical elements                        |             | OSO-8  |       | OSO-2                                |
|            | . osmium                                 |             | OSO-C  |       | observatories                        |
|            | osmium isotopes                          |             | . scientific satellites                              |       | . astronomical observatories         |
|            | metals                                   |             | astronomical satellites OSO                          |       | astronomical satellites              |
|            | . refractory metals osmium               |             | AOSO   |       | OSO<br><b>OSO-2</b>                  |
|            | osmium isotopes                          |             | 080-1  |       | solar observatories                  |
|            | . transition metals                      |             | OSO-2  |       | OSO                                  |
|            | osmium                                   |             | OSO-3  |       | OSO-2                                |
|            | osmium isotopes                          |             | OSO-4<br>OSO-5                                       |       | . geophysical observatories          |
|            | refractory materials                     |             | OSO-6  |       | OSO<br><b>OSO-2</b>                  |
|            | . refractory metals osmium               |             | OSO-7  | RT    | Delta launch vehicle                 |
|            | osmium isotopes                          |             | OSO-8  |       |                                      |
|            | ·  |             | OSO-C  | OSO-3 |                                      |
| osmium     | alloys                                   |             | observatories . astronomical observatories           | UF    | OSO-E<br>artificial satellites       |
| GS         | alloys                                   |             | . astronomical observatories                         | GS    | . geophysical satellites             |
|            | . heat resistant alloys                  |             | OSO  |       | OSO                                  |
|            | refractory metal alloys<br>osmium alloys |             | AOSO   |       | OSO-3                                |
|            | refractory materials                     |             | OSO-1  |       | . scientific satellites              |
|            | . refractory metal alloys                |             | OSO-2<br>OSO-3                                       |       | astronomical satellites              |
|            | osmium alloys                            |             | OSO-3  |       | OSO<br><b>OSO-3</b>                  |
|            |  |             | OSO-5  |       | observatories                        |
|            | compounds                                |             | OSO-6  |       | . astronomical observatories         |
|            | chemical compounds                       |             | 080-7  |       | astronomical satellites              |
|            | Group 8 compounds<br>metal compounds     |             | 0S0-8  |       | OSO                                  |
| ~          | metal compounds                          |             | OSO-C solar observatories                            |       | OSO-3 solar observatories            |
| osmium     | isotopes                                 |             | OSO  |       | OSO                                  |
| GS         | chemical elements                        |             | AOSO   |       | OSO-3                                |
|            | . nuclides                               |             | OSO-1  |       | . geophysical observatories          |
|            | isotopes                                 |             | OSO-2  |       | OSO                                  |
|            | osmium isotopes<br>. osmium              |             | OSO-3<br>OSO-4                                       |       | OSO-3                                |
|            | . osmium isotopes                        |             | OSO-5  | OSO-4 |                                      |
|            | metals                                   |             | OSO-6  | UF    | OSO-D                                |
|            | . refractory metals                      |             | OSO-7  | GS    | artificial satellites                |
|            | osmium                                   |             | OSO-8<br>OSO-C                                       |       | . geophysical satellites OSO         |
|            | osmium isotopes<br>. transition metals   |             | geophysical observatories                            |       | OSO-4                                |
|            | osmium                                   |             | 080  |       | . scientific satellites              |
|            | osmium isotopes                          |             | AOSO   |       | astronomical satellites              |
|            | refractory materials                     |             | OSO-1  |       | OSO                                  |
|            | . refractory metals                      |             | OSO-2<br>OSO-3                                       |       | OSO-4<br>observatories               |
|            | osmiumosmium isotopes                    |             | OSO-4  |       | . astronomical observatories         |
|            | Osimum isotopes                          |             | OSO-5  |       | astronomical satellites              |
| osmom      | eters                                    |             | OSO-6  |       | OSO                                  |
| GS         | measuring instruments                    |             | OSO-7  |       | OSO-4                                |
|            | . pressure gages                         |             | OSO-8<br>OSO-C                                       |       | solar observatories OSO              |
|            | osmometers                               | RT          | sun  |       | OSO-4                                |
|            |  |             | Thor Delta launch vehicle                            |       | . geophysical observatories          |
| osmosi     |  | 000.4       |  |       | OSO                                  |
| UF         | hypertonia osmotic pressure              | OSO-1<br>UF | OSO-A  | RT    | <b>OSO-4</b> Delta launch vehicle    |
| GS         | osmosis                                  | O1          | S-16 satellite                                       | KI    | Dona laurion veriide                 |
|            | . reverse osmosis                        | GS          | artificial satellites                                | OSO-5 |                                      |
| RT         | cell membranes (biology)                 |             | . geophysical satellites                             | UF    | OSO-F                                |
|            | demineralizing                           |             | 080  | GS    | artificial satellites                |
|            | desalinization diaphragms (mechanics)    |             | OSO-1 . scientific satellites                        |       | . geophysical satellites OSO         |
|            | diffusion                                |             | . astronomical satellites                            |       | <b>OSO-5</b>                         |
|            | extraction                               |             | OSO  |       | . scientific satellites              |
|            | homeostasis                              |             | OSO-1  |       | astronomical satellites              |
|            | isotonicity                              |             | observatories  |       | OSO                                  |
|            | membranes<br>permeating                  |             | . astronomical observatories astronomical satellites |       | OSO-5<br>observatories               |
|            | pressure                                 |             | OSO  |       | . astronomical observatories         |
| ~          | separation                               |             | 080-1  |       | astronomical satellites              |

|          | OSO                                    | OSO-C  | which the acronym is derived. The system        |
|----------|--|--|---|
|          | OSO-5                                  |  | included the feature identification and locatio |
|          |  | . scientific satellites  |   |
|          | solar observatories                    | astronomical satellites  | experiment-1 (FILE-1), the measurement of a     |
|          | OSO                                    | OSO  | mospheric pollution from satellite (MAPS), the  |
|          | OSO-5                                  | OSO-C  | imaging camera-B, and the large forma           |
|          | . geophysical observatories            | observatories  | camera/attitude reference system (LFC/ARS)      |
|          | OSO                                    | . astronomical observatories                                   | Used for Office of Space & Terrestr Applic Pay  |
|          |  |  |   |
|          | OSO-5                                  | astronomical satellites  | loads.  |
|          |  | OSO  | UF Office of Space & Terrestr Applic            |
| OSO-6    |  | OSO-C  | Payloads  |
| UF       | OSO-G                                  | solar observatories  | GS payloads                                     |
|          | artificial satellites                  |  |   |
| GS       |  | OSO  | . Space Shuttle payloads                        |
|          | . geophysical satellites               | OSO-C  | OSTA-3 payload                                  |
|          | OSO                                    | . geophysical observatories                                    | RT remote sensing                               |
|          | OSO-6                                  | OSO  | space transportation system                     |
|          | . scientific satellites                | OSO-C  | spaceborne experiments                          |
|          | astronomical satellites                | RT Delta launch vehicle  |   |
|          |  | RT Della lauficit verlicie                                     | spacecraft equipment                            |
|          | OSO                                    | 000 0  |   |
|          | OSO-6                                  | OSO-D  | osteoblasts                                     |
|          | observatories                          | USE OSO-4  | (added June 2001)                               |
|          | . astronomical observatories           |  | DEF Bone-forming cells that secrete an ex       |
|          | astronomical satellites                | OSO-E  | tracellular matrix. Hydroxyapatite crystals ar  |
|          |  | USE OSO-3  |   |
|          | OSO                                    | 002 000 0  | then deposited into the matrix to form bone.    |
|          | OSO-6                                  | 000 5  | GS cells (biology)                              |
|          | solar observatories                    | 0S0-F  | . osteoblasts                                   |
|          | OSO                                    | USE OSO-5  | RT bone demineralization                        |
|          | OSO-6                                  |  | bone mineral content                            |
|          |  | OSO-G  |   |
|          | . geophysical observatories            | USE OSO-6  | bones   |
|          | OSO                                    |  | cytogenesis                                     |
|          | OSO-6                                  | OSO-H  | fibroblasts                                     |
|          |  | USE <b>OSO-7</b>   | osteocalcin                                     |
| OSO-7    |  | USE <b>USU-</b> 1  | osteogenesis                                    |
| UF       | OSO-H                                  |  | osteoporosis                                    |
|          |  | OSO-J  | Osteoporosis                                    |
| GS       | artificial satellites                  | USE OSO-8  |   |
|          | . geophysical satellites               |  | osteocalcin                                     |
|          | OSO                                    | Osprey aircraft  | (added August 2004)                             |
|          | OSO-7                                  | USE V-22 aircraft  | DEF Vitamin K-dependent calcium-bindin          |
|          | . scientific satellites                | USE V-22 difficial   | protein synthesized by osteoblasts and foun-    |
|          |  |  |   |
|          | astronomical satellites                | Osprey missile   | primarily in bone.                              |
|          | OSO                                    | GS missiles  | GS biopolymers                                  |
|          | OSO-7                                  | . Osprey missile   | . proteins                                      |
|          | observatories                          | RT J-85 engine   | osteocalcin                                     |
|          | . astronomical observatories           | 111 0 00 crigino   | organic compounds                               |
|          |  | 000 4 manda ad   |   |
|          | astronomical satellites                | OSS-1 payload  | . proteins                                      |
|          | OSO                                    | DEF Experiment package flown aboard the                        | osteocalcin                                     |
|          | OSO-7                                  | Space Shuttle STS-3 in 1982 which was spon-                    | RT bone demineralization                        |
|          | solar observatories                    | sored by the NASA Office of Space Sciences                     | bone mineral content                            |
|          | OSO                                    | from which the acronym is derived.                             | bones   |
|          |  |  |   |
|          | OSO-7                                  | GS payloads  | calcification                                   |
|          | . geophysical observatories            | . Space Shuttle payloads                                       | calcium   |
|          | OSO                                    | OSS-1 payload  | osteoblasts                                     |
|          | OSO-7                                  | RT exploration   | phylloquinone                                   |
| RT       | dual spin spacecraft                   | Get Away Specials (STS)  | F7  |
| 1 ( )    | duai spiii spaccorait                  |  | ostoogonosis                                    |
| 0000     |  | investigation  | osteogenesis                                    |
| OSO-8    |  | NASA programs  | (added August 2004)                             |
| DEF      | One of a series of NASA orbiting solar | space transportation system                                    | DEF The process of bone formation. Histo        |
| observat | tories developed mainly for solar re-  | spaceborne experiments   | gensis of bone including ossification.          |
|          | Used for OSO-J.                        | opasobonio osponinonio   | UF bone formation                               |
| UF       | OSO-J                                  | OSTA-1 payload   | GS cytogenesis                                  |
|          |  | . ,  | , 6   |
| GS       | artificial satellites                  | SN (OFFICE OF SPACE & TERRESTRIAL APPLICATIONS PAYLOADS)       | . osteogenesis                                  |
|          | . geophysical satellites               | DEF Spaceborne experiments flown aboard                        | RT bone demineralization                        |
|          | OSO                                    |  | bone marrow                                     |
|          | OSO-8                                  | the Space Shuttle STS-2 in 1981 which was                      | bone mineral content                            |
|          | . scientific satellites                | sponsored by the NASA Office of Space &                        | bones   |
|          | astronomical satellites                | Terrestrial Applications from which the acronym                | osteoblasts                                     |
|          | OSO                                    | is derived. Used for Office of Space & Terrestr                | tissues (biology)                               |
|          |  | Applic Payloads.   | lissues (biology)                               |
|          | OSO-8                                  | UF Office of Space & Terrestr Applic                           |   |
|          | observatories                          |  | osteoporosis                                    |
|          | . astronomical observatories           | Payloads   | DEF A medical condition whose chief symp        |
|          | astronomical satellites                | GS payloads  | tom is the loss of internal bone mass.          |
|          | OSO                                    | . Space Shuttle payloads                                       | GS diseases                                     |
|          | OSO-8                                  | OSTA-1 payload   | . osteoporosis                                  |
|          |  | RT space transportation system                                 |   |
|          | solar observatories                    |  | RT bone demineralization                        |
|          | OSO                                    | spaceborne experiments   | bone mineral content                            |
|          | OSO-8                                  | COTA O I   | bones   |
|          | . geophysical observatories            | OSTA-2 payload   | calcium metabolism                              |
|          | OSO                                    | SN (OFFICE OF SPACE & TERRESTRIAL                              | metabolism                                      |
|          |  | ÀPPLICATIONS PAYLOADS)   |   |
|          | OSO-8                                  | UF Office of Space & Terrestr Applic                           | osteoblasts                                     |
|          |  | Payloads   |   |
| OSO-A    |  | GS payloads  | Ostwald coarsening                              |
|          | OSO-1                                  |  | USE Ostwald ripening                            |
| 552      | '                                      | . OSTA-2 payload   |   |
| 080 B    |  | RT space transportation system                                 | Ostwald ringning                                |
| OSO-B    | 000.0                                  | Spacelab   | Ostwald ripening                                |
| USE      | OSO-2                                  | 1 ***  | (added March 1994)                              |
|          |  | OSTA-3 payload   | UF Ostwald coarsening                           |
| oso-c    |  |  | RT coarseness                                   |
| UF       | S-57 satellite                         | SN (OFFICE OF SPACE & TERRESTRIAL                              | crystallization                                 |
| GS       | artificial satellites                  | APPLICATIONS PAYLOADS) DEF Spaceborne systems flown aboard the | grain size                                      |
| 33       |  |  |   |
|          | . geophysical satellites               | Space Shuttle STS-17, sponsored by the NASA                    | microstructure                                  |
|          | OSO                                    | Office of Space & Terrestrial Applications from                | phase transformations                           |

|                           | precipitation (chemistry)                |          | TOPS (spacecraft)                            | from ot                                 | ther values in the distribution that their     |
|---------------------------|--|----------|--|---|--|
|                           | solid solutions                          |          | Venus probes                                 | present                                 | ce cannot be attributed to the random          |
|                           | solidification                           |          | adiation balt                                |   | ation of change causes.                        |
| OT-2                      |  |          | adiation belt particles                      | RI                                      | mathematical models                            |
| USE                       | ESSA 2 satellite                         | GS       | . charged particles                          |   | probability theory statistical analysis        |
| 002                       |  |          | magnetically trapped particles               |   | statistical distributions                      |
| OT-3                      |  |          | radiation belts                              |   | statistical tests                              |
| USE                       | ESSA 1 satellite                         |          | outer radiation belt                         |   |  |
| OTF                       |  |          | . corpuscular radiation                      | output                                  |  |
| USE                       | optical transfer function                |          | radiation belts                              |   | The yield or product of an activity fur-       |
| 002                       | option transfer randion                  |          | outer radiation belt . trapped particles     |   | by man, machine, or system. Used for           |
|                           | ngology                                  |          | magnetically trapped particles               | dummy                                   |  |
| GS                        | medical science                          |          | radiation belts                              | UF                                      | ,  |
| RT                        | . otolaryngology                         |          | outer radiation belt                         | GS                                      | output . cardiac output                        |
| KI                        | ear                                      | RT       | artificial radiation belts                   |   | heart minute volume                            |
| otolith                   | organs                                   |          | inner radiation belt                         |   | stroke volume                                  |
|                           | Structures of the inner ear (utricle and |          | proton belts                                 |   | . laser outputs                                |
|                           | ) which respond to linear acceleration   | c        | ∞ radiation                                  |   | . maser outputs                                |
| and tilti                 | 9  | outer s  | pace treaty                                  | RT «                                    | ∞ capacity                                     |
| GS                        | anatomy                                  | GS       |  |   | catchers                                       |
|                           | . sense organs                           |          | foreign policy                               |   | computer systems performance delivery          |
|                           | ear<br>labyrinth                         |          | international relations                      |   | efflux   |
|                           | otolith organs                           |          | international cooperation                    |   | input  |
|                           | . gravireceptors                         | 5.7      | outer space treaty                           |   | outlets  |
|                           | otolith organs                           | RT       | conventions international law                |   | ∞ performance                                  |
|                           | receptors (physiology)                   |          |  |   | power conditioning                             |
|                           | . gravireceptors                         |          | research and development resource allocation |   | printouts                                      |
|                           | otolith organs                           |          | space law                                    |   | ∞ production                                   |
| RT                        | oculogravic illusions                    |          | space law                                    |   | products                                       |
|                           | Orbiting Frog Otolith                    | outgas   |  |   | readout  |
|                           | semicircular canals                      | DĒF      | The evolution of gas from a material in      |   | supplying                                      |
|                           | vertical perception                      | a vacuu  |  |   | tracking problem transfer functions            |
| otology                   | 1  | RT       | degassing                                    |   | transmission                                   |
|                           | medical science                          |          | desorption                                   |   | yield  |
|                           | . otology                                |          | evolution (liberation)                       |   | ,  |
| RT                        | ear                                      |          | gas evolution purging                        | OV-1 a                                  | ircraft  |
| OTC /F                    | CA)                                      |          | residual gas                                 |   | AO-1 aircraft                                  |
| OTS (E                    |  |          | transpiration                                | -                                       | Grumman OV-1C aircraft                         |
|                           | artificial satellites                    |          | vacuum                                       |   | Mohawk aircraft                                |
| 00                        | . ESA satellites                         |          | vacuum pumps                                 | GS                                      | Grumman aircraft                               |
|                           | . OTS (ESA)                              |          |  |   | . OV-1 aircraft                                |
|                           | ESA spacecraft                           | outlet f |  |   | jet aircraft                                   |
|                           | . ESA satellites                         | GS       | fluid flow                                   |   | . turboprop aircraft                           |
|                           | OTS (ESA)                                | RT       | . outlet flow cascade flow                   |   | OV-1 aircraft                                  |
| RT                        | •  | KI       | channel flow                                 |   | monoplanes . OV-1 aircraft                     |
|                           | European space programs                  | c        | ∞ flow                                       |   | observation aircraft                           |
| Otto cy                   | rele                                     |          | flow characteristics                         |   | . OV-1 aircraft                                |
| GS                        | cycles                                   |          | nozzle flow                                  | RT «                                    | ∞ aircraft                                     |
| 00                        | . thermodynamic cycles                   |          |  |   |  |
|                           | Otto cycle                               | outlets  |  | OV-1 s                                  | atellites                                      |
| RT                        | Rankine cycle                            | GS       | outlets                                      |   | artificial satellites                          |
|                           |  | DT       | vents  |   | . scientific satellites                        |
| OTV                       |  | RT       | apertures                                    |   | OV-1 satellites                                |
| USE                       | orbit transfer vehicles                  |          | cavities<br>∞ discharge                      | RT                                      | gravity gradient satellites                    |
| outoro                    | 20                                       |          | doors  |   | spin stabilization                             |
| outcro <sub>l</sub><br>RT | folds (geology)                          |          | ducts  |   |  |
| 13.1                      | formations                               |          | egress                                       |   | atellites                                      |
|                           | geology                                  |          | exhaust nozzles                              | GS                                      | artificial satellites                          |
|                           | <u> </u>                                 |          | exhaust systems                              |   | . scientific satellites                        |
|                           | Banks (NC)                               |          | gates (openings)                             | DT                                      | OV-2 satellites                                |
| GS                        | landforms                                | c        | ∞ nozzles                                    | KI                                      | gravity gradient satellites spin stabilization |
|                           | . barriers (landforms)                   |          | openings                                     |   | Spiri Stabilization                            |
| БТ                        | Outer Banks (NC)                         |          | output                                       |   |  |
| RI                        | Atlantic Ocean islands                   |          | pipe nozzles<br>plugs                        |   | atellites                                      |
|                           | North Carolina                           |          | ports (openings)                             | GS                                      | artificial satellites . scientific satellites  |
|                           | North Carolina                           | c        | ∞ terminals                                  |   | OV-3 satellites                                |
| outer p                   | anet missions                            |          |  | RT                                      | gravity gradient satellites                    |
|                           | Grand Tours                              |          | (geology)                                    | • | spin stabilization                             |
|                           |  | USE      | estuaries                                    |   | •  |
|                           | lanet spacecraft                         |          | (lawattawas)                                 | OV-4 s                                  | atellites                                      |
| USE                       | outer planets explorers                  |          | s (landforms)                                | GS                                      |  |
| C116                      | lanate avalarare                         |          | Areas or groups of rocks surrounded          |   | . scientific satellites                        |
| outer p                   | lanets explorers outer planet spacecraft | by rock  | s of older age. Used for klippen.  klippen   |   | OV-4 satellites                                |
| UF                        | planetary explorer                       | GS       |  | RT                                      | gravity gradient satellites                    |
| RT                        | Delta launch vehicle                     | 00       | . outliers (landforms)                       |   | spin stabilization                             |
| 13.1                      | Explorer satellites                      | RT       | formations                                   |   |  |
|                           | flyby missions                           |          | rocks  | OV-5 s                                  | atellites                                      |
|                           | Grand Tours                              |          | soil erosion                                 |   | artificial satellites                          |
|                           | interplanetary flight                    |          |  |   | . scientific satellites                        |
|                           | Mars probes                              |          | s (statistics)                               |   | OV-5 satellites                                |
| c                         | ∘ spacecraft                             | DEF      | In sets of data values so far removed        | RT                                      | gravity gradient satellites                    |

spin stabilization moving target indicators combustion chemistry optical radar corrosion OV-10 aircraft radar detection degradation UF NA-300 aircraft radar range dehydrogenation GS attack aircraft dopa . COIN aircraft electron transfer overtones OV-10 aircraft USE harmonics epoxidation jet aircraft erosive burning . turboprop aircraft overvoltage fuel combustion OV-10 aircraft circuit protection hot corrosion monoplanes decomposition hydrocarbon combustion OV-10 aircraft electric potential metal combustion North American aircraft Geiger counters oxidizers . OV-10 aircraft open circuit voltage oxygenation observation aircraft polarization (charge separation) passivity OV-10 aircraft reduction (chemistry) RT ∞ aircraft roasting oxalates thermal resistance oxalates ovaries GS turbulent combustion . cobalt oxalates GS anatomy . genitourinary system RT oxalic acid oxidation resistance . . reproductive systems ∞ oxygen compounds corrosion resistance ... sex glands . oxidation resistance oxalic acid . . . . gonads RT passivity GS acids . . . . . ovaries ∞ resistance . glands (anatomy) . carboxylic acids rusting . . endocrine glands . oxalic acid siliconizing . . . gonads organic compounds thermal resistance . . . . ovaries . carboxylic acids . . sex glands . oxalic acid oxidation-reduction reactions oxalates . . . gonads RT DEF An oxidizing chemical change, where ... ovaries an element's positive valence is increased (elecoxamic acids tron loss), accompanied by a simultaneous re-RT eggs menstruation GS acids duction of an associated element (electron . carboxylic acids gain). . oxamic acids chemical reactions GS ovens nitrogen compounds oxidation-reduction reactions heating equipment GS . amides ovens electrochemistry baking . oxamic acids RT reduction (chemistry) organic compounds dry heat . carboxylic acids oxide dispersion strengthening furnaces .. oxamic acids (added February 1994) waste energy utilization dispersion strengthening oxide dispersion strengthening overcast USE cloud cover Compounds that contain a fivealloys membered heterocyclic ring containing one nihardening (materials) overcompression trogen and one oxygen atom. heat resistant alloys organic compounds USE overconsolidation . cyclic compounds oxide films overconsolidation . . heterocyclic compounds RT cathodic coatings overcompression . . . azoles ∞ films consolidation RT . . . . oxazole metal oxides foundations metal surfaces oxetane polymers surface layers (added August 1994) Overhauser effect thin films DEF In atomic physics, a radio frequency alkenes binders (materials) field applied to a substance in an external magoxides netic field, whose nuclei have spin 1/2 and which has unpaired electrons at the electron spin carbonyl compounds chalcogenides monomers . oxides resonance frequency. This results in polarization . . alkoxides photochemical reactions of the nuclei as great as if the nuclei had the . . anhydrides ∞ polymers ... peroxides much larger electron magnetic moment. propellants RT ∞ effects . inorganic peroxides magnetic resonance oxidase . hydrogen peroxide nuclear spin GS acids . . . . organic peroxides ∞ polarization oxidase . . . . potassium peroxides resonance biopolymers . sodium peroxides . proteins .. boron oxides overpressure . enzymes . . brucite DEF (1) The pressure resulting from the . . oxidase . . carbon monoxide blast wave of an explosion. It is referred to as organic compounds . . carbon suboxides positive when it exceeds atmospheric pressure . proteins . . chlorine oxides and negative during the passage of the wave . . dioxides . . enzymes when resulting pressures are less than atmo-... carbon dioxide . oxidase spheric pressure. (2) The transient pressure, dehydrogenases RT flint usually expressed in pounds per square inch, ... hydrogen peroxide exceeding existing atmospheric pressure mani-. . . silicon dioxide fested in the blast wave from an explosion. A reaction in which electrons are re-. . . . quartz During some period of the passage of the wave moved from a reactant. Sometimes, more spe-. . . . . coesite past a point, the overpressure is negative. cifically the combination of a reactant with oxy-.... stishovite GS pressure . . . sulfur dioxides overpressure chemical reactions . . germanium oxides . oxidation blast loads . . heavy water dynamic pressure . . electrochemical oxidation . . indium oxides photooxidation . . metal oxides over-the-horizon radar . . rusting ... alkaline earth oxides association reactions . . . . barium oxides GS radar charring chemical attack . . . . beryllium oxides . search radar

combustion

. . . . . alexandrite . . . . calcium oxides

RT

. over-the-horizon radar

early warning systems

|          | akermanite                              |          | . high energy oxidizers   |                | oxygen 18                                  |
|----------|---|----------|---------------------------|----------------|--|
|          | magnesium oxides                        |          | . liquid oxidizers        |                | . oxygen                                   |
|          | akermanite                              |          | . liquid oxygen           |                | oxygen isotopes                            |
|          | periclase                               |          | . photochemical oxidants  |                | oxygen 18                                  |
|          | aluminum oxides                         |          | . rocket oxidizers FLOX   |                | gases                                      |
|          | alexandrite sapphire                    |          | TAGN                      |                | . oxygen                                   |
|          | bismuth oxides                          | PT ~     | agents                    |                | oxygen isotopes oxygen 18                  |
|          | cerium oxides                           | 1(1 %    | air pollution             |                | Oxygen 10                                  |
|          | cesium oxides                           |          | fluorine                  | oxygen         | afterglow                                  |
|          | chromium oxides                         |          | fuels                     | GS             | afterglows                                 |
|          | cobalt oxides                           |          | nitramine propellants     |                | . oxygen afterglow                         |
|          | copper oxides                           |          | oxidation                 |                |  |
|          | gallium oxides                          | _        |                           |                | analyzers                                  |
|          | hafnium oxides                          | oximetr  | -                         | UF             | oxygen detectors                           |
|          | iron oxides                             | RT       | biochemical oxygen demand | GS             | measuring instruments                      |
|          | hematite                                |          | blood                     | RT             | . <b>oxygen analyzers</b><br>gas analysis  |
|          | ilmenite                                |          | hyperoxia                 | KI             | gas allalysis                              |
|          | magnetite                               |          | hypoxia                   | oxygen         | atoms                                      |
|          | lanthanum oxides lead oxides            |          | oxygen consumption        |                | atoms                                      |
|          | lithium oxides                          | oxosilan | es                        |                | . oxygen atoms                             |
|          | manganese oxides                        | USE      | polysilanes               | RT             | oxygen                                     |
|          | Hopcalite (trademark)                   |          |                           |                |  |
|          | mercury oxides                          | oxyacet  | ylene                     |                | breathing                                  |
|          | mixed oxides                            | GS       | organic compounds         | RT ∝           | ∘ breathing                                |
|          | BSCCO superconductors                   |          | . hydrocarbons            |                |  |
|          | YBCO superconductors                    |          | aliphatic hydrocarbons    | ∞ oxygen<br>SN | COMPOUNDS  (USE OF A MORE SPECIFIC TERM IS |
|          | molybdenum oxides                       |          | alkynes                   | SIN            | RECOMMENDEDCONSULT THE TERMS               |
|          | nickel oxides                           | DT       | oxyacetylene              | _              | LISTED BELOW)                              |
|          | niobium oxides                          | RT       | acetylene                 | RT             | acids                                      |
|          | platinum oxides                         |          | detonable gas mixtures    |                | aluminates                                 |
|          | plutonium oxides                        | ~        | oxygen compounds          |                | arsenates                                  |
|          | potassium oxides                        | oxyalkyl | ation                     |                | borates                                    |
|          | scandium oxides                         |          | alkylation                |                | bromates                                   |
|          | silver oxides                           | 002      | unylution                 |                | carbohydrates<br>carbon suboxides          |
|          | sodium peroxides strontium oxides       | oxyfluo  | rides                     |                | carbonates                                 |
|          | tantalum oxides                         |          | halogen compounds         | ~              | chemical compounds                         |
|          | thorium oxides                          |          | . fluorine compounds      | ~              | chlorates                                  |
|          | tin oxides                              |          | fluorides                 |                | chromates                                  |
|          | titanium oxides                         |          | oxyfluorides              |                | germanium oxides                           |
|          | anatase                                 |          | . halides                 |                | niobates                                   |
|          | ilmenite                                |          | fluorides                 |                | oxalates                                   |
|          | rutile                                  |          | oxyfluorides              |                | oxides                                     |
|          | tungsten oxides                         | RT≪      | oxygen compounds          |                | oxyacetylene                               |
|          | scheelite                               |          |                           |                | oxyfluorides                               |
|          | uranium oxides                          | oxygen   | ah amiaal alamanta        |                | oxygen fluorides                           |
|          | vanadium oxides                         | GS       | chemical elements         |                | ozonates                                   |
|          | yttrium oxides                          |          | . oxygen liquid oxygen    |                | ozone fluoride                             |
|          | zinc oxides                             |          | oxygen isotopes           |                | ozonides                                   |
|          | zirconium oxides                        |          | oxygen 130topes           |                | stannates                                  |
|          | yttria-stabilized zirconia              |          | oxygen 18                 |                | tion                                       |
|          | nitrogen oxides                         |          | gases                     |                | consumption                                |
|          | nitric oxide                            |          | . oxygen                  | GS             | consumption . oxygen consumption           |
|          | nitrogen dioxide                        |          | liquid oxygen             | RT             | biochemical oxygen demand                  |
|          | nitrogen tetroxide nitrous oxides       |          | oxygen isotopes           | IXI            | hyperoxia                                  |
|          | phosphorus oxides                       |          | oxygen 17                 |                | hypoxia                                    |
|          | pyroxenes                               |          | oxygen 18                 |                | metabolism                                 |
|          | enstatite                               | RT       | Chlorella                 |                | oximetry                                   |
|          | selenium oxides                         |          | high pressure oxygen      |                |  |
|          | silicon oxides                          |          | oxygen atoms              | oxygen         | deficiency                                 |
|          | muscovite                               |          | oxygen ions               | USE            | hypoxia                                    |
|          | nephelite                               |          | oxygen plasma             |                |  |
|          | silicon dioxide                         |          | ozone reaction bonding    |                | detectors                                  |
|          | quartz                                  |          | Schumann-Runge bands      | USE            | oxygen analyzers                           |
|          | coesite                                 |          | sialon                    | ovvaon         | fluorides                                  |
|          | stishovite                              |          | olalon                    |                | halogen compounds                          |
|          | spodumene                               | oxygen   | 17                        | 00             | . fluorine compounds                       |
|          | sulfur oxides<br>sulfur dioxides        | DEF      | An isotope of oxygen.     |                | fluorides                                  |
| RT       | anodic coatings                         | GS       | chemical elements         |                | oxygen fluorides                           |
| KI       | cathodic coatings                       |          | . nuclides                |                | . halides                                  |
|          | ethylene oxide                          |          | isotopes                  |                | fluorides                                  |
|          | euxenite                                |          | oxygen isotopes           |                | oxygen fluorides                           |
|          | insulation                              |          | oxygen 17                 | RT ∝           | oxygen compounds                           |
|          | metal coatings                          |          | . oxygen                  |                | -  |
|          | niobates                                |          | oxygen isotopes           | oxygen         |  |
|          | nonflammable materials                  |          | oxygen 17                 | GS             | ions                                       |
| ~        | oxygen compounds                        |          | gases                     | 5-             | oxygen ions                                |
|          | solid oxide fuel cells                  |          | . oxygen                  | RT             | free radicals                              |
|          | water                                   |          | oxygen isotopes           |                | negative ions                              |
|          |   |          | oxygen 17                 |                | oxygen                                     |
| oxidizer | rs                                      | oxygen   | 18                        | OXVOEN         | isotopes                                   |
| DEF      | Specifically, substances (not neces-    | GS       | chemical elements         | GS             | chemical elements                          |
|          | ontaining oxygen) that support the com- | -        | . nuclides                |                | . nuclides                                 |
|          | of a fuel or propellant.                |          | isotopes                  |                | isotopes                                   |
| GS       | oxidizers                               |          | oxygen isotopes           |                | oxygen isotopes                            |

# oxygen masks

. . . . oxygen 17 .... oxygen 18 . oxygen .. oxygen isotopes . . . oxygen 17 . . . oxygen 18 gases . oxygen .. oxygen isotopes ... oxygen 17 ... oxygen 18 oxygen masks GS breathing apparatus . oxygen masks masks . oxygen masks oxygen supply equipment oxygen masks high altitude breathing life support systems portable life support systems oxygen metabolism metabolism oxygen metabolism hydrogen metabolism respiration oxygen plasma GS particles . charged particles . . energetic particles . . . plasmas (physics) .... oxygen plasma . corpuscular radiation . . energetic particles . . . plasmas (physics) ... oxygen plasma argon plasma helium plasma hydrogen plasma oxygen oxygen production closed ecological systems gas exchange in situ resource utilization oxygen recombination GS chemical reactions . atomic recombination . . oxygen recombination recombination reactions . atomic recombination . oxygen recombination RT ionization . regulators . oxygen regulators flow regulators pressure regulators

#### oxygen regulators

GS control equipment

### oxygen spectra

GS spectra

. oxygen spectra

airglow Herzberg bands molecular spectra solar spectra

# oxygen supply equipment

oxvaen systems GS

oxygen supply equipment

. oxygen masks AEPS

air conditioning equipment breathing apparatus cabin atmospheres compressed air controlled atmospheres emergency life sustaining systems life support systems

pressurized cabins survival equipment

oxygen systems

USE oxygen supply equipment

# oxygen tension

GS pressure

. partial pressure

oxygen tension

. . . hypoxemia

oxygen toxicity ÚŠE hyperoxia

#### oxygenation

chemical reactions oxygenation aeration dissolved gases oxidation

# oxygen-hydrocarbon rocket engines

(added May 1989)

liquid oxygen hydrocarbon rocket engines LOX-hydrocarbon rocket engines

engines

. rocket engines

. . liquid propellant rocket engines ... oxygen-hydrocarbon rocket

engines booster rocket engines

liquid oxygen reusable rocket engines spacecraft propulsion

GS halogen compounds

. halides

. . oxyhalides

# oxyhemoglobin

GS biopolymers

. proteins

.. hemoglobin . . oxyhemoglobin

organic compounds . proteins

. . hemoglobin . . oxyhemoglobin

organometallic compounds

. hemoglobin

. oxyhemoglobin

RT erythrocytes

#### oxynitrides

DEF Base for a broad field of nitrogen ceramics utilizing silicon, aluminum, and other elements to produce high temperature refractory materials.

GS nitrogen compounds

. nitrides

. oxynitrides

RT ∞ chemical compounds

∞ Group 5A compounds

#### ozonates

RT ∞ oxygen compounds ozone

A very active form of oxygen that may be produced by the corona, arcing, or ultra-violet rays

GS gases

ozone

Halogen Occultation Experiment

oxygen ozonates ozone fluoride ozonides ozonometry

photochemical oxidants quasi-biennial oscillation SAGE satellite

Solar Mesosphere Explorer volatile organic compounds

#### ozone depletion

(added December 1991) ozone holes GS depletion

ozone depletion air pollution

Antarctic regions Arctic regions atmospheric composition chlorofluorocarbons chlorofluoromethane

ozonometry ozonosphere

Total Ozone Mapping Spectrometer

#### ozone fluoride

GS halogen compounds

fluorine compounds . . fluorides

... ozone fluoride

. halides . . fluorides

. . ozone fluoride

RT ∞ oxygen compounds

ozone holes

USE ozone depletion

ozone layer

USE ozonosphere

### ozonesondes

(added July 2005)

DEF Instruments which measure atmospheric ozone profiles.

GS measuring instruments

. meteorological instruments

. . ozonesondes

. sondes

. ozonesondes

RT air sampling balloon sounding balloon-borne instruments ozonometry

#### ozonides

RT ∞ oxygen compounds ozone

# ozonometry

GS chemical tests

. chemical analysis . . gas analysis

. . ozonometry

ozone

ozone depletion ozonesondes

Total Ozone Mapping Spectrometer

ozonosphere
DEF The general stratum of the upper atmosphere in which there is an appreciable ozone concentration and in which ozone plays an important part in the radiation balance of the atmosphere. This region lies roughly between 10 and 50 kilometers, with maximum ozone concentration at about 20 to 25 kilometers. Used for ozone layer.

HE ozone layer

Earth atmosphere . middle atmosphere

. . stratosphere

. ozonosphere

chemosphere chlorofluorocarbons homosphere ozone depletion Umkehr effect upper atmosphere

| P band   | P-166 aircraft  | pulse code modulation   |
|--|---|---|
| SN (225 TO 390 MHZ)                              | RT ∞ aircraft   | DA 24 Company simpleff  |
| GS frequencies . radio frequencies               |   | PA-34 Seneca aircraft UF Seneca aircraft  |
| microwave frequencies                            | P-308 aircraft  | GS light aircraft   |
| P band   | UF ME P-308 aircraft  | . Piper aircraft  |
| ultrahigh frequencies                            | Messerschmitt ME P-308 aircraft GS attack aircraft          | PA-34 Seneca aircraft   |
| P band   | . P-308 aircraft  | RT ∞ aircraft   |
| very high frequencies                            | jet aircraft  | ATLIT project   |
| P band   | . P-308 aircraft  | GAW-1 airfoil   |
| P waves  | monoplanes  | General Dynamics aircraft   |
| GS elastic waves                                 | P-308 aircraft  | PACE  |
| . P waves  | RT ∞ aircraft   | USE Physics and Chemistry Experiment  |
| RT compressible fluids                           |   | in Space  |
| compression waves                                | P-531 helicopter  | Builds to Late  |
| crustal fractures                                | UF Scout helicopter   | Pacific islands GS landforms  |
| dilatational waves<br>S waves                    | Westland P-531 helicopter GS V/STOL aircraft                | . islands   |
| seismic waves                                    | . rotary wing aircraft                                      | Pacific islands   |
| surface waves                                    | helicopters   | Guam  |
|  | military helicopters  | Japan   |
| P-1 engine                                       | P-531 helicopter  | Johnston Island   |
| GS engines                                       | Westland aircraft   | Kurile Islands  |
| . rocket engines                                 | . <b>P-531 helicopter</b> RT antisubmarine warfare aircraft | New Guinea (island)<br>New Zealand  |
| booster rocket engines<br><b>P-1 engine</b>      | passenger aircraft  | Philippines   |
| solid propellant rocket engines                  | passenger ancrait   | Samoa   |
| P-1 engine                                       | P-1127 aircraft   | Odinod  |
| ····· · · · · · · · · · · · · · · · ·            | UF Hawker P-1127 aircraft                                   | Pacific Northwest (US)  |
| P-3 aircraft                                     | Kestrel aircraft  | GS regions  |
| UF Orion aircraft                                | VZ-12 aircraft  | Pacific Northwest (US)  |
| P3V aircraft                                     | XV-6A aircraft  | RT Canada<br>United States  |
| GS antisubmarine warfare aircraft . P-3 aircraft | GS attack aircraft  | Offiled States  |
| jet aircraft                                     | . fighter aircraft  | Pacific Ocean   |
| . turboprop aircraft                             | P-1127 aircraft   | GS oceans   |
| P-3 aircraft                                     | Hawker Siddeley aircraft<br>. <b>P-1127 aircraft</b>        | . Pacific Ocean   |
| Lockheed aircraft                                | jet aircraft  | RT Bering Sea   |
| . P-3 aircraft                                   | . turbofan aircraft   | coastal ranges (CA)   |
| monoplanes                                       | P-1127 aircraft   | el Nino   |
| . <b>P-3 aircraft</b><br>RT ∞ aircraft           | monoplanes  | Gulf of Alaska<br>Gulf of California (Mexico)   |
| turboprop engines                                | . P-1127 aircraft   | Indonesia   |
| turboprop engines                                | single engine aircraft                                      | mid-ocean ridges  |
| P3V aircraft                                     | . P-1127 aircraft   | Monterey Bay (CA)   |
| USE P-3 aircraft                                 | V/STOL aircraft<br>. <b>P-1127 aircraft</b>                 | San Francisco Bay (CA)  |
|  | RT ∞ aircraft   | Sea of Okhotsk  |
| P-51 aircraft                                    | Bristol-Siddeley BS 53 engine                               | Southern California   |
| UF Mustang aircraft                              | Harrier aircraft  | packages  |
| GS attack aircraft . fighter aircraft            | turbofan engines  | DEF Any assemblies or apparatus, com-   |
| P-51 aircraft                                    |   | plete in themselves or practically so, identifiable   |
| monoplanes                                       | P-1154 aircraft   | as units and readily available for use or installa-   |
| P-51 aircraft                                    | UF Hawker P-1154 aircraft                                   | tion.   |
| North American aircraft                          | GS attack aircraft  | GS <b>packages</b>  |
| . P-51 aircraft                                  | . fighter aircraft  | . instrument packages   |
| single engine aircraft                           | <b>P-1154 aircraft</b><br>Hawker Siddeley aircraft          | Apollo Lunar Surface Experiments  |
| . P-51 aircraft                                  | . P-1154 aircraft   | Package<br>EASEP  |
| RT ∞ aircraft                                    | jet aircraft  | EREP  |
| P78-2 satellite                                  | . turbofan aircraft   | RT bags   |
| USE SCATHA satellite                             | P-1154 aircraft   | boxes (containers)  |
|  | monoplanes  | bundles   |
| P-84 aircraft                                    | P-1154 aircraft   | cartridges  |
| USE jet provost aircraft                         | single engine aircraft                                      | cases (containers)  |
| P-160 aircraft                                   | . P-1154 aircraft   | ∞ containers  |
| UF ME P-160 aircraft                             | supersonic aircraft<br>. <b>P-1154 aircraft</b>             | ∞ instruments   |
| Messerschmitt ME P-160 aircraft                  | V/STOL aircraft   | packaging   |
| GS commercial aircraft                           | . P-1154 aircraft   | packaging   |
| . P-160 aircraft                                 | RT ∞ aircraft   | DEF (1) The technique of preparing goods  |
| passenger aircraft                               | turbofan engines  | for distribution; (2) The design criteria, pro-   |
| P-160 aircraft                                   |   | cesses, and procedures used to protect materi-  |
| transport aircraft                               | P.A.C.M. telemetry  | als from deterioration and damage from the time   |
| . cargo aircraft<br><b>P-160 aircraft</b>        | SN (PULSE AMPLITUDE CODE                                    | manufacturing is completed until use or dis-<br>posal; (3) The processses and procedures used |
| RT ∞ aircraft                                    | MODULATION) GS telecommunication                            | to protect an item in a unit package.   |
| ICI ∞ aliciait                                   | . telemetry   | GS packaging  |
| P-166 aircraft                                   | P.A.C.M. telemetry  | electronic packaging  |
| UF Piaggio P-166 aircraft                        | transmission  | RT ∞ containers   |
| GS monoplanes                                    | . signal transmission                                       | corrosion prevention  |
| P-166 aircraft                                   | telemetry   | encapsulating   |
| passenger aircraft                               | P.A.C.M. telemetry  | enclosure   |
| . P-166 aircraft                                 | RT amplitude modulation                                     | hauling   |
| Piaggio aircraft<br>. <b>P-166 aircraft</b>      | communication equipment differential pulse code modulation  | hoppers<br>inhibitors   |
| transport aircraft                               | modulation  | marking   |
| . cargo aircraft                                 | pulse amplitude modulation                                  | materials handling  |
|  | 1   |   |

packages void ratio pigments ∞ packing primers (coatings) packings (seals) preserving protective coatings sealers GS seals (stoppers) rubber coatings packings (seals) spiral wrapping sealers bearings ∞ storage sprayed coatings transportation glands (seals) turpentine vermiculite labyrinth seals varnishes weatherproofing ∞ packing pumps pair production ∞ wrap sealers GS particle production sealing pair production packet switching shafts (machine elements) electromagnetic absorption Switching circuit system for multiple DEF electron emission access time division data transmission. electron photon cascades GS switching ∞ pad electron-positron pairs packet switching (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN emission asynchronous transfer mode high energy interactions beam switching LISTED BELOW) nuclear reactions RT cushions communication networks photoproduction foundations data transmission positron annihilation launching pads interruption positrons microwave switching paddles multiple access **Pakistan** folding structures network control GS nations mixers packet transmission Pakistan solar generators packets (communication) Asia turbomachine blades protocol (computers) Bangladesh radio transmission Himalavas Pade approximation sequencing Pakistan space program GS analysis (mathematics) signal transmission . calculus switching circuits Pakistan space program . . series (mathematics) switching theory (added November 1989) Pade approximation telecommunication programs . numerical analysis time division multiple access . space programs . . approximation Pakistan space program ... Pade approximation Pakistan packet transmission . real variables Transmission of bursts of digital data. . . series (mathematics) Palapa 2 satellite telecommunication ... Pade approximation Palapa B satellite . packet transmission artificial satellites . Aloha system **PAGEOS** satellite . communication satellites GS artificial satellites transmission . . Palapa satellites . signal transmission . geodetic satellites . . . Palapa 2 satellite
Indonesian space program . . data transmission . PAGEOS satellite ... packet transmission . passive satellites international cooperation . . . Aloha system . PAGEOS satellite asynchronous transfer mode Explorer 29 satellite Palapa B satellite
USE Palapa 2 satellite automatic repeat request Explorer 36 satellite carrier sense multiple access GEOS 1 satellite channel capacity GEOS 2 satellite Palapa satellites message processing GEOS 3 satellite DEF Satellites launched by the US for the packet switching Indonesian government for their domestic compackets (communication) PAH munications network. satellite communication USE polycyclic aromatic hydrocarbons GS artificial satellites spacecraft communication . communication satellites transmission efficiency pain . Palapa satellites GS perception . Palapa 2 satellite . sensory perception packets (communication) Indonesian space program . pain Digital data messages which are alinternational cooperation analgesia most always preceded by headers (containing address information and other control characpaleobiology pain sensitivity ters) and followed by control characters which The study of life and organisms that DEF GS perception signify the end of a message existed in the geologic past. . sensory perception UF bursts (communication) RT archaebacteria pain sensitivity RT Aloha system sensitivity  $\infty$  biology communication networks . pain sensitivity Cretaceous-Tertiary boundary data transmission fossils packet switching geochemistry paint removal packet transmission geochronology (added August 1995) transmission efficiency paint stripping paleontology wave packets GS removal wide area networks paint removal paleoclimatology DEF The study of climates in the geologic RT abrasives past, involving fossil, glacial, isotropic, or other ∞ packing cleaning (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN solvents GS climatology ∞ stripping . paleoclimatology surface treatment packaging climate packing density climate change paint stripping packings (seals) USE paint removal paleontology sealing primitive Earth atmosphere paints packing density GS coatings paleomagnetism density (number/volume) . paints archaeomagnetism GS

. pressure sensitive paints

fillers

finishes

metal coatings

RT

. temperature sensitive paints

magnetic fields

RT archaeology

. paleomagnetism

magnetic properties

paleomagnetism

packing density

Bravais crystals

crystal structure

crystals

∞ packing

|          | cones (volcanoes)                                | DT            | palmitic acid   |          | vortex lattice method  |
|----------|--|---------------|---|----------|--|
|          | continental drift geology                        | RT            | fats  | panels   |  |
|          | geomagnetism                                     | Palo Ve       | erde Valley (CA)  | SN       | (EXCLUDES GROUPS OF PEOPLE)  |
|          | geophysics                                       |               | valleys   | GS       | panels   |
|          | magnetostratigraphy                              |               | . Palo Verde Valley (CA)  |          | . curved panels  |
|          | Mars volcanoes                                   | RT            | California  |          | . rectangular panels . wing panels   |
|          | remanence<br>rocks                               |               | deserts   | RT       | baffles  |
|          | volcanoes  | PAM (n        | nodulation)   |          | ceilings (architecture)  |
|          | volcanology                                      | •             | pulse amplitude modulation  | o        | ∞ construction materials   |
|          |  |               |   |          | dividers   |
| paleont  |  | pampa         | s A vast treeless grassy plain of temper-   |          | flat plates  |
| RT       | archaebacteria<br>Cambrian Period                |               | ons, especially as used in Argentina and  |          | ∞ plates<br>∞ sheets   |
|          | Cenozoic Era                                     |               | nt parts of Uruguay. It is comparable to  |          | shielding  |
|          | Cretaceous Period                                | the prai      | ries of North America, the steppes of the   |          | thin plates  |
|          | Cretaceous-Tertiary boundary                     |               | , and the veld of South Africa.   |          | walls  |
|          | formations                                       | GS            | land  | panic    |  |
|          | fossils<br>geochemistry                          |               | . plains<br>pampas  | RT       | emotional factors  |
|          | geochronology                                    |               | landforms   |          | emotions   |
|          | geological surveys                               |               | . plains  |          | fear   |
|          | geology  |               | pampas  |          | human behavior   |
|          | histories  | DANI (n       | olygon (lonitrila)  | nanora   | mic cameras  |
|          | Mesozoic Era                                     | USE           | olyacrylonitrile) polyacrylonitrile   | GS       | optical equipment  |
|          | paleobiology<br>paleoclimatology                 | 002           | polydolylollillillo   |          | . cameras  |
|          | Paleozoic Era                                    | Panam         |   |          | panoramic cameras  |
|          | Precambrian period                               | GS            | nations   |          | photographic equipment   |
|          | protobiology                                     | DT            | . Panama  |          | . cameras  |
|          | stratigraphy                                     | RT            | canals<br>Central America   | RT       | panoramic cameras camera shutters  |
|          | Tertiary Period                                  |               | Gential America   | 17.1     | focusing   |
| Paleozo  | oic Era  | Panam         | a Canal Zone  |          | lenses   |
|          | ed June 1989)                                    | GS            | regions   |          | photography  |
|          | An era of geologic time, from the end            | DT            | . Panama Canal Zone   |          | wide angle lenses  |
|          | Precambrian Period to the beginning of           | KI            | Caribbean Sea<br>Central America  | nanora   | mic scanning   |
|          | sozoic Era, or about 570 to about 225 rears ago. |               | United States   |          | scanning   |
|          | Paleozoic Era                                    |               |   |          | . panoramic scanning   |
|          | . Cambrian Period                                | pancre        |   | RT       | conical scanning   |
| RT       | geochronology                                    | GS            | anatomy   |          | frequency scanning   |
|          | Mesozoic Era                                     |               | . digestive system pancreas   |          | multispectral band scanners radar scanning                                       |
|          | paleontology Procembrian period                  |               | glands (anatomy)  |          | scanners   |
|          | Precambrian period                               |               | endocrine glands  |          | searching  |
| palladiu | ım   |               | pancreas  |          | surveillance   |
| GS       | chemical elements                                | RT            | diabetes mellitus   |          |  |
|          | palladium  |               | gastrointestinal system   | panspe   |  |
|          | metals   |               | trypsin   |          | The theory that holds that reproductive of living organisms exist throughout the |
|          | . transition metals palladium                    | Pandor        | ra  |          | e and develop wherever the environment   |
| RT       | palladium isotopes                               | (ada          | led July 1995)  | is favor |  |
|          |  |               | A natural satellite of Saturn, orbiting at  | RT       | abiogenesis  |
|          | ım alloys  |               | distance of 141,700 kilometers.   |          | aerospace environments   |
| GS       | alloys . palladium alloys                        | GS            | celestial bodies . natural satellites   |          | bacteria<br>biological evolution   |
|          | . pallaululli alloys                             |               | Saturn satellites   |          | exobiology   |
| palladiu | ım compounds                                     |               | Pandora   |          | extraterrestrial life  |
| RT ∘     | chemical compounds                               | RT            | Saturn (planet)   |          | fungi  |
|          | metals   |               | 1   | DANT     |  |
|          | transition metals                                | panel f<br>GS | vibration   |          | orogram The passive nosetip technology   |
| palladiu | ım isotopes                                      | 00            | . structural vibration  |          | program is an investigation of flow phe-   |
| GS       | chemical elements                                |               | flutter   |          | a over reentry vehicle nosetips by the Air                                       |
|          | . nuclides                                       |               | panel flutter   |          | Used for ablative nosetips and passive   |
|          | isotopes   |               | self induced vibration  |          | technology.  |
| RT       | palladium isotopes palladium                     | RT            | panel flutter aerodynamic noise   | UF       | ablated nosetips<br>passive nosetip technology                                   |
| KI       | pallaulum  | KI            | aeroelasticity  | GS       | programs   |
| Palmar   | sweat index                                      |               | bending vibration   |          | . PANT program   |
| RT       | perspiration                                     |               | · ·   |          |  |
|          | stress (physiology)                              |               | nethod (fluid dynamics)   |          | chondrites   |
|          | stress (psychology)                              |               | Technique for analyzing and predicting perties and characteristics of fluid flow; | GS       | celestial bodies . meteorites  |
| Palmor   | en-Miner rule                                    |               | nes called the finite element method.   |          | stony meteorites   |
| UF       | Miner rule                                       | GS            | procedures  |          | chondrites   |
| GS       | rules  |               | panel method (fluid dynamics)   |          | Pantar chondrites  |
|          | . Palmgren-Miner rule                            | RT            | Bernoulli theorem   | D "      |  |
| RT       | fatigue life                                     |               | boundary layers   |          | r aircraft   |
| palmitio | : acid   |               | computational fluid dynamics finite element method                                | USE      | F-9 aircraft   |
| GS       | acids  |               | ∞ flow  | papain   |  |
|          | . carboxylic acids                               |               | flow theory   | GS       | biopolymers  |
|          | fatty acids                                      |               | fluid dynamics  |          | . proteins   |
|          | palmitic acid                                    |               | flux vector splitting   |          | enzymes  |
|          | organic compounds . carboxylic acids             |               | gas-solid interactions<br>∞ methodology   |          | <b>papain</b> organic compounds  |
|          | . fatty acids                                    |               | turbulence  |          | . proteins   |
|          | · · · · · ·                                      |               |   |          |  |

. . enzymes . . papain pepsin

#### paper (material)

DEF Felted or matted sheets of cellulose fibers, formed on a fine wire screen from a dilute water suspension, and bonded together as the water is removed and the sheet is dried.

RT boards (paper) Kraft process (woodpulp)

∞ materials organic materials webs (sheets) wood

#### paper chromatography

GS chemical tests

. chemical analysis . . chromatography

... paper chromatography

gas chromatography liquid chromatography

#### papers

papers RT boards (paper) conferences fibers ∞ films laminates

documents

literature Presidential reports

privacy reports ∞ sheets

webs (sheets)

#### papillae

RT protuberances

#### Papua New Guinea

nations GS

Papua New Guinea

RT Asia Australia

New Guinea (island)

# para hydrogen

GS gases

para hydrogen hydrogen

ortho para conversion

# parabolas

Open curves where all points of which are equidistant from a fixed point called the focus, and a straight line. The limiting case occurs when the point is on the line, in which case the parabola becomes a straight line.

GS geometry

. Euclidean geometry

. . analytic geometry

. . . conics

. . . . parabolas

# parabolic antennas

. directional antennas

. . reflector antennas

. . parabolic antennas

antenna design Cassegrain antennas horn antennas microwave antennas radar antennas radar equipment radar reflectors

## parabolic bodies

DEF Surfaces of revolution generated by revolving sections of parabolas about their major axis. Used for paraboloids.

paraboloids

GS symmetrical bodies

. bodies of revolution

. . parabolic bodies

#### parabolic differential equations

GS analysis (mathematics)

. real variables

. . differential equations

... partial differential equations

.... parabolic differential equations

RT ∞ equations

# parabolic flight

ascent trajectories ballistic trajectories climbing flight coasting flight descent trajectories ∞ flight midcourse trajectories missile trajectories suborbital flight trajectories

weightlessness

parabolic reflectors

DEF Reflecting surfaces having the cross section along the axis in the shape of a parabola. Parallel rays striking the reflector are brought to a focus at a point, or if the source of the rays is placed at the focus, the reflected rays are parallel. Used for dishes.

weightlessness simulation

UF dishes

GS reflectors

. parabolic reflectors

. paraboloid mirrors microwave antennas radar reflectors reflector antennas Schwarzschild antennas

solar reflectors

parabolic velocity

USE escape velocity

# paraboloid mirrors

GS mirrors

paraboloid mirrors

reflectors

. parabolic reflectors

. paraboloid mirrors reflecting telescopes solar reflectors

paraboloids

RT

USE parabolic bodies

# parachute descent

parachuting UF GS descent

parachute descent

bailout ejection ejection training escape (abandonment) free fall Mars Pathfinder parachutes

### parachute fabrics

fabrics GS

parachute fabrics

Fortisan (trademark)

netting (materials/structures) parachutes

# parachutes

A device used, or intended to be used to retard the fall of a body or object through the

# parachutes

drag chutes

. parafoils

recovery parachutes

. ribbon parachutes

rotochutes

aerodynamic brakes air drop operations

airdrops

ballutes

brakes (for arresting motion)

folding structures parachute descent parachute fabrics paracone parawings towed bodies whirl towers

parachuting

USE parachute descent

# parachuting injury

GS injuries

. parachuting injury

# paracone

DEF A system for recovering men and objects from great distances above the Earth's surface and landing them safely onto the Earth.

RT escape capsules escape systems parachutes

#### paradoxes

GS knowledge

. philosophy

. paradoxes RT ∞ logic relativity

#### paraffins

GS organic compounds

. hydrocarbons

. . aliphatic hydrocarbons

. . . alkanes . . . . paraffins

. . ceresin

RT hydrocarbon fuels kerosene shale oil

#### parafoils

(added July 1994)

GS parachutes

parafoils

aerodynamic brakes

airdrops bailout free fall paragliders

# paragliders

GS gliders

paragliders

inflatable gliders folding structures hypersonic gliders parafoils parawings

∞ subsonic aircraft

# **Paraguay**

GS nations Paraguay

RT South America

# parallax

The difference in the apparent direction or position of an object when viewed from different points expressed as an angle.

GS parallax

solar parallax stellar parallax

astrometry companion stars ∞ optics

# parallel computers

GS data processing equipment

. computers

. . digital computers

... parallel computers

. . . massively parallel processors

. . . . Connection Machine . . . . MIMD (computers)

.... SIMD (computers)

RT hypercube multiprocessors nuclear magnetic resonance semiconductor devices paramagnetism parametric diodes parallel flow GS fluid flow paramagnetism GS electronic equipment . parallel flow . diodes magnetic properties GS . . pipe flow paramagnetism . . semiconductor diodes . . three dimensional flow . parametric diodes antiferromagnetism . . . Karman-Bodewadt flow Curie-Weiss law . solid state devices . . secondary flow diamagnetism . . semiconductor devices flow geometry . . parametric diodes paramagnetic resonance flow velocity RT varactor diodes laminar flow paramecia steady flow parametric frequency converters GS animals frequency converters . protozoa parametric frequency converters parallel plates . paramecia RT capacitors RT ∞ converters microorganisms phase modulation ∞ channels . protozoa flat plates up-converters . . paramecia metal plates parametric oscillators ∞ plates parameter identification USE parametric amplifiers thin plates The estimation of the unknown paramwaveguides eters of models of physical plants or processes parametrons from their dynamic response. RT computer storage devices parallel processing (computers) GS estimating parameter identification magnetic cores The concurrent or simultaneous exmagnetic storage ecution of more than one program, or the hanidentifying
. parameter identification oscillators dling of input for more than one operation at the phase lock demodulators same time. parameterization thin films parameter identification complex systems GS data processing parallel processing (computers) paranasal sinuses associative processing (computers) control systems design GS anatomy computational electromagnetics dynamic response . respiratory system concurrent processing estimates . . paranasal sinuses Connection Machine frequency domain analysis distributed memory genetic algorithms . paranasal sinuses hypercube multiprocessors independent variables nose (anatomy) Illiac 3 computer least squares method Illiac 4 computer mathematical models paraplasts interprocessor communication maximum likelihood estimates plasters massively parallel processors observability (systems) . paraplasts MIMD (computers) optimal control resins response time (computers) optimization SIMD (computers) prediction analysis techniques parapsychology sorting algorithms probability theory USE extrasensory perception supercomputers sensitivity analysis systolic arrays parasites statistical analysis transputers GS parasites steepest descent method vector processing (computers) . trypanosome system identification animals systems analysis parallel programming bliaht systems engineering GS computer programming infestation Taguchi methods parallel programming time domain analysis multiprocessing (computers) parasitic antennas pipelining (computers) USE parasitic elements (antennas) parameterization parameterization GS parallel strip lines parasitic diseases parameter identification USE microstrip transmission lines GS diseases algorithms . infectious diseases ∞ applications of mathematics parallelepipeds . parasitic diseases dependent variables GS geometry airborne infection derivation . Euclidean geometry amoeba dimensional analysis . . polyhedrons blight ∞ estimators . . . parallelepipeds rust fungi formalism trypanosome formulations parallelograms mathematical models geometry parasitic elements (antennas) scale effect . Euclidean geometry (added July 1993) semiempirical equations . . polygons parasitic antennas sensitivity analysis . . . tetragons parasitic reflectors system identification . . . . parallelograms passive elements units of measurement . . . . rhomboids antenna components parasitic elements (antennas) parameters paralysis . directors (antenna elements) USE independent variables diseases antennas paralysis . parasitic elements (antennas) parametric amplifiers

injuries

paralysis disabilities tremors

paramagnetic amplifiers USE masers

## paramagnetic resonance

GS resonance

. magnetic resonance

. . paramagnetic resonance
. . . electron paramagnetic resonance

absorption spectra ferromagnetic resonance

reactance amplifiers amplifiers parametric amplifiers

parametric oscillators

GS

lators and reactance amplifiers.

frequency converters

LC circuits

magnetostatic amplifiers microwave amplifiers negative resistance devices

DEF Inverting parametric devices used to

amplify a signal without frequency translation

from input to output. Used for parametric oscil-

power amplifiers

. directors (antenna elements)

antenna design

antenna radiation patterns dipole antennas directional antennas log periodic antennas radio receivers reflectors Yagi antennas

parasitic reflectors

USE parasitic elements (antennas)

# parathyroid gland

GS anatomy

|   | alanda (anatamu)  | 00   | mathematical logic   |  | . cyclotrons  |
|---|---|--|--|--|---|
|   | . glands (anatomy) endocrine glands   | GS   | mathematical logic . algorithms  |  | geocyclotrons   |
|   | parathyroid gland   |  | parsing algorithms   |  | microtrons  |
| RT  | calcium metabolism  | RT   |  |  | Oak Ridge isochronous cyclotron   |
| IXI   | Calcium metabolism  | KI   | •  |  |   |
| parawin   | as  |  | computer techniques  |  | omegatrons  |
| GS  | airfoils  |  | grammars   |  | synchrocyclotrons   |
| 63  | . wings   |  | natural language processing  |  | . electron accelerators betatrons   |
|   | flexible wings  |  | semantics  |  | . ion accelerators  |
|   | parawings   |  | subroutines  |  |   |
| RT  | air drop operations   |  | syntax   |  | . linear accelerators   |
| IXI   | folding structures  | partial  | differential equations   |  | . Nimrod accelerator  |
|   |   | GS   |  |  | . superconducting super collider  |
|   | hang gliders  | GS   | analysis (mathematics) . real variables  |  | . synchrophasotrons   |
|   | parachutes  |  |  | DT   | . Van de Graaff accelerators  |
|   | paragliders   |  | differential equations   | RI≪  | accelerators  |
| narente   | ral functions   |  | partial differential equations   |  | beam splitters  |
| •   | functions   |  | biharmonic equations   |  | electron guns   |
| 1(1 ~   | runctions   |  | Burger equation  |  | elementary particles  |
| parents   |   |  | Cauchy-Riemann equations   |  | ion sources   |
|   | adults  |  | elliptic differential equations  |  | kaon production   |
| 101   | children  |  | Monge-Ampere equation  |  | neutron sources   |
|   | human beings  |  | Euler-Cauchy equations   |  | nuclear particles   |
|   | Human beings  |  | Ffowcs Williams-Hawkings   |  | racetracks (particle accelerators)  |
| parity  |   |  | equation   |  | railgun accelerators  |
| DEF   | A symmetry property of a wave func-   |  | Fokker-Planck equation   |  | SEPAC (payload)   |
| tion.   | A symmetry property of a wave func-   |  | Gauss equation   |  | h   |
| RT  | BCH codes   |  | Helmholtz vorticity equation   | particle   |   |
| 13.1  | coding  |  | Liouville equations  | GS   | beams (radiation)   |
|   | conservation  |  | parabolic differential equations   |  | particle beams  |
|   |   |  | Poisson equation   |  | atomic beams  |
|   | correction<br>CR violation  |  | vlasov equations   |  | electron beams  |
|   | CP violation  | RT   | 0 1  |  | relativistic electron beams   |
|   | equivalence   |  | Boltzmann-Vlasov equation  |  | ion beams   |
|   | error detection codes   |  | ∞ equations  |  | neutral beams   |
|   | information theory  |  | Euler-Bernoulli beams  |  | molecular beams   |
|   | nuclear physics   |  | functional integration   |  | neutron beams   |
|   | particle spin   |  | kinetic equations  |  | neutrino beams  |
|   | quantum numbers   |  | Laplace equation   |  | pion beams  |
|   | quantum theory  |  | method of characteristics  |  | proton beams  |
|   | strangeness   |  | Neumann problem  | RT   | beam splitters  |
|   | vector currents   |  | reaction-diffusion equations   |  | electron acceleration   |
|   |   |  | Trefftz method   |  | electron bombardment  |
| ∞ parking   |   |  | wave equations   |  | flux (rate)   |
| SN  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  |  |  |  | ion stripping   |
|   | LISTED BELOW)   | partial  | pressure   |  | magnetic sails  |
|   |   |  | procedio   |  | magnetic sails  |
| RT  | parking orbits  | •  | The pressure exerted by a designated   |  | phonon beams  |
| RT  |   | DEF  | •  |  |   |
| RT  | parking orbits  | DEF  | The pressure exerted by a designated   | particle   |   |
| RT parking  | parking orbits ramps (structures)   | DEF<br>compo   | The pressure exerted by a designated   |  | phonon beams  |
|   | parking orbits ramps (structures)   | DEF<br>compo<br>ture.  | The pressure exerted by a designated nent or components of a gaseous mix-  | RT   | phonon beams  charging charged particles  |
| parking   | parking orbits ramps (structures)  orbits   | DEF<br>compo<br>ture.  | The pressure exerted by a designated nent or components of a gaseous mix-pressure  | RT particle  | phonon beams  charging charged particles  collisions  |
| parking   | parking orbits ramps (structures)  orbits orbits  | DEF<br>compo<br>ture.  | The pressure exerted by a designated nent or components of a gaseous mix- pressure pressure pressure   | RT particle  | phonon beams  charging charged particles  collisions collisions   |
| parking   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits   | DEF<br>compo<br>ture.  | The pressure exerted by a designated nent or components of a gaseous mix- pressure partial pressure oxygen tension   | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions   |
| parking   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits  | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure  partial pressure  oxygen tension  hypoxemia   | RT particle  | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions   |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits   | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure  . partial pressure  . oxygen tension  . hypoxemia Dalton law  | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions   |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories   | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure partial pressure oxygen tension hypoxemia Dalton law gas pressure Henry law  | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions   |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits   | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix- pressure partial pressure by the pressure by the pressure by the pressure by the pressure by the pressure by the pressure by the pressure by the pressure  | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas  |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization   | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure partial pressure oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure  | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations  |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories   | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure  partial pressure  oxygen tension  hypoxemia  Dalton law  gas pressure  Henry law  internal pressure  Raoult law   | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas  |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits   | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure partial pressure oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension  | RT particle GS                                     | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations  |
| <b>parking</b><br>GS  | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits  | DEF<br>compo<br>ture.<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure  partial pressure  oxygen tension  hypoxemia  Dalton law  gas pressure  Henry law  internal pressure  Raoult law  residual gas   | RT  particle  GS                                   | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path   |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories  | DEF compo ture. GS RT  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure  partial pressure  oxygen tension  hypoxemia  Dalton law  gas pressure  Henry law  internal pressure  Raoult law  residual gas  tension  vapor pressure  e acceleration  | RT  particle  GS                                   | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions  |
| parking<br>GS<br>RT   | parking orbits' ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics   | DEF compo ture. GS RT  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure partial pressure oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time)  | RT  particle  GS                                   | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation   |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics parking  | DEF compo ture. GS RT  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics)   | RT  particle  GS                                   | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering  |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits   | DEF compo ture. GS RT  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure partial pressure oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time)  | RT  particle  GS                                   | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation   |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits   | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas  tension vapor pressure  acceleration rates (per time) . acceleration  acceleration  acceleration  acceleration  | particle<br>GS<br>RT                               | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering   |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming  | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration . pressure particle acceleration  | particle   | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering   |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits   | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas  tension vapor pressure  acceleration rates (per time) . acceleration  acceleration  acceleration  acceleration  | particle   | phonon beams  charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering   |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits on disease   | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration magnetic fields plasma acceleration   | particle  particle  USE                            | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  |
| parking<br>GS<br>RT   | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases   | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields   | particle USE                                       | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay   |
| parking<br>GS<br>RT<br>Parkins<br>GS                                      | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease   | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration magnetic fields plasma acceleration   | particle USE  particle (adde                       | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay and May 1994)   |
| parking<br>GS<br>RT<br>Parkins<br>GS                                      | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease   | DEF compo ture. GS RT  particl GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas etension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators)   | particle USE                                       | charging charged particles  collisions collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay and May 1994) (LIMITED TO THE DECAY OF   |
| parking<br>GS<br>RT<br>Parkins<br>GS<br>RT                                | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease   | Particl<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas etension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators)   | particle USE  particle (adde                       | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES   |
| parking GS RT  Parkins GS RT  parks                                       | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors   | Particl<br>GS  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets   | particle USE  particle (adde SN                    | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay ad May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY)   |
| parking GS RT  Parkins GS RT  parks                                       | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks  | DEF compo ture. GS RT  particl GS RT   | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets   | particle USE  particle (adde SN                    | charging charged particles  collisions collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay ad May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay decay decay  |
| parking GS RT  Parkins GS RT  parks                                       | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar trajectories orbital mechanics orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors   | particles  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration  acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets   | particle USE  particle (adde SN                    | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay ad May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY)   |
| parking GS RT  Parkins GS RT  parks                                       | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks . national parks   | particles  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets . particle accelerator targets   | particle USE particle (adde SN) GS                 | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay   |
| parking GS RT  Parkins GS RT  parks GS                                    | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . spacecraft orbits . parking orbits Earth orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks . national parks . Yellowstone National Park (ID-MT-WY)  | particles  | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets targets . particle accelerator targets caccelerators  | particle USE particle (adde SN) GS                 | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay . neutron decay CP violation  |
| parking GS RT  Parkins GS RT  parks                                       | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park   | particle GS  RT  particle GS  RT   | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets targets . particle accelerator targets caccelerators  | particle USE particle (adde SN) GS                 | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay . particle decay . neutron decay  |
| parking GS RT  Parkins GS RT  parks GS                                    | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . spacecraft orbits . parking orbits Earth orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park (ID-MT-WY) recreation regional planning  | particle GS RT particle GS RT particle GS RT   | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration (physics) . particle acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets targets . particle accelerator targets accelerators target thickness  | particle USE particle (adde SN) GS                 | charging charged particles  collisions collisions particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay particle decay . neutron decay CP violation elementary particle interactions fermions  |
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| parking GS RT  Parkins GS RT  parks GS                                    | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . spacecraft orbits . parking orbits Earth orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park (ID-MT-WY) recreation regional planning  | particle GS  Particle GS  RT  Particle GS  RT  Particle GS  RT   | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration (physics) . particle acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets targets . particle accelerator targets accelerators target thickness  e accelerators Specifically, devices for imparting large  | particle USE particle (adde SN) GS                 | charging charged particles  collisions collisions particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay particle decay . neutron decay CP violation elementary particle interactions fermions  |
| parking<br>GS<br>RT<br>Parkins<br>GS<br>RT<br>parks<br>GS                 | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land     parks . national parks . Yellowstone National Park     (ID-MT-WY) recreation regional planning urban development urban planning  | particle GS  Particle GS  RT  Particle GS  RT  Particle GS  RT   | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets targets . particle accelerator targets accelerators Specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions.   | particle GS RT  particle USE particle (adde SN) GS | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay . neutron decay CP violation elementary particle interactions fermions hadrons  |
| parking GS RT  Parkins GS RT  parks GS                                    | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park (ID-MT-WY) recreation regional planning urban development urban planning  | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration electromagnetic acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions e accelerator targets targets . particle accelerator targets accelerators Specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions.   | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay . neutron decay CP violation elementary particle interactions fermions hadrons radioactive decay  |
| parking GS RT  Parkins GS RT  parks GS                                    | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land     parks . national parks . Yellowstone National Park     (ID-MT-WY) recreation regional planning urban development urban planning  | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas  tension vapor pressure  e acceleration rates (per time) . acceleration acceleration (physics) . particle acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets . particle accelerator targets accelerators scacelerators e accelerators specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions. particle accelerators   | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay ad May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay . neutron decay CP violation elementary particle interactions fermions hadrons radioactive decay  density (concentration) density (number/volume)  |
| parking GS RT  Parkins GS RT  parks GS  RT                                | parking orbits ramps (structures)  orbits orbits . spacecraft orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics -parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks rational parks Yellowstone National Park   | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension . hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration (physics) . particle acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets . particle accelerator targets accelerators Specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions. particle accelerators . cyclic accelerators . occlic accelerators . betatrons   | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . neutron decay . reticle decay . neutron decay . reticle decay . reticle decay density (concentration) density (number/volume) . particle density (concentration)   |
| parking GS RT  Parkins GS RT  parks GS RT  parks Parotid GUSE  parsing    | parking orbits ramps (structures)  orbits orbits . spacecraft orbits satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park   | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas tension vapor pressure  e acceleration rates (per time) . acceleration acceleration (physics) . particle acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets . particle accelerator targets accelerators target thickness  e accelerators Specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions. particle accelerators . cyclic accelerators . betatrons . synchrocyclotrons  | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions . particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay ad May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . particle decay . neutron decay CP violation elementary particle interactions fermions hadrons radioactive decay density (concentration) density (number/volume) . particle density (concentration) . electron density (concentration)                 |
| parking GS RT  Parkins GS RT  parks GS RT  parks GS RT  parks GS          | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks . national parks Yellowstone National Park (ID-MT-WY) recreation regional planning urban development urban planning gland salivary glands  algorithms Computer routines for the syntactic | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas  tension vapor pressure  e acceleration rates (per time) . acceleration particle acceleration acceleration racetracks (particle acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets . particle accelerator targets accelerators scacelerators accelerators specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions. particle accelerators . synchrocyclotrons . synchrotrons  | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . neutron decay CP violation elementary particle interactions fermions hadrons radioactive decay density (concentration) density (number/volume) . particle density (concentration) cerrier density (solid state)  |
| parking GS RT Parkins GS RT parks GS RT parotid GUSE parsing DEF and/or s | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . spacecraft orbits . parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar trajectories orbital mechanics parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park  | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure  pressure  partial pressure  partial pressure  partial pressure  partial pressure  partial pressure  partial pressure  partial pressure  Raoult law  pas pressure  Raoult law  pas pressure  Raoult law  peressure  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle acceleration  particle accelerators  particle accelerators  particle accelerator targets  particle accelerator targets  particle accelerator targets  particle accelerators  part | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay particle decay neutron decay CP violation elementary particle interactions fermions hadrons radioactive decay  density (concentration) density (number/volume) particle density (concentration) electron density (solid state) celectron density (profiles |
| parking GS RT Parkins GS RT parks GS RT parotid GUSE parsing DEF and/or s | parking orbits ramps (structures)  orbits orbits . spacecraft orbits . satellite orbits parking orbits Earth orbits Earth-Moon trajectories flight optimization interplanetary trajectories low Earth orbits lunar orbits lunar orbits lunar orbits lunar trajectories orbital mechanics -parking planetary orbits thrust programming transfer orbits  on disease diseases . Parkinson disease tremors  land . parks national parks Yellowstone National Park   | particles GS RT Particles GS R | The pressure exerted by a designated nent or components of a gaseous mix-  pressure . partial pressure . oxygen tension hypoxemia Dalton law gas pressure Henry law internal pressure Raoult law residual gas  tension vapor pressure  e acceleration rates (per time) . acceleration particle acceleration acceleration racetracks (particle acceleration magnetic fields plasma acceleration racetracks (particle accelerators) wave-particle interactions  e accelerator targets targets . particle accelerator targets accelerators scacelerators accelerators specifically, devices for imparting large energy to charged particles, such as ns, protons, deuterons, and helium ions. particle accelerators . synchrocyclotrons . synchrotrons  | particle USE particle (adde SN GS RT               | charging charged particles  collisions collisions particle collisions atomic collisions atomic excitations BGK model dense plasmas Faddeev equations ionic collisions kinetics mean free path molecular collisions molecular excitation nucleon-nucleon scattering scattering  counters radiation counters  decay d May 1994) (LIMITED TO THE DECAY OF ELEMENTARY PARTICLES; EXCLUDES NUCLEAR DECAY) decay . neutron decay CP violation elementary particle interactions fermions hadrons radioactive decay density (concentration) density (number/volume) . particle density (concentration) cerrier density (solid state)  |

|            | electron distribution                       |                  | PIV (velocimetry)                          |          | nuclides  |
|------------|---|------------------|--|----------|---|
|            | electron density profiles                   | GS               | mechanical measurement                     |          |   |
|            | ion density (concentration)                 |                  | . flow measurement                         | particle |   |
|            | ionospheric ion density                     |                  | particle image velocimetry                 | RT       | diffraction radiation                                 |
|            | magnetospheric ion density                  |                  | . velocity measurement                     |          | electrophoresis                                       |
|            | magnetospheric proton density               |                  | particle image velocimetry                 |          | falling   |
|            | proton density (concentration)              | RT               | flow distribution                          |          | lattice vibrations                                    |
|            | magnetospheric proton density               |                  | flow velocity                              |          | magnetic rigidity                                     |
|            | plasma density                              |                  | flow visualization                         |          | mean free path  |
| RT         | atmospheric density                         |                  | imaging techniques                         | 000      | motion  |
|            | ESRO 4 satellite                            |                  | laser doppler velocimeters                 |          | neutral sheets  |
|            | ion stripping                               |                  | photographic measurement                   |          | photophoresis recoilings                              |
|            | ionospheric composition                     |                  | photographic recording                     |          |   |
|            | space density                               |                  | two phase flow                             |          | relativistic velocity settling                        |
|            | spatial distribution                        |                  |  |          | thermophoresis  |
| particle ( | detectors                                   |                  | in cell technique                          |          | transverse momentum                                   |
| •          | radiation counters                          | GS               | analysis (mathematics)                     |          | tiansverse momentum                                   |
| 002        |   |                  | . numerical analysis                       | particle | precipitation   |
| particle   | diffusion                                   |                  | approximation                              |          | The precipitation of particles other than             |
| GS         | diffusion                                   | DT               | particle in cell technique                 |          | s and protons.  |
|            | . particle diffusion                        | RT ∞             |  | GS       | particle precipitation                                |
|            | electron diffusion                          |                  | crystal lattices                           |          | . electron precipitation                              |
|            | ionic diffusion                             |                  | flow equations methodology                 |          | . proton precipitation                                |
| RT         | atomic beams                                |                  | vortex in cell technique                   | RT       | atomic structure                                      |
|            | Boltzmann transport equation                |                  | . S. LEX III COII LOOTIIIIQUO              |          | charged particles                                     |
|            | diffusion coefficient                       | portiolo         | intensity                                  | ∞        | precipitation   |
|            | diffusion length                            | ∞ particle<br>SN | (USE OF A MORE SPECIFIC TERM IS            |          |   |
|            | drop size                                   | SIN              | RECOMMENDEDCONSULT THE TERMS               |          | production  |
|            | flux (rate)                                 |                  | LISTED BELOW)                              | GS       | particle production                                   |
|            | gaseous self-diffusion                      | RT               | particle energy                            |          | . kaon production                                     |
|            | molecular diffusion                         |                  | particle flux density                      |          | . pair production                                     |
|            | muon spin rotation                          |                  |  | DT       | . photoproduction                                     |
|            | self diffusion (solid state) thermophoresis |                  | interactions                               | RT       | comminution   |
|            | thermophoresis                              | GS               | particle interactions                      |          | corpuscular radiation high energy interactions        |
| particle   | emission                                    |                  | . elementary particle interactions         |          | nuclear radiation                                     |
| •          | emission                                    |                  | electroweak interactions (field            |          | nuclear reactions                                     |
|            | . particle emission                         |                  | theory)                                    |          | particles   |
|            | electron emission                           |                  | high energy interactions                   |          | radioactivity   |
|            | field emission                              |                  | strong interactions (field theory)         |          | spallation  |
|            | photoelectric emission                      |                  | meson-meson interactions                   |          | - F   |
|            | secondary emission                          |                  | meson-nucleon interactions nuclear capture | particle | size distribution                                     |
|            | ion emission                                |                  | electron capture                           | GS       | size distribution                                     |
|            | neutron emission                            |                  | nucleon-nucleon interactions               |          | . particle size distribution                          |
|            | thermionic emission                         |                  | weak energy interactions                   | RT       | dimensions  |
| RT         | exhaust emission                            |                  | weak interactions (field theory)           |          | drop size   |
|            | expulsion                                   |                  | proton-antiproton interactions             |          | fineness  |
|            | self sustained emission                     |                  | . ion atom interactions                    |          | fines   |
|            | stimulated emission                         |                  | . molecular interactions                   |          | fractions   |
| particle   | eneray                                      |                  | molecular collisions                       |          | grain size  |
|            | particle energy                             |                  | . nuclear interactions                     |          | particles   |
|            | . electron energy                           |                  | nuclear capture                            |          | particulates  |
|            | electron states                             |                  | electron capture                           |          | precipitation particle measurement size determination |
|            | . proton energy                             |                  | spin-orbit interactions                    |          | size separation                                       |
| RT ∞       | energy                                      |                  | electron capture                           |          |   |
|            | internal energy                             |                  | weak interactions (field theory)           |          | solids flow<br>thermophoresis                         |
|            | kinetic energy                              |                  | . plasma-particle interactions             |          | anomiophorodio  |
|            | monochromatization                          | DT               | . wave-particle interactions               | particle | spin  |
| 00         | particle intensity                          | RT               | Bragg curve                                | . GS     | spin  |
|            | -   |                  | charm (particle physics)                   |          | particle spin   |
| particle 1 |   |                  | chemical reactions collision parameters    |          | electron spin   |
| USE        | flux (rate)                                 |                  | electron phonon interactions               |          | isotopic spin   |
| narticle   | flux density                                |                  | electron scattering                        |          | nuclear spin  |
| SN         | (LIMITED TO PARTICLE EMISSION OR            |                  | Feynman diagrams                           | RT       | angular momentum                                      |
|            | DETECTION RATE PER UNIT AREA)               |                  | flavor (particle physics)                  |          | Ising model   |
| GS         | rates (per time)                            | ∞                | interactions                               |          | muon spin rotation                                    |
|            | . flux density                              |                  | neutral currents                           |          | nuclear magnetic resonance                            |
|            | radiant flux density                        |                  | nuclear reactions                          |          | nuclear physics                                       |
|            | particle flux density                       |                  | photonuclear reactions                     |          | parity  |
|            | electron flux density                       |                  | photophoresis                              |          | quenching (atomic physics)<br>spin resonance          |
|            | neutron flux density                        |                  | quantum chromodynamics                     |          | spiri resoriance                                      |
| RT         | proton flux density Helios satellites       |                  |  | particle | telescopes  |
|            |   | particle         | laden jets                                 | UF       | electron telescopes                                   |
| 00         | particle intensity                          | DEF              | Fluid, mainly issuing from a nozzle,       |          | GEP telescopes  |
|            | radiancy<br>radiation counters              |                  | turbulent and contain dispersed par-       |          | Goddard experiment package                            |
|            | radiation pressure                          | ticles.          |  |          | telescope   |
|            | solar constant                              | RT               | fuel flow                                  |          | proton telescopes                                     |
|            | solar flux density                          |                  | jet flow                                   | GS       | measuring instruments                                 |
|            |   |                  | particles                                  |          | . counters  |
| particle i | mage displacement velocimetry               |                  | turbulent flow                             |          | radiation counters                                    |
| USE        | particle image velocimetry                  |                  |  |          | particle telescopes                                   |
|            |   | particle         |  |          | radiation measuring instruments                       |
|            | image velocimetry                           | GS               | mass                                       |          | radiation counters                                    |
|            | ed June 1993)                               |                  | . particle mass                            |          | particle telescopes                                   |
| UF         | particle image displacement                 |                  | electron mass                              |          | telescopes  |
|            | velocimetry                                 | RT               | gravitinos                                 |          | particle telescopes                                   |
|            | PIDV (velocimetry)                          |                  | magnetic rigidity                          | RT       | anticoincidence detectors                             |

# particle theory

Geiger counters . . . . cold plasmas . . . . collisional plasmas satellite-borne instruments . . . . collisional plasmas . . . . strongly coupled plasmas scintillation counters . . . . strongly coupled plasmas . . . . collisionless plasmas .... collisionless plasmas . . . . cosmic plasma particle theory RT body kinematics .... cosmic plasma . . . . cylindrical plasmas . . . . cylindrical plasmas . . . . dense plasmas charm (particle physics) . . . dense plasmas . . plasma focus collision parameters . . . . plasma focus . . . . strongly coupled plasmas electroweak model strongly coupled plasmas electron plasma flavor (particle physics) ... electron plasma . . . . electron-positron plasmas grand unified theory electron-positron plasmas elliptical plasmas Higgs bosons elliptical plasmas helium plasma helium plasma high temperature plasmas many body problem high temperature plasmas hydrogen plasma plasma-particle interactions . . hydrogen plasma . deuterium plasma quark models . deuterium plasma laser plasmas standard model (particle physics) laser plasmas . . . metallic plasmas string theory . . . metallic plasmas . . cesium plasma supergravity . . . cesium plasma . . . . uranium plasmas supersymmetry . uranium plasmas . microplasmas ∞ theories . . microplasmas . . . nitrogen plasma unified field theory . . . nitrogen plasma
. . . nonequilibrium plasmas ... nonequilibrium plasmas
... nonuniform plasmas weak energy interactions . . . . oxygen plasma . . . . rarefied plasmas nonuniform plasmas particle tracks ... oxygen plasma
... rarefied plasmas
... relativistic plasmas chemical analysis relativistic plasmas core sampling . . . . rotating plasmas cosmic rays rotating plasmas semiconductor plasmas space plasmas semiconductor plasmas fossils . space plasmas . . solar wind . . stellar winds geochronology lunar rocks solar wind meteoroids stellar winds dusty plasmas nuclear particles dusty plasmas spherical plasmas spherical plasmas radiation effects thermal plasmas stratigraphy thermal plasmas . . . . toroidal plasmas trace elements ∞ tracks toroidal plasmas . . primary cosmic rays ionized gases . solar cosmic rays particle trajectories . . . Lorentz gas . . radiation belts . . magnetically trapped particles artificial radiation belts GS trajectories particle trajectories . . . radiation belts inner radiation belt electron trajectories . artificial radiation belts outer radiation belt bubble chambers . . . . inner radiation belt ... proton belts charged particles .... outer radiation belt . . solar corpuscular radiation electron optics .... proton belts ... solar electrons ionizing radiation . . partons solar neutrinos . . plasma clouds . . . solar neutrons ∞ motion magnetic clouds . . . solar protons ∞ paths . drops (liquids) racetracks (particle accelerators) . . plasma jets . radio jets (astronomy) . . raindrops plasma layers . dust . plasma sheaths . . cosmic dust particles DEF Elementary subatomic particles such as protons, electrons or neutrons. Very small . . plasma slabs . . . interplanetary dust . . . . meteoroid dust clouds positrons pieces of matter. In celestial mechanics, hypo-. . protons . . . . zodiacal dust . . . recoil protons thetical entities which respond to gravitational . . lunar dust forces but which exert no appreciable gravita-. . terrestrial dust belt tional force on other bodies, thus simplifying orbital computations. . corpuscular radiation
. electron precipitation . elementary particles
. antiparticles electron radiation particles antineutrinos GS ... antinucleons . . . beta particles . aerosols electron beams . . fog . charged particles . relativistic electron beams positrons . . antiprotons . . energetic particles energetic particles . beta particles electrons . . bosons electrons conduction electrons alpha particles conduction electrons free electrons Higgs bosons high energy electrons free electrons . . . mesons high energy electrons . relativistic electron beams . eta-mesons . relativistic electron beams hot electrons ... hyperons hot electrons N electrons . xi hyperons N electrons negatrons kaons negatrons photoelectrons . . . . meson resonance photoelectrons pi-electrons .... X mesons pi-electrons polarons . muons polarons solar electrons . . . . omega-mesons solar electrons nuclei (nuclear physics) . . . . pions nuclei (nuclear physics) . . . . alpha particles . . . . vector mesons alpha particles deuterons . rho-mesons deuterons even-even nuclei . . . . . sigma-mesons even-even nuclei heavy nuclei . . . photons heavy nuclei hypernuclei . . . xi hyperons odd-even nuclei hypernuclei . . deuterons odd-even nuclei odd-odd nuclei . . electron-positron pairs odd-odd nuclei tritons . . fermions . . . . tritons ... plasmas (physics) . . . baryons . . . plasmas (physics) . . . hyperons argon plasma . . . xi hyperons beta particles boundary layer plasmas .... omega-mesons beta particles . . . . rho-mesons . . . . cold plasmas . . . . boundary layer plasmas

| sigma-mesons  | eta-mesons  | air sampling   |
|---|---|--|
| eta-mesons  | hyperons  | atmospheric composition  |
| leptons   | xi hyperons   | combustion products  |
| antineutrinos   | kaons   | contaminants   |
|   | meson resonance   | dispersions  |
| electrons   |   | · ·  |
| conduction electrons  | X mesons  | dust   |
| free electrons  | muons   | exhaust gases  |
|   | omega-mesons  | fly ash  |
| high energy electrons                                       | pions   | grain formation  |
| relativistic electron beams                                 | •   |  |
| hot electrons   | vector mesons   | particle size distribution   |
|   | rho-mesons  | particulate reinforced composites  |
| N electrons   | sigma-mesons  | particulate sampling   |
| negatrons   | photons   | pollution control  |
| photoelectrons  | · · · · · · · · · · · · · · · · · · ·                                   |  |
| pi-electrons  | xi hyperons   | pollution monitoring   |
| •   | nucleons  | smog   |
| polarons  | photoelectrons  | smoke  |
| solar electrons   | . particulates  | solid suspensions  |
| muons   | •   | cond caoponolone   |
| neutrinos   | soot  |  |
|   | . pollen  | ∞ partitions   |
| solar neutrinos   | . powder (particles)  | SN (USE OF A MORE SPECIFIC TERM IS   |
| positrons   | fines   | RECOMMENDEDCONSULT THE TERMS   |
| meson resonance   |   | LISTED BELOW)  |
| X mesons  | metal powder  | RT curtains  |
|   | platinum black  |  |
| neutrons  | powdered aluminum   | partitions (mathematics)   |
| cold neutrons   | sintered aluminum powder  | partitions (structures)  |
| fast neutrons   | . relativistic particles  | septum   |
| photoneutrons   |   | ·  |
| solar neutrons  | relativistic electron beams   |  |
|   | . trapped particles   | partitions (mathematics)   |
| thermal neutrons  | magnetically trapped particles  | GS analysis (mathematics)  |
| protons   | radiation belts   | . combinatorial analysis   |
| recoil protons  |   |  |
|   | artificial radiation belts  | partitions (mathematics)   |
| solar protons   | inner radiation belt  | RT combinations (mathematics)  |
| hadrons   | outer radiation belt  | equivalence  |
| baryons   |   | ∞ partitions   |
| hyperons  | proton belts  | ·  |
|   | . nanoparticles   | permutations   |
| xi hyperons   | RT air pollution  | Voronoi diagrams   |
| omega-mesons  | chemical clouds   | -  |
| rho-mesons  |   | and the second   |
| sigma-mesons  | ∞ clouds  | partitions (structures)  |
| 9   | colloids  | RT bulkheads   |
| mesons  | deuteron irradiation  | curtains   |
| eta-mesons  | dirt  | ∞ partitions   |
| hyperons  |   | The second secon |
| xi hyperons   | dispersions   | thin walls   |
|   | gas atomization   | walls  |
| kaons   | ∞ grains  |  |
| meson resonance   | granular materials  |  |
| X mesons  |   | partons  |
| muons   | grit  | GS particles   |
|   | ion stripping   | . charged particles  |
| omega-mesons  | ions  |  |
| pions   | neutral beams   | partons  |
| vector mesons   |   | . elementary particles   |
| rho-mesons  | neutron beams   | hypothetical particles   |
|   | nodules   | partons  |
| sigma-mesons  | nonpoint sources  |  |
| hypothetical particles                                      | particle laden jets   | RT hadrons   |
| magnetic monopoles  |   | leptons  |
| nucleons  | particle production   | quark parton model   |
|   | particle size distribution  | quarks   |
| gluons  | positron annihilation   | quanto   |
| gravitinos  | precipitation particle measurement                                      |  |
| gravitons   |   | parts  |
| partons   | proton precipitation  | •  |
| •   | smoke   | USE components   |
| quarks  |   |  |
| tachyons  | particulate filters   | PAS  |
| weakly interacting massive                                  | USE fluid filters   |  |
| particles   | USE Hulu Hiters   | UF perigee-apogee satellites   |
|   |   | GS artificial satellites   |
| . flakes  | particulate reinforced composites                                       | . PAS  |
| . metal particles   | (added January 1992)  | RT elliptical orbits   |
| metal powder  | GS composite materials  | ·  |
| platinum black  | . particulate reinforced composites                                     | twenty-four hour orbits  |
|   | ·   |  |
| powdered aluminum   | RT metal matrix composites  | December (management and law management)   |
| sintered aluminum powder                                    | metal particles   | Pascal (programming language)  |
| . microparticles  | microparticles  | DEF High order computer programming lan-   |
| . mist  |   | guage developed by Niklaus Wirth originally as   |
|   | nanocomposites  | an educational tool to foster structured program   |
| . neutral particles   | particulates  | 1 0  |
| gravitinos  | reinforcing materials   | ming.  |
| neutrons  | <del>-</del>  | GS languages   |
|   | norticulate compline  | . programming languages  |
| cold neutrons   | particulate sampling  | Pascal (programming language)  |
| fast neutrons   | GS sampling   |  |
| photoneutrons   | . particulate sampling  | RT compilers   |
| solar neutrons  | RT assaying   | computer programming   |
|   | , 0   | · · · -  |
| thermal neutrons  | chemical analysis   |  |
| . nuclear particles   | concentration (composition)   | Paschen series   |
| antiparticles   | identifying   | GS spectra   |
| antineutrinos   |   | . radiation spectra  |
|   |   | . IQUIQUUII SUCUIA   |
| antinuala   | particulates  |  |
| antinucleons  | particulates  | . electromagnetic spectra  |
| antinucleons antiprotons                                    |   |  |
| antiprotons   | particulates particulates   | . electromagnetic spectra line spectra   |
| antiprotons positrons                                       | particulates  particulates  GS particles                                | electromagnetic spectra<br>line spectra<br><b>Paschen series</b>   |
| antiprotons<br>positrons<br>beta particles                  | particulates  particulates  GS particles . particulates                 | electromagnetic spectra line spectra Paschen series RT absorption spectra  |
| antiprotons positrons beta particles bosons                 | particulates  particulates  GS particles . particulates soot            | . electromagnetic spectra line spectra Paschen series RT absorption spectra atomic spectra   |
| antiprotons<br>positrons<br>beta particles                  | particulates  particulates  GS particles . particulates                 | electromagnetic spectra line spectra Paschen series RT absorption spectra  |
| antiprotons positrons beta particles bosons alpha particles | particulates  particulates GS particles . particulates soot RT aerosols | . electromagnetic spectra . line spectra . Paschen series RT absorption spectra atomic spectra electron transitions  |
| antiprotons positrons beta particles bosons                 | particulates  particulates  GS particles . particulates soot            | . electromagnetic spectra line spectra Paschen series RT absorption spectra atomic spectra   |

|         | hydrogen   |         | . IL-62 aircraft                       |                | ultrahigh frequencies  |
|---------|--|---------|--|----------------|--|
| Pasipha | ae   |         | . IL-76 aircraft<br>. IL-86 aircraft   | passive        | nosetip technology   |
|         | ed January 1996)                                 |         | . IL-96 aircraft                       |                | PANT program   |
| DEF     | A natural satellite of Jupiter orbiting at       |         | . Jetstream aircraft                   |                |  |
|         | distance of 23,500,000 kilometers.               |         | . L-1011 aircraft                      |                | e satellites   |
| GS      | celestial bodies                                 |         | . L-2000 aircraft                      | UF<br>GS       | reflector satellites<br>artificial satellites                                  |
|         | . natural satellites Jupiter satellites          |         | . MD 11 aircraft                       | 00             | . passive satellites   |
|         | Pasiphae   |         | . MD 80 aircraft . Mystere 20 aircraft |                | Beacon satellites  |
| RT      | Jupiter (planet)                                 |         | . Mystere 50 aircraft                  |                | Beacon Explorer A  |
|         | . "  |         | . OH-5 helicopter                      |                | Explorer 22 satellite  |
| passag  |  |         | . P-160 aircraft                       |                | Echo satellites  |
|         | A pass-through between non-adjacent s or spaces. |         | . P-166 aircraft                       |                | Echo 1 satellite Echo 2 satellite  |
| GS      | passageways                                      |         | . SE-210 aircraft                      |                | LAGEOS (satellite)   |
| 00      | . straits  |         | . T-39 aircraft<br>. TU-104 aircraft   |                | PAGEOS satellite   |
|         | Torres Strait                                    |         | . TU-124 aircraft                      | RT             | active satellites  |
|         | . transfer tunnels                               |         | . TU-134 aircraft                      |                | communication satellites   |
| RT      | approach   |         | . TU-144 aircraft                      |                | Echo project   |
|         | cavities<br>corridors                            |         | . TU-204 aircraft                      |                | geodetic satellites  |
|         | gaps   |         | . U-10 aircraft                        |                | navigation satellites satellite laser ranging                                  |
|         | notches  |         | . VC-10 aircraft . Viscount aircraft   |                | synchronous satellites   |
|         | openings   |         | . Yak 40 aircraft                      |                | -,   |
| ۰       | ∘ paths  |         | . YS-11 aircraft                       | passivi        |  |
|         | roads  | RT      | air transportation                     | UF             | passivation  |
| ۰       | • tunnels  |         | ∞ aircraft                             | RT             | anodizing  |
|         | underground structures                           |         | AN-22 aircraft                         |                | chemical attack chemical properties  |
|         | vestibules                                       |         | AN-24 aircraft                         |                | coatings   |
| passen  | ger aircraft                                     |         | C-121 aircraft                         |                | corrosion  |
| UF      | executive aircraft                               |         | cargo aircraft civil aviation          |                | corrosion prevention   |
| GS      | passenger aircraft                               |         | commercial aircraft                    |                | corrosion resistance   |
|         | . BAC 111 aircraft                               |         | DC 7 aircraft                          |                | deactivation   |
|         | . BO-105 helicopter                              |         | E-2 aircraft                           |                | electrolysis   |
|         | . Boeing 707 aircraft . Boeing 720 aircraft      |         | general aviation aircraft              | ۰              | <ul><li>inhibition</li><li>inhibitors</li></ul>                                |
|         | . Boeing 727 aircraft                            |         | ground effect machines                 |                | oxidation  |
|         | . Boeing 737 aircraft                            |         | HC-3 helicopter                        |                | oxidation resistance   |
|         | . Boeing 747 aircraft                            |         | jet aircraft<br>light aircraft         |                | rusting  |
|         | . Boeing 757 aircraft                            |         | light transport aircraft               |                | siliconizing   |
|         | . Boeing 767 aircraft                            |         | ∞ low wing aircraft                    |                |  |
|         | Boeing 777 aircraft                              |         | Mercure aircraft                       |                | consistency) Mixtures with characteristic soft or                              |
|         | . Boeing 2707 aircraft . Breguet 941 aircraft    |         | MH-262 aircraft                        |                | consistencies.   |
|         | . C-33 aircraft                                  | •       | ∞ military aircraft                    | RT             | mixtures   |
|         | . C-35 aircraft                                  |         | P-531 helicopter                       |                |  |
|         | . C-46 aircraft                                  |         | PD-808 aircraft rotary wing aircraft   | pastes         |  |
|         | . Cessna 172 aircraft                            |         | Saab 105 aircraft                      | DEF            | Adhesive compositions having a char-   |
|         | . Cessna 205 aircraft                            |         | SC-7 aircraft                          |                | c plastic-type consistency, that is, high                                      |
|         | . Cessna 210 aircraft                            |         | short haul aircraft                    |                | f yield values, such as that of pastes<br>d by heating a mixture of starch and |
|         | . Cessna 402B aircraft<br>. CH-3 helicopter      |         | ∞ subsonic aircraft                    |                | nd subsequently cooling the hydrolyzed   |
|         | . CH-46 helicopter                               |         | supersonic aircraft                    | product        |  |
|         | . CH-47 helicopter                               |         | supersonic transports                  | GS             |  |
|         | . CH-54 helicopter                               |         | transport aircraft                     |                | . pastes   |
|         | Comet 4 aircraft                                 |         | TU-154 aircraft<br>turbofan aircraft   | RT             | glues  |
|         | . commuter aircraft                              |         | turboprop aircraft                     |                | plasters   |
|         | ATR-72 aircraft                                  |         | V/STOL aircraft                        | pasteui        | rizina   |
|         | . CV-340 aircraft<br>. CV-440 aircraft           |         | very large transport aircraft          |                | heating  |
|         | . CV-880 aircraft                                |         | water takeoff and landing aircraft     |                | . pasteurizing   |
|         | . CV-990 aircraft                                |         |  | RT             | purification   |
|         | . DC 8 aircraft                                  | passer  |  |                | sterilization  |
|         | . DC 10 aircraft                                 | RT      | automated guideway transit vehicles    |                |  |
|         | . DH 121 aircraft                                |         | automated mixed traffic vehicles       |                | Intennas<br>ed June 1997)  |
|         | . DH 125 aircraft                                |         | automated transit vehicles             | GS             | ,  |
|         | . DO-27 aircraft<br>. DO-28 aircraft             |         | payloads                               | 00             | . patch antennas   |
|         | . DO-28 aircraft                                 |         | rapid transit systems                  | RT             | antenna arrays   |
|         | . Electra aircraft                               |         | riding quality                         |                | antenna design   |
|         | . European Airbus                                |         | transportation                         |                | microstrip antennas  |
|         | A-300 aircraft                                   |         |  |                | microwave antennas   |
|         | A-310 aircraft                                   | passes  | gana (gaalagu)                         | matab t        |  |
|         | A-320 aircraft                                   | USE     | gaps (geology)                         | patch to<br>SN | (CONDITIONS FOR ASSESSING FINITE   |
|         | A-330 aircraft                                   | passiva | tion                                   | SIN            | <b>ELEMENT METHOD CONVERGENCE AND</b>  |
|         | A-340 aircraft<br>A-380 aircraft                 |         | passivity                              | рт             | STABILITY PROPERTIES)  |
|         | . A-360 aircraft . Boeing 717 aircraft           |         | • • •                                  | RT             | convergence finite element method  |
|         | . F-27 aircraft                                  | passive | elements                               |                | hydraulic fluids   |
|         | . F-28 helicopter                                |         | parasitic elements (antennas)          |                | structural analysis  |
|         | . F-28 transport aircraft                        |         | -                                      | ۰              | ∘ tests  |
|         | . G-1 aircraft                                   | passiv  | L-band radiometers                     |                |  |
|         | . G-222 aircraft                                 | GS      | measuring instruments                  |                | applications   |
|         | . H-19 helicopter                                |         | . radiation measuring instruments      | RT             | copyrights   |
|         | . H-53 helicopter                                |         | actinometers                           |                | inventions   |
|         | . H-56 helicopter                                |         | radiometers                            |                | licensing  |
|         | . HFB-320 aircraft                               | рт      | passive L-band radiometers             |                | patents  |
|         | . HS-748 aircraft                                | KI      | microwave frequencies                  |                | product development  |

|                     | technology utilization                              |                 | optical paths  |         | photomasks   |
|---------------------|---|-----------------|--|---------|--|
| patent <sub> </sub> | nolicy  |                 | orbits   |         | prototypes   |
|                     | policies  |                 | particle trajectories passageways                            |         | radiation distribution regularity  |
|                     | patent policy                                       |                 | PERT   |         | resins   |
| RT                  | intellectual property                               |                 | routes   |         | speckle patterns   |
|                     | inventions  |                 | sound transmission   |         | synthetic arrays   |
|                     | patents   |                 | thermodynamics   |         | templates  |
|                     | product development regulations                     |                 | trajectories   |         | test pattern generators Widmanstatten structure  |
|                     | rules   | patient         | S  |         | Widinanstatten structure   |
|                     |   | RT              |  | Patters | on map   |
| patents             |   |                 | human pathology  | GS      | charts   |
| GS                  | intellectual property . patents                     |                 | therapy  |         | . graphs (charts)  |
| RT                  | claiming  | Patriot         | missile  | RT      | Patterson map crystal lattices   |
|                     | grants  | DEF             | Surface to air, antiaircraft missile.                        | KI      | crystal structure  |
|                     | inventions  | GS              | missiles   |         | lattice parameters   |
|                     | patent applications                                 |                 | . surface to air missiles                                    |         |  |
|                     | patent policy                                       | DT              | Patriot missile missile configurations                       |         | cclusion principle   |
| path pla            | nnnina  |                 | orockets   | GS      | quantum mechanics . Pauli exclusion principle  |
|                     | trajectory planning                                 |                 | weapons  |         | wave functions   |
|                     |   |                 |  |         | . Pauli exclusion principle  |
|                     | der nuclear reactor                                 | patrols         |  | RT      | atomic structure   |
| GS                  | nuclear electric power generation                   | RT              | reconnaissance   |         | exclusion  |
|                     | . nuclear power reactors Pathfinder nuclear reactor | pattern         | distribution   |         | fermions   |
|                     | nuclear reactors                                    | USE             | distribution (property)                                      | paveme  | ents   |
|                     | . liquid cooled reactors                            |                 |  | RT      | asphalt  |
|                     | . water cooled reactors                             |                 | method (forecasting)   |         | coatings   |
|                     | boiling water reactors                              | GS              | management methods   |         | concretes  |
|                     | Pathfinder nuclear reactor                          |                 | . pattern method (forecasting) predictions                   |         | foundations  |
|                     | . nuclear power reactors Pathfinder nuclear reactor |                 | . forecasting  |         | highways<br>roads  |
|                     |   |                 | technological forecasting                                    |         | runways  |
| pathog              |   |                 | pattern method (forecasting)                                 |         | streets  |
| RT                  | cholera   | RT              | 1 ()   |         |  |
|                     | diseases  |                 | estimating  methodology                                      |         | l assist module  |
|                     | pathogens   | · ·             | operations research  | DEF     | Rocket vehicle with a spinning solid-<br>nt motor to attain injection velocity to      |
| pathogo             | ens   |                 | planning   |         | ayload into intended orbits from the   |
| DEF                 | Disease-producing agents, usually re-               |                 | probe method (forecasting)                                   |         | orbits of the STS.   |
|                     | o living organisms.                                 |                 | technology assessment  | . GS    | modules  |
| RT                  | bacteria  | nattern         | recognition  |         | payload assist module  |
|                     | Clostridium botulinum pathogenesis                  |                 | The identification of shapes, forms and                      |         | rocket vehicles  |
|                     | patriogenesis                                       |                 | rations by automatic means.                                  | RT      | . payload assist module instrument packages  |
|                     | gical cell death                                    | UF              | automatic pattern recognition                                | IXI     | payloads   |
|                     | ed October 2000)                                    |                 | feature extraction   |         | Space Shuttle payloads   |
| USE                 | necrosis  | GS              | recognition . pattern recognition                            |         | space transportation system  |
| patholo             | gical effects                                       |                 | character recognition  |         | spaceborne experiments   |
|                     | pathological effects                                |                 | graphology   | navload | l control  |
|                     | . necrosis  | RT              | change detection   | DEF     | Execution of events involved in oper-  |
| RT                  | biological effects                                  |                 | clumps   |         | e payload and supporting systems.  |
|                     | carbon monoxide poisoning                           |                 | cluster analysis   | RT ∝    | o control  |
|                     | cholera<br>diseases                                 |                 | computer vision context                                      |         | payloads   |
| 0                   | effects   |                 | edge detection   |         | sounding rockets space shuttles  |
|                     | physiological responses                             |                 | Feature Identification and Location                          |         | space shuttles   |
|                     | stress (biology)                                    |                 | Exper  | payload | I delivery (STS)   |
| noth olo            | au.   |                 | gray scale   |         | The transport of payloads via the  |
| patholo<br>GS       | medical science                                     |                 | image analysis image classification                          |         | Fransportation System including ground   |
|                     | . pathology   |                 | multisensor applications                                     |         | orbit delivery by the Space Shuttle and<br>orbit delivery via orbit transfer vehicles. |
|                     | human pathology                                     |                 | optical relay systems  | GS      | delivery   |
| RT                  | autopsies   |                 | principal components analysis                                |         | . payload delivery (STS)   |
|                     | diagnosis   |                 | readers  | RT      | Advanced Launch System (STS)   |
|                     | dissection<br>hemorrhages                           |                 | repetition   |         | electric power supplies  |
|                     | necrosis  | pattern         | registration   |         | Multi-Purpose Logistics Modules  |
|                     | radiation therapy                                   | RT              | comparison   |         | orbit insertion<br>orbit transfer vehicles   |
|                     | veterinary medicine                                 |                 | image contrast   |         | orbital launching  |
| notho               |   |                 | image correlators  |         | payloads   |
| paths<br>SN         | (USE OF A MORE SPECIFIC TERM IS                     |                 | image motion compensation image reconstruction               |         | power modules (STS)  |
| SIN                 | RECOMMENDEDCONSULT THE TERMS                        |                 | image resolution   |         | solar arrays   |
| UF                  | LISTED BELOW) courses                               |                 | imaging techniques   |         | space transportation system  |
| Oi                  | lanes   |                 | magnetic signatures  | payload | I deployment & retrieval system  |
| RT                  | critical path method                                |                 | matching   |         | System of mechanical and control de-   |
| -                   | diffraction paths                                   |                 |  |         | ith associated data systems, for payload   |
|                     | duality principle                                   | ∞ pattern<br>SN |  |         | j in space.  |
|                     | flight paths  | SIN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | RT      | manipulators   |
|                     | ground tracks                                       | рΤ              | LISTED BELOW)  |         | NASA programs  |
|                     | mean free path<br>meteor trails                     | RT              | diffraction patterns distribution (property)                 |         | orbit transfer vehicles payloads   |
|                     | multipath transmission                              |                 | drainage patterns  |         | remote handling  |
|                     | network analysis                                    |                 | kurtosis   |         | remote manipulator system  |
|                     | operations research                                 |                 | molds  |         | space shuttles   |

Space Station Mobile Servicing System ∞ systems payload integration RT mission planning payload integration plan payloads Space Shuttle payloads

payload integration plan

DEF Procedures providing for compatibility of spaceborne experiments with the carrier spacecraft (e.g., shuttle orbiter).

payload integration payloads ∞ plans Space Shuttle orbiters

Space Shuttle payloads space transportation system spaceborne experiments

payload mass ratio

GS ratios

. mass ratios

payload mass ratio

multistage rocket vehicles piggyback systems pressure ratio propellant mass ratio

payload retrieval (STS)

GS retrieval

payload retrieval (STS)

orbit transfer vehicles orbital rendezvous payload transfer remote manipulator system space shuttles space transportation system stationkeeping

payload stations

SN (THE POSITION OR MOUNTING PLACE FOR A PAYLOAD ONBOARD A ROCKET VEHICLE, SPACECRAFT, OR SPACE STATION: EXCLUDES ORBITAL STATIONS AND CREW WORKSTATIONS)

DEF The locations in the Space Shuttles' flight decks and cargo bay at which payloads are

mounted.

stations GS

payload stations payloads space transportation

payload transfer

DEF The in-space movement of payloads from point to point.

orbital servicing payload retrieval (STS) space maintenance

DEF Originally, the revenue producing portions of an aircraft's load, e.g., passengers, cargo, and mail. By extension, that which an aircraft, rocket, or spacecraft carries over and above which is necessary for the operation of the vehicle for its flight.

payloads

EXPOS (Spacelab payload)

. OSTA-2 payload . SEPAC (payload)

. Space Shuttle payloads

. . Advanced Technology Laboratory

. . Astro missions (STS)

. . Atmospheric General Circulation Experiment

. . Earth radiation budget experiment

. . Earth Viewing Applications Laboratory

. . electromagnetic environment experiment

. . Get Away Specials (STS)

. . Halogen Occultation Experiment

. OSS-1 payload

. . OSTA-3 payload

. . Physics and Chemistry Experiment in Space

plasma interaction experiment

. . Spacelab

. . X Ray Astrophysics Facility

space station payloads . Spacelab payloads

. . AMPS (satellite payload)

. . Atmospheric Cloud Physics Lab (Spacelab)

. . Atmospheric General Circulation . Experiment

. . geophysical fluid flow cells Solar Cell Calibration Facility

aircraft performance

aircraft specifications

annular suspension and pointing system

Apollo Lunar Surface Experiments

Package asteroid capture

EASEP

German Infrared Laboratory

instrument packages LIRTS (telescope)

loading loads (forces)

passengers

payload assist module

payload control

payload delivery (STS)

payload deployment & retrieval

system

payload integration payload integration plan payload stations piggyback systems

Space Processing Applications

Rocket space transportation

space tugs spaceborne experiments

warheads ∞ weight

weight (mass)

PBB

USE polybrominated biphenyls

PBRE (reactors)

USE pebble bed reactors

PCB

USE polychlorinated biphenyls

PCM (materials)

USE phase change materials

PCM (modulation)

USE pulse code modulation

**PCM** telemetry

telecommunication

. telemetry
. . PCM telemetry

transmission

. signal transmission

. . telemetry

. PCM telemetry

differential pulse code modulation pulse code modulation

PD-808 aircraft

Douglas PD-808 aircraft

Piaggio-Douglas PD-808 aircraft

jet aircraft

PD-808 aircraft light aircraft

PD-808 aircraft

McDonnell Douglas aircraft

. Douglas aircraft . PD-808 aircraft

monoplanes

PD-808 aircraft

Piaggio aircraft
PD-808 aircraft

RT ∞ aircraft

passenger aircraft

PDE (engines)

(added March 2001)

USE pulse detonation engines

PDM (modulation)

USE pulse duration modulation

PDP 7 computer

GS data processing equipment

. computers

. . digital computers

... PDP computers

. PDP 7 computer PDP 9 computer

PDP 8 computer

GS data processing equipment

. computers

. . digital computers

... PDP computers

.... PDP 8 computer

PDP 9 computer

GS data processing equipment . computers

. . digital computers

... PDP computers

PDP 9 computer

RT PDP 7 computer

PDP 10 computer

UF System 10 computer
GS data processing equipment

. computers

. . digital computers . . . PDP computers

.... PDP 10 computer

PDP 11 computer

GS data processing equipment computers

. . digital computers

... PDP computers
... PDP 11 computer

PDP 11/20 computer

GS data processing equipment

. computers

. . digital computers

... PDP computers .... PDP 11/20 computer

PDP 11/40 computer

data processing equipment

. computers

. . digital computers

... PDP computers

.... PDP 11/40 computer

PDP 11/45 computer

GS data processing equipment

. computers

. . digital computers

... PDP computers

PDP 11/50 computer

GS data processing equipment

. computers

. . digital computers . . . PDP computers

.... PDP 11/50 computer

PDP 11/70 computer

GS data processing equipment

. computers . . digital computers

... PDP computers

PDP 12 computer

GS data processing equipment

. computers . . digital computers

... PDP computers .... PDP 12 computer

PDP 15 computer

GS data processing equipment

|   | . computers   | . chemical fuels   | Hall effect   |
|---|---|--|---|
|   | digital computers   | hydrocarbon fuels  |   |
|   | PDP 15 computer   | fossil fuels<br><b>peat</b>  | pediments   |
| PDP co  | mputers   | organic materials  | USE piedmonts   |
|   | data processing equipment   | . peat   | pediplains  |
|   | . computers   | resources  | USE piedmonts   |
|   | digital computers   | . Earth resources  | <b>,</b>  |
|   | PDP computers PDP 7 computer  | fossil fuels   | pedology  |
|   | PDP 8 computer  | <b>peat</b><br>RT coal   | USE soil science  |
|   | PDP 9 computer  | sediments  |   |
|   | PDP 10 computer   | Scaments   | PEEK  |
|   | PDP 11 computer   |  | DEF A class of semicrystalline polymers   |
|   | PDP 11/20 computer  | pebble bed reactors  | called polyayrlene ethers for use as molding compounds and for use as composite matrix  |
|   | PDP 11/40 computer  | UF PBRE (reactors)   | materials. Used for polyetheretherketones.  |
|   | PDP 11/45 computer PDP 11/50 computer   | GS nuclear reactors  | UF polyetheretherketones  |
|   | PDP 11/70 computer  | pebble bed reactors  | GS plastics   |
|   | PDP 12 computer   | RT reactor design  | . synthetic resins  |
|   | •   | reactor technology   | polyether resins  |
|   | engines)  |  | PEEK  |
|   | ed March 2001)  | Peclet number  | thermoplastic resins<br><b>PEEK</b>   |
| USE   | pulse detonation engines  | DEF A nondimensional numb  |   |
| PDS (sr   | pectroscopy)  | problems of heat transfer in fluids.   |   |
|   | ed November 1998)   | GS dimensionless numbers   | polyether resins  |
|   | photothermal deflection   | . Peclet number  | PEEK  |
|   | spectroscopy  | ratios   | thermoplastic resins  |
|   |   | Peclet number  | PEEK  |
|   | (engines)   | RT advection   | RT carbon fiber reinforced plastics   |
|   | ed March 2001)  | heat transfer<br>Prandtl number  | ethers<br>ketones   |
| USE   | pulse detonation engines  | Reynolds number  | polymer matrix composites   |
| Peaceke   | eeper missile   | thermal diffusion  | resin matrix composites   |
|   | MX missile  |  | · · · · · · · · · · · · · · · · · · ·   |
|   |   |  | peeling   |
| peaceti   |   | peculiar galaxies  | RT adhesion   |
| RT  | electronic warfare  | (added November 1988)  | cutting   |
|   | histories   | GS celestial bodies  | debonding (materials)   |
|   | international cooperation international law   | . galaxies   | delaminating  |
|   | warfare   | peculiar galaxies  | flaking<br>mechanical properties  |
|   | wanare  | RT elliptical galaxies   | shedding  |
|   |   |  |   |
| peaks   |   | galactic structure   |   |
| <b>peaks</b><br>SN  | (USE OF A MORE SPECIFIC TERM IS   | galactic structure spiral galaxies   | ∞ stripping   |
| •   | RECOMMENDEDCONSULT THE TERMS  | <u> </u>   | ∞ stripping   |
| SN  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | spiral galaxies  | ∞ stripping peening   |
| •   | RECOMMENDEDCONSULT THE TERMS  | spiral galaxies peculiar stars   | ∞ stripping  peening  GS metal finishing  |
| SN  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes   | spiral galaxies  peculiar stars  DEF Stars with spectra that ca  | ∞ stripping  peening  GS metal finishing  annot be con-  peening  |
| SN  | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>apexes<br>extremum values  | spiral galaxies peculiar stars   | peening  GS metal finishing annot be conducted spectral by a "5" after  peening shot peening by a "5" after  RT cold working  |
| SN  | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>apexes<br>extremum values<br>maxima  | peculiar stars DEF Stars with spectra that ca veniently fitted into any of the stan classifications. They are denoted their spectral type.   | peening  GS metal finishing  annot be con- dard spectral by a "p" after  peening  should be con- cold working hardening (materials)   |
| . SN<br>RT  | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>apexes<br>extremum values<br>maxima<br>mountains<br>plateaus   | peculiar stars DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type. GS celestial bodies  | peening  GS metal finishing  annot be con- idard spectral by a "p" after  RT cold working hardening (materials) metal working   |
| SN RT peaks (   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus andforms)   | peculiar stars DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type. GS celestial bodies . stars  | peening  GS metal finishing  annot be con- dard spectral by a "p" after  peening  should be con- cold working hardening (materials)   |
| RT  peaks (I  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus andforms) pinnacles   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars   | peening GS metal finishing peening GS metal finishing peening peening short spectral by a "p" after  RT cold working hardening (materials) metal working work hardening   |
| SN RT peaks (   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus landforms) pinnacles landforms  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars peculiar stars shell stars   | peening GS metal finishing peening annot be condard spectral by a "p" after  RT cold working hardening (materials) metal working work hardening  Pegasus air-launched booster   |
| RT  peaks (I  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus andforms) pinnacles   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars peculiar stars shell stars Sigma Orionis   | peening GS metal finishing peening GS metal finishing peening peening short spectral by a "p" after  RT cold working hardening (materials) metal working work hardening   |
| RT  peaks (I  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus andforms) pinnacles landforms . peaks (landforms)   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars peculiar stars shell stars   | peening GS metal finishing peening GS metal finishing peening |
| Peaks (IUF GS   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . peaks (landforms) . Pike's Peak (CO) mountains orography   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars shell stars Sigma Orionis symbiotic stars   | peening GS metal finishing peening GS metal finishing peening |
| Peaks (IUF GS   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms - peaks (landforms) - Pike's Peak (CO) mountains   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars shell stars Sigma Orionis symbiotic stars RT A stars  | peening GS metal finishing peening GS metal finishing peening short spectral by a "p" after  RT cold working hardening (materials) metal working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles   |
| Peaks (IUF GS RT  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . peaks (landforms) . Pike's Peak (CO) mountains orography   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted by their spectral type.  GS celestial bodies . stars . peculiar stars . shell stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars   | peening GS metal finishing peening GS metal finishing peening short spectral by a "p" after  RT cold working hardening (materials) metal working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles Pegasus air-launched booster  |
| Peaks (IUF GS RT  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . peaks (landforms) Pike's Peak (CO) mountains orography topography  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars shell stars Sigma Orionis symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra  | peening GS metal finishing peening GS metal finishing peening shot peening shot peening shot peening shot peening shot peening shot peening shot peening shot peening shot peening shot peening working hardening (materials) metal working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles Pegasus air-launched booster RT air launching  |
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| peaks (I<br>UF<br>GS<br>RT<br>Pearlite<br>DEF<br>cementin   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . Peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and ite. cementite ferrites iron alloys microstructure steels  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars . shell stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectrophotometry stellar structure  pedals RT levers  | peening GS metal finishing peening Symmetal finishing peening Symmetal finishing peening Symmetal spectral by a "p" after  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles Pegasus air-launched booster air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus computer   |
| peaks (IUF GS RT Pearlite DEF cementif RT   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . Peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and decementite ferrites iron alloys microstructure steels a distributions   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars . shell stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectrophotometry stellar structure  pedals RT levers  | peening GS metal finishing peening GS metal finishing peening shot peening shot peening narrow after  RT cold working hardening (materials) metal working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles Pegasus air-launched booster RT air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus computer Pegasus computer  Pegasus computer Pegasus computer   |
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| peaks (IUF GS RT Pearlite DEF cementif RT   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and te. cementite ferrites iron alloys microstructure steels a distributions functions (mathematics) . probability density functions statistical analysis . Pearson distributions statistical distributions statistical distributions statistical distributions  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectra stellar structure  pedals  RT levers manual control  Pedersen currents (added December 2001) DEF lonic currents flowing par spheric conductive electric fields. GS electric currents   | peening GS metal finishing peening GS metal finishing peening Shot peening Shot peening Shot peening Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles multistage rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus |
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| peaks (IUF GS RT Pearlite DEF cementif RT   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and te. cementite ferrites iron alloys microstructure steels a distributions functions (mathematics) . probability density functions statistical analysis . Pearson distributions statistical distributions statistical distributions statistical distributions  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectra stellar spectrophotometry stellar structure  pedals  RT levers manual control  Pedersen currents (added December 2001) DEF lonic currents flowing par spheric conductive electric fields. GS electric current . ionospheric currents electricity . atmospheric electricity   | peening GS metal finishing peening Ss metal finishing peening Shot peening Shot peening Shot peening Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster rocket vehicles Pegasus air-launched booster air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus computer  Pegasus computer  Pegasus engine USE Bristol-Siddeley BS 53 engine  Pegasus satellites GS artificial satellites RT Saturn project  pelagic zone   |
| peaks (IUF GS RT Pearlite DEF cementiir RT Pearsor GS   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . Peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and de. cementite ferrites iron alloys microstructure steels  a distributions functions (mathematics) . Pearson distributions statistical analysis . Pearson distributions statistical distributions . Pearson distributions statistical distributions . Pearson distributions . Pearson distributions . Pearson distributions . Pearson distributions . Pearson distributions   | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars . shell stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectra stellar structure  pedals  RT levers manual control  Pedersen currents (added December 2001) DEF lonic currents flowing parspheric conductive electric fields. GS electric currents . Pedersen currents electricity  | peening GS metal finishing peening GS metal finishing peening shot peening Not peening Pegaus air-launched working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles nultistage rocket vehicles Pegasus air-launched booster RT air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus engine USE Bristol-Siddeley BS 53 engine  Pegasus satellites GS artificial satellites RT Saturn project  Pelagic zone GS regions  |
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| peaks (IUF GS RT Pearlite DEF cementif RT Pearson GS Peat DEF duced for tegration   | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus  andforms) pinnacles landforms . Peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and ie. cementite ferrites iron alloys microstructure steels in distributions functions (mathematics) . probability density functions . Pearson distributions statistical analysis . Pearson distributions . Pearson distributions statistical distributions . Pearson distributions . Pearson distributions . Pearson distributions . Pearson distributions  Dark brown or black residuum pro- om the partial decomposition and disin-                              | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted their spectral type.  GS celestial bodies . stars . peculiar stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectra stellar spectrophotometry stellar structure  pedals  RT levers manual control  Pedersen currents (added December 2001) DEF lonic currents flowing par spheric conductive electric fields. GS electric current . ionospheric currents electricity . atmospheric electricity . ionospheric currents ion currents . Pedersen currents ion currents . Pedersen currents . Pedersen currents . Pedersen currents . Pedersen currents . Pedersen currents . Pedersen currents . Pedersen currents . Pedersen currents  | peening GS metal finishing peening GS metal finishing peening shot peening RT cold working work hardening (materials) metal working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles Multistage rocket vehicles Multistage rocket vehicles Pegasus air-launched booster RT air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus engine USE Bristol-Siddeley BS 53 engine  Pegasus satellites GS artificial satellites RT Saturn project  pelagic zone GS regions pelagic zone RT oceanography  pellets  |
| peaks (IUF GS RT Pearsot GS Peat DEF duced for tegration plants to places.  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus landforms) pinnacles landforms . peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and le. cementite ferrites iron alloys microstructure steels  In distributions functions (mathematics) . probability density functions . Pearson distributions statistical analysis . Pearson distributions statistical distributions  The pearson distributions  Dark brown or black residuum proom the partial decomposition and disinate for mosses, hedges, trees, and other that grow in marshes and other wet  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted by their spectral type.  GS celestial bodies . stars . peculiar stars . peculiar stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectra stellar spectrophotometry stellar structure  pedals  RT levers manual control  Pedersen currents (added December 2001) DEF lonic currents flowing par spheric conductive electric fields. GS electric current . ionospheric currents electricity . atmospheric electricity . ionospheric currents . Pedersen currents ion currents . Pedersen currents RT auroral zones  | peening GS metal finishing peening GS metal finishing peening Shot peening Not peening Pegaus air-launched working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles Multistage rocket vehicles Multistage rocket vehicles Pegasus air-launched booster RT air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus computer  Pegasus engine USE Bristol-Siddeley BS 53 engine  Pegasus satellites GS artificial satellites RT Saturn project  Pelagic zone GS regions pelagic zone RT oceanography  Pellets RT briquets   |
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| peaks (IUF GS RT Pearsot GS Peat DEF duced for tegration plants to places.  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) apexes extremum values maxima mountains plateaus landforms) pinnacles landforms . peaks (landforms) . Pike's Peak (CO) mountains orography topography  An aggregate in steel of ferrite and le. cementite ferrites iron alloys microstructure steels  In distributions functions (mathematics) . probability density functions . Pearson distributions statistical analysis . Pearson distributions statistical distributions  The pearson distributions  Dark brown or black residuum proom the partial decomposition and disinate for mosses, hedges, trees, and other that grow in marshes and other wet  | peculiar stars  DEF Stars with spectra that caveniently fitted into any of the stan classifications. They are denoted by their spectral type.  GS celestial bodies . stars . peculiar stars . peculiar stars . sigma Orionis . symbiotic stars  RT A stars B stars hot stars magnetic stars stellar spectra stellar spectra stellar spectrophotometry stellar structure  pedals  RT levers manual control  Pedersen currents (added December 2001) DEF lonic currents flowing par spheric conductive electric fields. GS electric current . ionospheric currents electricity . atmospheric electricity . ionospheric currents . Pedersen currents ion currents . Pedersen currents RT auroral zones  | peening GS metal finishing peening GS metal finishing peening Shot peening Not peening Pegaus air-launched working work hardening  Pegasus air-launched booster (added May 1990) GS launch vehicles Pegasus air-launched booster rocket vehicles Multistage rocket vehicles Multistage rocket vehicles Pegasus air-launched booster RT air launching B-52 aircraft X-43 vehicle  Pegasus computer GS data processing equipment computers Pegasus computer  Pegasus engine USE Bristol-Siddeley BS 53 engine  Pegasus satellites GS artificial satellites RT Saturn project  Pelagic zone GS regions pelagic zone RT oceanography  Pellets RT briquets   |

| ∞ shot   | drilling   | RT      | Allegheny Plateau (US)          |
|--|--|---------|---------------------------------|
|  | fragmentation  |         | Delaware Bay (US)               |
| pellicle   | hydrodynamic ram effect  |         | Delaware River Basin (US)       |
| RT thin films  | impact   |         | Ohio River (US)                 |
| pelomyxa   | nuclear vulnerability  |         | Susquehanna River Basin         |
| GS animals   | percolation<br>perforating   |         | (MD-NY-PA)                      |
| . protozoa   | permeability   | ∞ pens  |                                 |
| amoeba   | permeating   | SN      | (USE OF A MORE SPECIFIC TERM IS |
| pelomyxa   | piercing   |         | RECOMMENDEDCONSULT THE TERMS    |
| microorganisms   | ∞ saturation   | UF      | LISTED BELOW) styluses          |
| . protozoa   | seepage  | RT      | enclosures                      |
| amoeba   | terminal ballistics  |         | recording instruments           |
| pelomyxa   | terrain following  |         |                                 |
| Peltier effects  | vulnerability  | pentab  |                                 |
| DEF The effects which result in the produc-  | penetration ballistics   | GS      | boron compounds                 |
| tion or absorption of heat at the junction of two                                  | USE terminal ballistics  |         | . boron hydrides boranes        |
| metals on the passage of an electrical current.                                    |  |         | pentaboranes                    |
| RT ∞ effects   | penetrometers  |         | hydrogen compounds              |
| Seebeck effect   | DEF Simple devices for measuring the pen-  |         | . hydrides                      |
| temperature effects<br>thermocouples   | etrating power of a beam of x rays or other  |         | boron hydrides                  |
| thermoedectric cooling   | penetrating radiation by comparing transmission  |         | boranes                         |
| thermoelectricity  | through various absorbers.   |         | pentaboranes                    |
| thermophysical properties  | GS measuring instruments . penetrometers   |         |                                 |
| . ,  | RT lunar soil  | pentaci | nlorides<br>chlorides           |
| pelvis   | TT Turisi Con  | USE     | cniorides                       |
| GS anatomy   | penicillin   | pentae  | rythritol tetranitrate          |
| . musculoskeletal system   | GS drugs   |         | PETN                            |
| bones<br><b>pelvis</b>   | . antibiotics  | 30=     |                                 |
| RT girdles   | penicillin   | pentan  | es                              |
| TCT girdios  | Penincular Panges (CA)   | GS      | organic compounds               |
| penalties  | Peninsular Ranges (CA) GS landforms  |         | . hydrocarbons                  |
| GS law (jurisprudence)   | . mountains  |         | aliphatic hydrocarbons          |
| . public law   | Peninsular Ranges (CA)   |         | alkanes                         |
| penalties  | RT California  |         | pentanes<br>neopentane          |
| RT air law   |  |         | neopentane                      |
| disciplining<br>judgments  | peninsulas   | pentan  | one                             |
| legal liability  | DEF Elongated bodies or stretches of land  | GS      | ketones                         |
| liabilities  | nearly surrounded by water and connected with<br>a larger land area, usually by a neck or an |         | pentanone                       |
| prohibition  | isthmus. The term is derived from the Latin  |         | organic compounds               |
| regulations  | 'paeninsula' "almost island."  | DT      | . pentanone                     |
| and the formation  | GS landforms   | RT      | acetone<br>acetylacetone        |
| penalty function   | . peninsulas   |         | acetylacetorie                  |
| DEF In mathematics, a function used in treating maxima and minima problems subject | Delmarva Peninsula (DE-MD-VA)  | pentob  | arbital                         |
| to restraints.   | RT isthmuses   | RT      | drugs                           |
| GS functions (mathematics)   | land   |         | narcotics                       |
| penalty function   | water  |         | sedatives                       |
| RT constraints   | Penning discharge  |         | autital andiom                  |
| ∞ functions  | DEF A direct current discharge where elec-   | GS      | arbital sodium<br>drugs         |
| maxima   | trons are forced to oscillate between two op-  | 63      | . pentobarbital sodium          |
| minima   | posed cathodes and are restrained from going   |         | reserpine                       |
| optimization   | to the surrounding anode by the presence of a  | RT      | Nembutal (trademark)            |
| pencil beams   | magnetic field.  |         | ,                               |
| GS beams (radiation)   | GS electric current  | pentod  |                                 |
| . pencil beams   | . electric discharges  | RT      | electron tubes                  |
| RT antenna design  | <b>Penning discharge</b> RT electrodeless discharges   |         | semiconductor devices           |
| antenna radiation patterns   | gas ionization   |         | tetrodes                        |
| radar beams  | ion motion   |         | transistors vacuum tubes        |
| nondulous guranoonas   | plasma generators  |         | vacuum tubes                    |
| pendulous gyroscopes USE gyroscopic pendulums                                      |  | pentoli | te                              |
| gyroscopic pendulums   | Penning effect   | GS      | explosives                      |
| pendulums  | DEF An increase in the effective ionization  |         | . pentolite                     |
| GS oscillators   | rate of a gas due to the presence of a small   |         | propellants                     |
| . mechanical oscillators   | number of foreign metastable atoms.  |         | . pentolite                     |
| pendulums  | RT ∞ effects<br>gas ionization   |         |                                 |
| gyroscopic pendulums   | laser cooling  | pentos  | organic compounds               |
| RT accelerometers gravitation  | metastable atoms   | 00      | . carbohydrates                 |
| momentum   |  |         | sugars                          |
| oscillations   | Penning gages  |         | monosaccharides                 |
| timing devices   | GS measuring instruments   |         | pentose                         |
|  | . pressure gages   |         | ribose                          |
| penetrants   | vacuum gages   |         | xylose                          |
| RT ∞ agents  | ionization gages<br><b>Penning gages</b>   | penum   | hrae                            |
| preservatives<br>retardants  | vacuum apparatus   |         | shadows                         |
| retaruants   | . vacuum gages   |         | . penumbras                     |
| penetrating particles  | ionization gages   | RT      |                                 |
| USE corpuscular radiation  | Penning gages  | ·       | umbras                          |
| •  |  |         |                                 |
| penetration  | Pennsylvania   |         | satellites                      |
| DEF The depths to which one material ex-   | GS nations   | GS      | artificial satellites           |
| tends into or penetrates another.  | . United States  |         | . French satellites             |
| RT diffusion   | Pennsylvania   |         | PEOLE satellites                |

| RT                  | geophysical satellites                         |           | vision   |               | stended to the analysis of some problems       |
|---------------------|--|-----------|--|---------------|--|
| D/                  | Demonstration Demonstrate of Commencer         | percept   | rons   | in acou<br>UF | stics.  PML (electromagnetism)                 |
|                     | S Democratic Republic of Germany  East Germany | USE       |  | GS            | conditions                                     |
|                     |  | percep    | tual errors  |               | . boundary conditions perfectly matched layers |
| pepper              |  |           | Deviations from accuracy in the per-               | RT            | computational electromagnetics                 |
| KI °                | ∘ food   |           | of objects, shapes, colors, weights, etc.,         |               | computational grids                            |
|                     |  |           | the use of the senses.                             |               | electromagnetic absorption                     |
| <b>pepsin</b><br>GS | biopolymers                                    | RT        | display devices                                    |               | electromagnetic scattering                     |
| 00                  | . proteins                                     |           | visual perception visual stimuli                   |               | finite difference theory                       |
|                     | enzymes  |           | visuai stiiriuii                                   |               | finite element method Maxwell equation         |
|                     | pepsin   | percep    | tual time constant                                 |               | Maxwell equation                               |
|                     | organic compounds                              | GS        |  | perfluo       | ro compounds                                   |
|                     | . proteins                                     |           | . time constant                                    | GS            | perfluoro compounds                            |
|                     | enzymes  |           | perceptual time constant                           |               | . perfluoroalkane                              |
|                     | pepsin   | RT        | perception   |               | . perfluoroguanidine                           |
| RT                  | papain   |           | reaction time                                      | -             |  |
|                     |  |           | sense organs                                       | •             | roalkane                                       |
| peptide             |  |           | sensorimotor performance velocity                  | GS            | halogen compounds . fluorine compounds         |
| GS                  | organic compounds . peptides                   |           | velocity   |               | fluoro compounds                               |
|                     | . polypeptides                                 | perchlo   | orates   |               | difluoro compounds                             |
|                     | angiotensins                                   | . GS      | halogen compounds                                  |               | perfluoroalkane                                |
|                     | glutathione                                    |           | chlorine compounds                                 |               | fluorine organic compounds                     |
|                     | hypertensin                                    |           | perchlorates                                       |               | perfluoroalkane                                |
|                     | vasopressins                                   |           | aluminum perchlorates                              |               | organic compounds                              |
| RT                  | amino acids                                    |           | ammonium perchlorates                              |               | . fluorine organic compounds                   |
|                     | aspartic acid                                  |           | hydrazine perchlorates                             |               | perfluoroalkane                                |
|                     | proteins                                       |           | hydrogen perchlorate hydroxylammonium perchlorates |               | perfluoro compounds                            |
|                     |  |           | lithium perchlorates                               |               | . perfluoroalkane                              |
| percent             |  |           | magnesium perchlorates                             | perfluo       | roguanidine                                    |
| USE                 | ratios   |           | nitronium perchlorate                              |               | halogen compounds                              |
|                     |  |           | potassium perchlorates                             |               | . fluorine compounds                           |
| percept             |  | RT        | chlorates  |               | fluoro compounds                               |
| GS                  | perception                                     |           | perchloric acid                                    |               | fluorine organic compounds                     |
|                     | . binaural hearing                             |           |  |               | perfluoroguanidine                             |
|                     | . motion perception . sensory perception       | •         | oric acid  |               | organic compounds                              |
|                     | . auditory perception                          | GS        | acids . perchloric acid                            |               | . fluorine organic compounds                   |
|                     | consciousness                                  | RT        | perchlorates                                       |               | perfluoroguanidine<br>perfluoro compounds      |
|                     | extrasensory perception                        |           | poromoratos  |               | . perfluoroguanidine                           |
|                     | kinesthesia                                    | perchlo   | oryl fluorides                                     | RT            | guanidines                                     |
|                     | olfactory perception                           | GS        | halogen compounds                                  |               | 9  |
|                     | pain   |           | . fluorine compounds                               | perfora       | ited plates                                    |
|                     | pain sensitivity                               |           | fluorides  | GS            |  |
|                     | proprioception                                 |           | perchloryl fluorides                               |               | . plates (structural members)                  |
|                     | autokinesis                                    |           | . halides  | DT            | perforated plates                              |
|                     | taste  |           | fluorides<br>perchloryl fluorides                  | RT            | anisotropic plates                             |
|                     | tactile discrimination                         |           | percinoryi nuoriues                                |               | cavities hole geometry (mechanics)             |
|                     | vertical perception                            | percola   | ntion  |               | holes (mechanics)                              |
|                     | vibration perception                           | RT        | beds (process engineering)                         |               | openings                                       |
|                     | visual perception                              |           | concentrating                                      | c             | ∞ perforation                                  |
|                     | critical flicker fusion                        |           | diffusion  |               | porous boundary layer control                  |
|                     | space perception                               |           | extraction   |               | stress concentration                           |
|                     | autokinesis                                    |           | filtration   |               |  |
|                     | visual discrimination                          |           | interstices  |               | ited shells                                    |
|                     | gravity perception                             |           | leaching   | GS            | shells (structural forms)                      |
| RT                  | . sound localization acuity                    |           | lysimeters penetration                             | RT            | . perforated shells arches                     |
| 111                 | adaptation                                     |           | permeability                                       | 13.1          | cavities                                       |
|                     | artificial intelligence                        |           | permeating   |               | enclosures                                     |
|                     | character recognition                          |           | seepage  |               | fairings                                       |
|                     | cognition                                      | c         | separation   |               | hole distribution (mechanics)                  |
|                     | color  |           | voids  |               | hole geometry (mechanics)                      |
|                     | contrast                                       | _         |  |               | holes (mechanics)                              |
|                     | electrocutaneous communication                 |           | method   |               | housings                                       |
|                     | frequency response identifying                 | KI        | flow equations integral equations                  |               | hulls (structures)                             |
|                     | illusions                                      |           | o methodology                                      |               | membrane structures nacelles                   |
|                     | images   |           | · methodology                                      | c             | ∞ perforation                                  |
|                     | information processing (biology)               | percus    | sion   |               | pressure vessel design                         |
| ۰                   | interpretation                                 | RT        | detonation   |               | rocket engine cases                            |
|                     | knowledge                                      |           | impact   |               | shell theory                                   |
|                     | legibility                                     |           | physical examinations                              |               | stress concentration                           |
|                     | monocular vision                               |           | primers (explosives)                               |               | 41   |
|                     | perceptual time constant                       | m = == 4  | and a  | perfora       |  |
|                     | reading resolution                             | perfect   | gas<br>ideal gas                                   | RT            | burnthrough (failure)                          |
|                     | retinal adaptation                             | USE       | ideal yas  |               | cutting<br>drilling                            |
|                     | sensitivity                                    | perfect   | ly matched layers                                  |               | formations                                     |
|                     | sensory deprivation                            |           | ed July 1998)                                      |               | fracturing                                     |
|                     | sensory feedback                               |           | In the area of computational electro-              |               | gas injection                                  |
|                     | situational awareness                          | magnet    | ism, an absorbing boundary condition               |               | injection                                      |
|                     | symbols  |           | r terminating infinite domain calculations         |               | metal cutting                                  |
|                     | thresholds (perception)                        |           | inite-difference time-domain (FDTD) or             |               | metal working                                  |
|                     | visibility                                     | finite el | ement methods. The approach has also               |               | penetration                                    |

| 0        | perforation                     |          | magnesium compounds                    |           | . periodic variations                   |
|----------|---------------------------------|----------|--|-----------|---|
|          | piercing                        |          | . magnesium oxides                     |           | alternations                            |
|          | water injection                 |          | periclase                              |           | annual variations                       |
|          | water injection                 |          | poriolaco                              |           | diurnal variations                      |
|          | 4iam                            |          | to.                                    |           |   |
| perfora  |                                 | peridoti |  |           | intraseasonal variations                |
| SN       | (USE OF A MORE SPECIFIC TERM IS | UF       | kimberlite                             |           | nocturnal variations                    |
|          | RECOMMENDEDCONSULT THE TERMS    | GS       | rocks                                  |           | secular variations                      |
|          | LISTED BELOW)                   |          | . igneous rocks                        |           | Madden-Julian Oscillation               |
| RT       | cavities                        |          |  |           |   |
|          | holes (mechanics)               |          | peridotite                             |           | quasi-biennial oscillation              |
|          | perforated plates               | RT       | chromites                              | RT        | autocorrelation                         |
|          |                                 |          | dunite                                 |           | cataclysmic variables                   |
|          | perforated shells               |          | olivine                                |           |   |
|          | perforating                     |          |  |           | climatology                             |
|          | piercing                        |          | regolith                               |           | cycles                                  |
|          |                                 |          | soils                                  |           | dendrochronology                        |
| perforn  | nance                           |          |  |           | el Nino                                 |
| SN       |                                 | periaee- | apogee satellites                      |           | extrapolation                           |
| SIN      | (USE OF A MORE SPECIFIC TERM IS | USE      |  |           |   |
|          | RECOMMENDEDCONSULT THE TERMS    | OOL      | 140                                    |           | Fourier analysis                        |
| DT       | LISTED BELOW)                   |          |  |           | long term effects                       |
| RT       | aircraft performance            | perigee  |  |           | oscillations                            |
|          | astronaut performance           | DEF      | Those orbital points nearest the Earth |           | oscillators                             |
|          | comfort                         | when th  | e Earth is the center of attraction.   |           |   |
|          | complexity                      | GS       | apsides                                |           | polar wandering (geology)               |
|          | computer systems performance    | 00       |  |           | regularity                              |
|          |                                 |          | . perigees                             | ۰         | ∘ rhythm                                |
|          | consistency                     | RT       | apogees                                |           | semiregular variable stars              |
|          | efficiency                      |          | Earth orbits                           |           |   |
|          | effort                          |          | elliptical orbits                      |           | Southern Oscillation                    |
|          |                                 |          | •                                      |           | trends                                  |
|          | environments                    |          | orbits                                 |           | variability                             |
|          | evaluation                      |          | perilunes                              |           | variable stars                          |
|          | examination                     |          |  |           | variable stats                          |
|          | fatigue (biology)               | periheli | ons                                    |           |   |
|          |                                 |          |  | periodi   | cals                                    |
|          | figure of merit                 | DEF      | Those points in solar orbits which are | UF        | journals (documents)                    |
|          | flight characteristics          | nearest  | the sun.                               |           |   |
|          | human factors engineering       | GS       | apsides                                | GS        | documents                               |
|          | human performance               |          | . perihelions                          |           | . periodicals                           |
|          |                                 |          | •                                      | RT 。      | ∞ journals                              |
|          | long term effects               | RT       | aphelions                              | 1(1 •     |   |
|          | mental performance              |          | elliptical orbits                      |           | records                                 |
|          | modulation transfer function    |          | orbital elements                       |           |   |
|          |                                 |          |  | periodio  | ritv                                    |
|          | observation                     |          | orbits                                 | ,         | ,                                       |
|          | operator performance            |          | solar orbits                           | USE       | periodic variations                     |
|          | optical transfer function       |          |  |           |   |
|          | output                          | perilune | es                                     | periodio  | city (biology)                          |
|          |                                 | GS       |  |           |   |
|          | performance tests               | GS       | apsides                                | USE       | rhythm (biology)                        |
|          | pilot performance               |          | . perilunes                            |           |   |
|          | postflight analysis             | RT       | lunar orbits                           | periphe   | eral circulation                        |
|          |                                 |          | lunar satellites                       |           |   |
|          | propulsion system performance   |          |  | GS        | circulation                             |
|          | quality                         |          | perigees                               |           | . blood circulation                     |
|          | ratings                         |          |  |           | peripheral circulation                  |
|          |                                 | period ( | doubling                               |           |   |
|          | reliability                     | •        | The bifurcation of a nonlinear system  |           |   |
|          | spacecraft performance          |          |  | periphe   | eral equipment (computers)              |
|          | standards                       |          | stable periodic cycles on its route to | SN        | (EXCLUDES COMPUTER-CONTROLLED           |
|          | task complexity                 | chaotic  | turbulence.                            | 011       | EQUIPMENT)                              |
|          |                                 | GS       | branching (mathematics)                | DEF       | Equipment that works in conjunction     |
|          | training evaluation             | 00       |  |           |   |
|          |                                 |          | . period doubling                      |           | computer but is not part of the compute |
| perform  | nance prediction                | RT       | chaos                                  | itself. C | ard or paper-tape readers or punches    |
| GS       | predictions                     |          | periodic functions                     |           | ic tape handlers, or line printers are  |
| 00       | •                               |          | transition flow                        |           | items of peripheral equipment.          |
|          | performance prediction          |          |  |           |   |
| RT       | evaluation                      |          | turbulence                             | UF        | auxiliary equipment (computers)         |
|          | management                      |          | turbulent flow                         | GS        | computer components                     |
|          | prediction analysis techniques  |          |  |           | peripheral equipment (computers)        |
|          | ' '                             | narind a | aquations                              |           | ,                                       |
|          | reliability                     |          | equations                              |           | . printers (data processing)            |
|          | reliability analysis            | USE      | periodic functions                     |           | remote consoles                         |
|          | reliability engineering         |          |  |           | data processing equipment               |
|          |                                 | periodic | functions                              |           |   |
|          | trend analysis                  | UF       |  |           | peripheral equipment (computers)        |
|          |                                 |          | period equations                       |           | printers (data processing)              |
| perform  | nance tests                     | GS       | analysis (mathematics)                 |           | remote consoles                         |
| SN       | (APPLY ONLY TO OPERATING        |          | . real variables                       | RT        | analog to digital converters            |
| 014      | EQUIPMENT)                      |          | periodic functions                     | 13.1      |   |
| RT       | accelerated life tests          |          | trigonometric functions                |           | computer storage devices                |
| 13.1     |                                 |          | 0                                      |           | computer systems design                 |
|          | acceptability                   |          | cosine series                          |           | data processing                         |
|          | certification                   |          | sine series                            |           | digital to analog converters            |
|          | checkout                        |          |  |           |   |
|          |                                 |          | tangents                               | ٥         | ∞ equipment                             |
|          | computer systems performance    |          | functions (mathematics)                |           | magnetic disks                          |
|          | field tests                     |          | . transcendental functions             |           | magnetic tapes                          |
|          | hardware-in-the-loop simulation |          | periodic functions                     |           |   |
|          | inspection                      |          |  |           | modems                                  |
|          |                                 |          | trigonometric functions                |           | plotters                                |
| 0        | performance                     |          | cosine series                          |           |   |
|          | space vehicle checkout program  |          | sine series                            |           | aral iot flaw                           |
|          | specifications                  |          | tangents                               |           | eral jet flow                           |
|          | standards                       | DT       |  | GS        | fluid flow                              |
|          |                                 | RT       | Floquet theorem                        |           | . jet flow                              |
| 0        | ∘ tests                         |          | Fourier analysis                       |           | peripheral jet flow                     |
|          |                                 |          | period doubling                        | DT        |   |
| perfusio | on                              |          |  | RT        | downwash                                |
| USE      |                                 | nariadia | orhite                                 |           | ground effect (aerodynamics)            |
| JUL      | diridolori                      | periodic |  |           | ground effect machines                  |
|          |                                 | USE      | orbits                                 |           | •                                       |
| periclas |                                 |          |  |           | lift augmentation                       |
| GS       | chalcogenides                   | periodic | processes                              |           |   |
|          | . oxides                        |          | cycles                                 | perinhe   | eral nervous system                     |
|          |                                 | USL      | 0,0.00                                 |           |   |
|          | metal oxides                    |          |  | GS        | anatomy                                 |
|          | alkaline earth oxides           |          | variations                             |           | . nervous system                        |
|          | magnesium oxides                | UF       | periodicity                            |           | peripheral nervous system               |
|          | periclase                       | GS       | variations                             | RT        | neuromuscular transmission              |
|          | por rotaco                      |          |  | 17.1      |   |

|           | avatama.  |         | infiltration                          |              | Develop missile                                |
|-----------|---|---------|---------------------------------------|--------------|--|
| c         | ∞ systems   |         | infiltration                          |              | Pershing missile                               |
| nerinhe   | eral vision   |         | interstices<br>leaching               |              | . surface to surface missiles Pershing missile |
| GS        | vision  |         | leakage                               | RT           |  |
| 00        | . peripheral vision   |         | mechanical properties                 | 13.1         | solid propellant rocket engines                |
| RT        | space perception  |         | penetration                           |              | Solid propolitant rocket engines               |
|           | visual acuity   |         | percolation                           | Persiar      | n Gulf   |
|           | visual fields   |         | permeating                            | GS           | gulfs  |
|           |   |         | ∞ physical properties                 |              | . Persian Gulf                                 |
| periphe   | ries  |         | porosity                              | RT           | inlets (topography)                            |
| USE       | boundaries  |         | ∞ resistance                          |              |  |
|           |   |         | seepage                               | person       | al computers                                   |
| perisco   | ppes  |         | surface properties                    | GS           | data processing equipment                      |
| DEF       | Optical instruments which displace the  |         | void ratio                            |              | . computers                                    |
| line of   | sight parallel to itself to permit a view   |         | voids                                 |              | digital computers                              |
| which n   | nay otherwise be obstructed.  |         | wettability                           |              | microcomputers                                 |
| GS        | optical equipment   |         | •                                     |              | personal computers                             |
|           | . periscopes  | perme   | ating                                 |              | IBM personal computers                         |
| RT        | binoculars  | RT      | absorption                            |              | Macintosh personal computers                   |
|           | eyepieces   |         | desorption                            | RT           | computer techniques                            |
|           | optical measuring instruments   |         | dialysis                              |              | VSAT (network)                                 |
|           | telescopes  |         | diffusion                             |              | _  |
|           | viewing   |         | dispersing                            | person       |  |
|           |   |         | impregnating                          | RT           | depersonalization                              |
| periton   |   |         | osmosis                               |              | personnel selection                            |
| GS        | anatomy   |         | penetration                           |              | -114   |
|           | . peritoneum  |         | percolation                           | •            | ality tests                                    |
|           | membranes   |         | permeability                          | RT           | intelligence tests                             |
| D.T.      | . peritoneum  |         | porosity                              |              | psychological tests<br>psychometrics           |
| RT        | abdomen   |         | reverse osmosis                       |              | . ,  |
|           | epithelium  |         | ∞ saturation                          |              | qualifications                                 |
|           | tissues (biology)   |         | sorption                              | c            | ∞ tests  |
|           | viscera   |         | transpiration                         | norcon       | nol  |
|           |   |         |                                       | person<br>GS |  |
| permaf    |   | permis  | •                                     | 03           | personnel                                      |
|           | Any soil, subsoil or other surficial de-  | RT      | compatibility                         |              | . air traffic controllers (personnel) . crews  |
|           | or even bedrock, occurring in arctic or   |         | psychological factors                 |              | . flight crews                                 |
|           | ic regions at a variable depth beneath  |         |                                       |              | •  |
|           | th's surface in which a temperature be-   | permit  |                                       |              | spacecrews                                     |
|           | ezing has existed continuously for a long   | UF      | dielectric constant                   |              | . enemy personnel . engineers                  |
|           | sed for frozen soils.   | GS      | electrical properties                 |              | . flying personnel                             |
| GS        | frozen soils  |         | . dielectric properties               |              | astronauts                                     |
| GS        | soils   | рт      | permittivity                          |              | orbital workers                                |
| RT        | . permafrost<br>aufeis (ice)  | KI      | dielectric loss                       |              | cosmonauts                                     |
| IXI       | Earth cryosphere  |         | electric fields                       |              | flight crews                                   |
|           | planetary cryospheres   |         | field strength                        |              | spacecrews                                     |
|           | polar regions   | nermu   | tations                               |              | pilots (personnel)                             |
|           | polal regions   | GS      | analysis (mathematics)                |              | aircraft pilots                                |
| Permal    | loys (trademark)  | 00      | . combinatorial analysis              |              | test pilots                                    |
| GS        | alloys  |         | permutations                          |              | . ground crews                                 |
| 00        | . Permalloys (trademark)  | RT      | ∞ combination                         |              | . instructors                                  |
|           | magnetic materials  |         | combinations (mathematics)            |              | . medical personnel                            |
|           | . ferromagnetic materials   |         | partitions (mathematics)              |              | flight nurses                                  |
|           | Permalloys (trademark)  |         | set theory                            |              | physicians                                     |
| RT        | iron alloys   |         | 55t a.55t.y                           |              | surgeons                                       |
|           | magnets   | perovs  | skites                                |              | flight surgeons                                |
|           | molybdenum alloys   | DEF     |                                       |              | . navigators                                   |
|           | nickel alloys   | and the | e general formula ABX3 where A and B  |              | . operators (personnel)                        |
|           | permanent magnets   | are me  | etals and X is a nonmetal, usually O. |              | pilots (personnel)                             |
|           |   | GS      | calcium compounds                     |              | aircraft pilots                                |
| permar    | nent magnets  |         | . perovskites                         |              | test pilots                                    |
| GS        | magnets   |         | minerals                              |              | . military personnel                           |
|           | . permanent magnets   |         | perovskites                           |              | . police                                       |
| RT        | ferrimagnets  |         | titanium compounds                    |              | . programmers                                  |
|           | ferromagnetic materials   |         | . titanates                           |              | . scientists                                   |
|           | magnetic materials  |         | perovskites                           | RT «         | ∞ complement                                   |
|           | Permalloys (trademark)  |         |                                       |              | consulting                                     |
|           |   | peroxi  |                                       |              | crew experiment stations                       |
|           | nganates  | GS      | 8                                     |              | crew observation stations                      |
| GS        | manganese compounds   |         | . oxides                              |              | crew workstations                              |
|           | permanganates   |         | anhydrides                            |              | depersonalization                              |
| RT        | manganese ions  |         | peroxides                             |              | deployment                                     |
|           |   |         | inorganic peroxides                   |              | employee relations                             |
| permea    |   |         | hydrogen peroxide                     | c            | ∞ estimators                                   |
| SN<br>DEF | (EXCLUDES MAGNETIC PERMEABILITY)  |         | organic peroxides                     |              | helmet mounted displays human resources        |
|           | Of a magnetic material, the ratio of the  |         | potassium peroxides                   |              |  |
|           | ic induction to the magnetic field inten-<br>the same region. The ability to permit | RT      | sodium peroxides dioxides             |              | incentives<br>inhabitants                      |
|           | tions or passage. In this sense the term  | IXI     | GIONIGO                               |              | manpower                                       |
|           | ed particularly to substances which per-  | Parcoi  | d meteoroids                          |              | occupation                                     |
|           | etration or passage of fluids.  | GS      |                                       |              | organizing                                     |
| GS        | permeability  | 63      | . meteoroid showers                   |              | position (title)                               |
| 33        | . dielectric permeability   |         | Perseid meteoroids                    |              | qualifications                                 |
| RT        | aquifers  |         | . meteoroids                          |              | research management                            |
| IXI       | density (mass/volume)   |         | Perseid meteoroids                    |              | resources                                      |
|           | diffusion   |         | oroota motooronas                     |              | retirement                                     |
|           | diffusivity   | Pershi  | ng missile                            |              | retraining                                     |
|           | drainage  | GS      |                                       |              | services                                       |
|           | formations  |         | . ballistic missiles                  |              | unionization                                   |

wage surveys oscillators RT ∞ rockets radiation pressure personnel development Schach effect Petri nets RT ∞ development three body problem DEF Abstract, formal models of the informaemployee relations two body problem tion flow in systems with discrete sequential or human resources parallel events. The major use has been the variations management modeling of hardware systems and software resources concepts of computers. perturbation theory training analysis GS models disturbance theory . mathematical models perturbation theory personnel management . . Petri nets vinti theory GS management networks Boussinesq approximation . industrial management Petri nets celestial mechanics . personnel management consecutive events disturbing functions employee relations dynamic models Hansen lunar theory human relations graphs (charts) Hartree approximation human resources information theory Hill lunar theory leadership ∞ nets Hill method management planning sequencing many body problem operators (mathematics) trees (mathematics) personnel propulsion systems orbit perturbation self maneuvering units petrogenesis orbital elements (added August 1997) quantum theory personnel selection DEF Branch of petrology dealing with the strange attractors selection GS origin and formation of rocks, particularly igne-Taylor instability . personnel selection ous rocks. ∞ theories . pilot selection petrogeny von Zeipel method aptitude GS geology . petrology wave functions employment Wentzel-Kramer-Brillouin method intelligence tests . petrogenesis Yang-Mills fields geochronology labor Yang-Mills theory personality igneous rocks physical examinations magma Peru physiological tests meteorite parent bodies GS nations mineralogy personnel subsystems Peru origins industries RT South America petrography volcanology Perspex (trademark) perveance plastics The quotient of the space-chargepetrogeny (added August 1997) Perspex (trademark) limited cathode current by the three-halves USE petrogenesis power of the anode voltage in a diode. Note: perspiration Perveance is the constant G appearing in the sweating petrography Child-Langmuir-Schottky equation. body fluids geology GS body temperature petrology perveance evaporation petrography Child-Langmuir law excretion inliers (landforms) space charge feces thermionic diodes petrogenesis heat acclimatization rocks vacuum tubes humidity sedimentary rocks work functions Palmar sweat index siderophile elements skin (anatomy) pesticides sweat petroleum poisons transpiration USE crude oil . pesticides . . insecticides PERT petroleum products . . . Carbamates (tradename) DEF Materials derived from petroleum, natural gas, and asphalt deposits. Includes program evaluation review technique UF urethanes RT commerce . . . DDT contract management gasolines, diesel and heating fuels, lubricants, . . . dieldrin critical path method waxes, greases, petroleum coke, petrochemi-. . phenothiazines GERT cals, and sulfur. crop dusting environmental chemistry management analysis GS products management methods . petroleum products toxicology . . asphalt management planning ∞ paths . . diesel fuels program trend line analysis petals gasoline project management RT plants (botany) . tars RT butanes crude oil petechia DEF Any departure introduced into an asgreases GS hemorrhages sumed steady state of a system, or a small kerogen petechia departure from a nominal path such as a desired lubricants RT skin (anatomy) trajectory. Usually used as equivalent to small lubricating oils perturbation. Specifically, a disturbance in the methane **PETN** natural gas regular motion of a celestial body, the result of a pentaerythritol tetranitrate force additional to that which causes the regular GS esters motion, specifically a gravitational force. . organic nitrates perturbation polynuclear organic compounds . PETN . orbit perturbation nitrogen compounds petrology
DEF That branch of geology dealing with . satellite perturbation . nitrates RT ∞ disturbances . . organic nitrates four body problem the origin, occurrence, structure, and history of . PETN rocks, especially igneous and metamorphic geodesy RT explosives gravitational instability rocks long term effects GS geology many body problem nutation Petrel sounding rocket petrology . . lithology rocket vehicles

. sounding rockets

. . Petrel sounding rocket

. . petrogenesis

. . petrography

orbital mechanics

oscillations

| RT       | cones (volcanoes)                        | fusion (melting)                              | liquidus   |
|----------|--|---|--|
|          | formations                               | heat of fusion                                | melting points   |
|          | geochemistry                             | heat storage                                  | phase separation (materials)   |
|          | geological surveys                       | heat transfer                                 | phase stability (materials)  |
|          | geophysics                               | liquid-solid interfaces                       | solid phases   |
|          | impact melts                             | ∞ materials                                   | solid solutions  |
|          | inliers (landforms)                      | melting                                       | solid suspensions  |
|          | Mars volcanoes                           | organic materials                             | solubility   |
|          | mineralogy                               | phase transformations                         | stoichiometry  |
|          | rocks                                    | solar energy conversion                       | transition points  |
|          | stratigraphy                             | solar heating                                 | transition temperature   |
|          | volcanoes                                | sublimation                                   | vapor phases   |
|          | volcanology                              | Trombe walls                                  | The first section of the first |
|          | 3,                                       | waxes   | phase error  |
| Pfaff ed | quation                                  | working fluids                                | GS errors  |
|          | analysis (mathematics)                   | working nation                                | . phase error  |
|          | . Pfaff equation                         | phase coherence                               | RT anisoplanatism  |
| RT       | differential equations                   | RT ∞ coherence                                | circuit protection   |
|          | ∞ equations                              | coherence coefficient                         | error signals  |
|          | thermodynamics                           | coherent light                                | error signals  |
|          | anomino ay mammoo                        | four-wave mixing                              | nhace leak demodulators  |
| PFM (n   | nodulation)                              | wave fronts                                   | phase lock demodulators  |
| USE      | ,  | wave nones                                    | GS demodulators  |
| 002      | paloe irequestey inequalities            | phase conjugation                             | phase lock demodulators  |
| рН       |  |   | RT correlation detection   |
| RT       | acid base equilibrium                    | DEF Technique for the removal of phase        | parametrons  |
|          | acid rain                                | distortions during propagation of laser beams |  |
|          | acidity                                  | through the atmosphere.                       | phase locked systems   |
|          | acidosis                                 | GS conjugation                                | RT feedback frequency modulation   |
|          | alkalinity                               | . phase conjugation                           | optical coupling   |
|          | alkalosis                                | four-wave mixing                              | phase control  |
|          | bases (chemical)                         | -h  | phase detectors  |
|          |  | phase contrast                                | synchronized oscillators   |
|          | buffers (chemistry)                      | GS contrast                                   | ∞ systems  |
|          | hydrogen ions                            | . phase contrast                              | tracking filters   |
| nH foot  | <b>.</b>                                 | RT diffraction patterns                       |  |
| pH fact  |  | electron microscopy                           | phase matching   |
| RT       | acid base equilibrium                    | microscopy                                    | DEF A way of maximizing the coupling be  |
|          | acidosis                                 | optical measurement                           | tween two systems used in second harmonic  |
|          | alkalosis                                | optical paths                                 | generation which happens mostly in crystals.   |
|          | hydrogen ions                            | scanning electron microscopy                  |  |
|          | ion concentration                        | transmission electron microscopy              | , ,  |
|          | soil sampling                            |   | crystals   |
| D1 11    |  | phase control                                 | frequency multipliers  |
|          | on (hypothetical planet)                 | RT circuit protection                         | harmonic generations   |
|          | led June 1998)                           | ∞ control o                                   | laser outputs  |
| USE      | hypothetical planets                     | phase locked systems                          | lasers   |
|          |  | transformers                                  |  |
| phanta   | strons                                   | tiansionners                                  | phase modulation   |
| GS       | circuits                                 | phase demodulators                            | DEF Angle modulation in which the angle of   |
|          | . delay circuits                         | GS demodulators                               | a sine wave carrier is caused to depart from the   |
|          | phantastrons                             |   | carrier angle by an amount proportional to the   |
|          | oscillators                              | . phase demodulators                          | instantaneous value of the modulation wave   |
|          | . relaxation oscillators                 | RT Bragg cells                                | Combinations of phase and frequency modula   |
|          | phantastrons                             | modems  | tion are commonly referred to as frequency   |
| RT       | feedback amplifiers                      | Access to the state of                        | modulation.  |
|          | Todabaok ampimoro                        | phase detectors                               | GS coding  |
| Phanto   | m aircraft                               | DEF Devices that continuously compare the     | •  |
|          | F-4 aircraft                             | phase of two signals and provide an output    | . signal encoding  |
| 002      | 1 - an orare                             | proportional to their difference in phase.    | phase modulation   |
| pharma   | acology                                  | GS circuits                                   | FM/PM (modulation)   |
| GS       | medical science                          | . phase detectors                             | phase shift keying   |
| 00       | . pharmacology                           | synchroscopes                                 | binary phase shift keying  |
|          |  | RT ∞ detectors                                | quadrature phase shift keying  |
| рт       | psychopharmacology anesthesiology        | phase locked systems                          | modulation   |
| RT       |  | signal detection                              | . phase modulation   |
|          | antiradiation drugs                      | synchronism                                   | . FM/PM (modulation)   |
|          | bioavailability                          | - <b>,</b>                                    | phase shift keying   |
|          | bioprocessing                            | phase deviation                               | binary phase shift keying  |
|          | cyclic AMP                               | DEF The peak difference between the in-       | quadrature phase shift keying  |
|          | drugs                                    | stantaneous phase of the modulated wave and   | RT amplitude modulation  |
|          | ∞ medicine                               | •   | Bragg cells  |
|          | motion sickness drugs                    | the carrier frequency.                        | deformable mirrors   |
|          | vasoconstrictor drugs                    | RT amplitudes                                 | demodulation   |
|          | veterinary medicine                      | modulated continuous radiation                |  |
|          | •  | signal analysis                               | demodulators   |
| pharyn   | X  |   | frequency modulation   |
| GŚ       |  | phase diagrams                                | modems   |
|          | . respiratory system                     | UF constitutional diagrams                    | modulators   |
|          | pharynx                                  | equilibrium diagrams                          | parametric frequency converters  |
|          | F y                                      | eutectic diagrams                             | pulse modulation   |
| phase a  | angle                                    | GS diagrams                                   | push-pull amplifiers   |
| USE      | phase shift                              | . phase diagrams                              | trellis coding   |
|          | •  | RT alloys                                     |  |
| phase    | change materials                         | binary systems (materials)                    | phase response   |
| DEF      |  | cluster variation method                      | USE frequency response   |
|          | ransformations and whose latent heat of  | critical temperature                          | phase shift  |
|          | properties are used to store and deliver | eutectics                                     | p  |
|          |  |   | nhasa rula   |
|          | energy, usually solar energy. Used for   | heat of fusion                                | phase rule   |
|          | naterials).                              | heat treatment                                | GS rules   |
| UF       | PCM (materials)                          | intermetallics                                | phase rule   |
| RT       | ceresin                                  | liquid phases                                 | RT chemical equilibrium  |
|          | condensing                               | liquids                                       | degrees of freedom   |

∞ Gibbs equations . . coal liquefaction vapor phases martensitic transformation phase separation (materials) . melting phase-space integral (added December 1988) . . arc melting analysis (mathematics) . phase-space integral binary systems (materials) . . fusion (melting) liquid phases . . levitation melting classical mechanics miscibility gap . . vacuum melting Euclidean geometry phase diagrams . . zone melting hyperspaces phase stability (materials) . vaporizing state vectors phase transformations . . boiling . . . film boiling separation phenacetin solid phases nucleate boiling USE acetanilide .... Leidenfrost phenomenon solubility . . evaporation phenanthrene phase shift . . . evapotranspiration GS organic compounds The phase difference of two periodipropellant evaporation . hydrocarbons . . . transpiration cally recurring phenomena of the same frephenanthrene . . flashing (vaporizing)
. . prevaporization quency, expressed in angular measure. The anthracene angle between the lines connecting a celestial dves body and the sun and a celestial body and the sublimation isomers Earth. Used for phase angle and phase recluster variation method sponse. cold hardening phenobarbital phase angle condensing RT druas phase response critical temperature narcotics GS phase shift crystallization sedatives Sagnac effect directional solidification (crystals) angles (geometry) electron-hole drops phenol formaldehyde equalizers (circuits) ferroelasticity formaldehyde microwave switching heat of fusion phenolic resins ∞ phases Ising model resins ∞ shift Laves phases martensite phenolic epoxy resins phase shift circuits melt spinning GS plastics GS circuits metamorphism (geology) . synthetic resins . phase shift circuits mushy zones . . thermosetting resins . circulators (phase shift circuits) neel temperature . . . epoxy resins delay circuits order-disorder transformations .... phenolic epoxy resins duplex operation Ostwald ripening ... phenolic resins avrators phase change materials ... phenolic epoxy resins phase separation (materials) resins phase shift keying
DEF The form of phase modulation in which phase stability (materials) . synthetic resins ∞ phases . . thermosetting resins the modulating function shifts the instantaneous shape memory alloys . . . epoxy resins phase of the modulated wave among predetersolidification . phenolic epoxy resins mined discrete values. solids . . . phenolic resins coding GS .... phenolic epoxy resins
RT adhesives syntectic alloys . signal encoding ∞ transformations . . phase modulation . . . phase shift keying ∞ transition amines transition pressure crosslinking . . . . binary phase shift keying transition temperature . . quadrature phase shift keying phenolic resins keying phase velocity GS plastics . phase shift keying DEF Of a traveling plane wave at a single . synthetic resins . . binary phase shift keying frequency, the velocity of an equiphase surface ... thermosetting resins . quadrature phase shift keying along the wave normal. ... phenolic resins modulation GS rates (per time) . . . . micarta . phase modulation phase velocity . phenolic epoxy resins . phase shift keying velocity resins . binary phase shift keying phase velocity . synthetic resins . . quadrature phase shift keying electromagnetic radiation . . thermosetting resins cochannel interference group velocity ... phenolic resins information theory Landau damping . . . . micarta quadrature amplitude modulation propagation velocity ... phenolic epoxy resins Rayleigh fading quantum mechanics RT carbon-phenolic composites trellis coding traveling waves phenol formaldehyde wave fronts phase stability (materials) wave propagation (added July 1991) phenology DEF A branch of science dealing with the stability phased arrays relations between climate and periodic biological phenomena. phase stability (materials) GS arrays crystallization phased arrays ŘТ activity cycles (biology) phase diagrams antenna arrays biometeorology phase separation (materials) laser arrays climatology phase transformations linear arrays coastal ecology ∞ phases monopulse antennas stabilization ecology seismographs migration steerable antennas phase switching interferometers molting measuring instruments phenomenology ∞ phases rhythm (biology) . interferometers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) cycles . phase switching interferometers zeitgebers radio astronomy radio telescopes phenols liquid phases GS hydroxyl compounds phase transformations lunar phases . alcohols phenols GS phase transformations phase shift phase stability (materials) . . . bisphenols . freezing

phase transformations

solid phases

terminator lines

. . . cresols

. . . thymol

. . . phloroglucinol

. . vibrational freezing

. zone melting

. liquefaction

RT thiols

phenomenology

case histories experimentation medical phenomena mesoscale phenomena phenology

#### phenothiazines

organic compounds

. cyclic compounds

. . heterocyclic compounds

. . . azines

.... phenothiazines

poisons

. pesticides . . insecticides

. . phenothiazines

. azines

. . phenothiazines

#### phenotype

(added August 2004)

The outward appearance of the individual. It is the product of interactions between genes, and between the genotype and the environment,

RT cloning (biology) gene expression genes genetic engineering genetically modified plants

#### phenylalanine

GS acids

. amino acids

. . alanine

. . . phenylalanine . carboxylic acids

. . alanine

. . phenylalanine

organic compounds amino acids

. . alanine

. phenylalanine

carboxylic acids

. . alanine ... phenylalanine

#### phenyls

GS phenyls

polybrominated biphenyls . polychlorinated biphenyls

. polyphenyls

.. tetraphenyls . triphenyls

terphenyls

phosphene propargyl groups

# Philco 2000 computer

data processing equipment

. computers

. . digital computers

... Philco 2000 computer

#### **Philippines**

landforms

. islands

. . Pacific islands

. Philippines nations

. Philippines

## Philips ionization gages

GS measuring instruments

. pressure gages . . vacuum gages

. . . ionization gages

. . . . Philips ionization gages

vacuum apparatus

. vacuum gages

. . ionization gages

. Philips ionization gages

RT pressure measurement

### philosophy

GS knowledge

. philosophy

. paradoxes

literature

∞ loaic

mathematical logic

# phloroglucinol

hydroxyl compounds

. alcohols

. . phenols

. phloroglucinol

chemical indicators

resins

## phobias

phobias GS

. fear

. fear of flying

anxiety

emotional factors

#### **Phobos**

DEF A satellite of Mars orbiting at a mean

distance of 9,400 kilometers.

GS celestial bodies

. natural satellites

. . Mars satellites

Phobos Deimos

Mars (planet)

Nozomi Mars Orbiter

Phobos spacecraft

#### Phobos spacecraft

(added August 1998)

Two Soviet spacecraft (Phobos 1 and 2, both launched in July 1988) designed to study the plasma environment in the Martian vicinity, the surface and atmosphere of Mars, and the surface composition of the Martian satellite Phobos. Other mission objectives included the study of the interplanetary environment and solar observations.

interplanetary spacecraft
. Mars probes GS

Phobos spacecraft

Soviet spacecraft

. Phobos spacecraft unmanned spacecraft

space probes

. Mars probes

Phobos spacecraft Mars atmosphere

Mars environment

**Phobos** 

### Phoebe

DFF A satellite of Saturn orbiting at a mean distance of 12,960,000 kilometers.

GS celestial bodies

. natural satellites

. . Saturn satellites

. Phoebe RT Saturn (planet)

# Phoebus nuclear reactor

GS nuclear reactors

Phoebus nuclear reactor

KIWI reactors

nuclear engine for rocket vehicles nuclear rocket engines

#### Phoenix (AZ) cities

GS

Phoenix (AZ)

Arizona

# **Phoenix Mars Lander**

(added December 2007)

DEF A robotic spacecraft launched under the Mars Scout Program to land in the planet's water-ice-rich northern polar region. Instruments aboard the lander were developed to search for environments suitable for microbial life on Mars and research the history of water there. The lander mission was headed by the Lunar and Planetary Laboratory at the University of Arizona and was the first scientist led mission to Mars.

interplanetary spacecraft GS

. Mars probes

. . Phoenix Mars Lander

unmanned spacecraft . space probes

. . Mars probes Phoenix Mars Lander

extraterrestrial life extraterrestrial water

Mars missions Mars surface

Phoenix quadrangle (AZ)

GS landforms

Phoenix quadrangle (AZ) Arizona

geodetic surveys mapping

### Phoenix sounding rocket

GS rocket vehicles

. multistage rocket vehicles

. . Phoenix sounding rocket

. sounding rockets

. Phoenix sounding rocket

RT solid propellant rocket engines

#### phonemes

GS speech

phonemes

RT languages linguistics

phonemics phonetics

psycholinguistics speech recognition words (language)

phonemics GS linguistics

phonemics intelligibility

languages

phonemes phonetics

psycholinguistics speech

speech defects

speech recognition words (language)

phonetics

linguistics GS phonetics

speech

phonetics

acoustics

intelligibility

languages

phonemes phonemics

speech defects

speech recognition verbal communication

# words (language)

phonoarteriography

arteries blood circulation phonocardiography

phonocardiograms USE phonocardiography

phonocardiography

phonocardiograms vibrocardiography

bioengineering . biometrics

. . cardiography ... phonocardiography

. . echocardiography ballistocardiography

phonoarteriography

vectorcardiography

electrocardiography heart heart diseases

# phonon beams

beams (radiation) GS

. phonon beams

elastic waves Skydrol (trademark) . phosphoric acid . phonons phosphates . phonon beams phosphazene electromagnetic radiation A ring or chain polymer that contains phosphoric acid fuel cells alternating phosphorus and nitrogen atoms, with . thermal radiation DEF Long life fuel cells for the low to metwo substituents on each phosphorus atom. . phonon beams dium wattage range which use phosphoric acid elementary excitations GS organic compounds as an electrolyte. . phonons . organic phosphorus compounds GS electric generators . phonon beams phosphazene . direct power generators corpuscular radiation phosphorus compounds . . fuel cells . organic phosphorus compounds particle beams . phosphoric acid fuel cells phosphazene photon beams electrochemical cells . Umklapp process nitrogen compounds . fuel cells phosphines . phosphoric acid fuel cells phosphonitriles biochemical fuel cells phonons polymer chemistry electrolytic cells GS elastic waves energy technology . phonons phosphene hydrogen oxygen fuel cells regenerative fuel cells . phonon beams GS organic compounds elementary excitations . organic phosphorus compounds total energy systems . phonons . phosphene . phonon beams phosphorus compounds crystal structure phosphors DEF Ph . organic phosphorus compounds lattice vibrations Phosphorescent substances such as . phosphene plasmons zinc sulfide, which emit light when excited by radiation, as on the scope of a cathode ray tube. . phosphates polarons . phosphene sound waves phosphors
. radiophosphors luminosity GS Umklapp process phenyls RT fluorescence retina image intensifiers vision phoria laser induced fluorescence GS diseases mercury lamps phosphides . eye diseases phosphorescence GS phosphorus compounds . . phoria photographic film phosphides . . boron phosphides . . gallium phosphides . . indium phosphides phosgene phosphorus GS gases GS chemical elements phosgene .. manganese phosphides . phosphorus halogen compounds . . schreibersite . . phosphorus isotopes . chlorine compounds ... phosphorus 32 . . chlorides phosphines . phosgene GS hydrogen compounds phosphorus 32 . halides hvdrides GS chemical elements . . chlorides phosphines . nuclides phosphorus compounds . phosphines . . phosgene . . isotopes poisons ... phosphorus isotopes phosgene phosphazene .... phosphorus 32 RT ∞ chemical compounds . . . radioactive isotopes phosphonitriles .. phosphorus 32 nitrogen compounds phosphatases . phosphorus . nitriles (added August 2004) . . phosphorus isotopes . phosphonitriles A group of hydrolases which catalyze organic compounds nitriles ... phosphorus 32 the hydrolysis of monophosphoric esters and the transfer of phosphate groups. phosphorus compounds . phosphonitriles GS biopolymers phosphorus compounds organic phosphorus compounds . proteins diethyl hydrogen phosphite (DEHP) . phosphonitriles arganic phosphorus compounds
phosphazene . . enzymes phosphorus compounds .. phosphatases organic phosphorus compounds organic compounds phosphene . phosphonitriles . proteins . . phosphonitriles RT phosphazene . . enzymes . uridylic acid phosphatases phosphonium compounds . phosphates catalytic activity GS phosphorus compounds . . adenines enzymology phosphonium compounds . . adenosine triphosphate esters  $RT \propto chemical\ compounds$ . . ammonium phosphates hydrolysis calcium phosphates phosphates phosphorescence cyclic AMP DEF Emission of light which continues after . . diphosphates phosphates the exciting mechanism has ceased. . . . adenosine diphosphate phosphorus compounds GS electromagnetic properties ... adenosine monophosphate phosphates . optical properties .. indium phosphates . phosphorescence . . monazite sands . . adenines adenosine triphosphate . . phosphene emission ammonium phosphates . light emission polynucleotides . . calcium phosphates . . luminescence . . potassium phosphates cyclic AMP ... fluorescence pyridine nucleotides . . uridylic acid . . diphosphates . . phosphorescence . adenosine diphosphate afterglows . phosphides . . adenosine monophosphate bioluminescence . . boron phosphides . . gallium phosphides indium phosphates chemiluminescence . . monazite sands .. indium phosphides phosphors phosphene plasma radiation ... manganese phosphides . . schreibersite . . polynucleotides scintillation potassium phosphates . phosphines trapping . . pyridine nucleotides . phosphonium compounds . phosphoric acid . uridylic acid phosphoric acid phosphorus oxidesphosphorus polymers kreep phosphatases acids GS

phosphoric acid

phosphorus compounds

RT ∞ chemical compounds

phosphoric acid

∞ Group 5A compounds

### phosphorus isotopes

GS chemical elements

- . nuclides
- . . isotopes
- ... phosphorus isotopes
- . phosphorus 32
- . phosphorus
- . . phosphorus isotopes
- . . . phosphorus 32

#### phosphorus metabolism

metabolism

phosphorus metabolism

#### phosphorus oxides

GS chalcogenides

- . oxides
- . phosphorus oxides

phosphorus compounds

phosphorus oxides

### phosphorus polymers

phosphorus compounds

. phosphorus polymers

RT ∞ polymers

#### phosphorylation

chemical reactions

phosphorylation

#### photics

light (visible radiation) RT

∞ optics

#### photo reconnaissance spacecraft

GS military spacecraft

- . reconnaissance spacecraft
  . photo reconnaissance spacecraft

RT ∞ spacecraft

#### photoabsorption

GS energy absorption

- . radiation absorption
- . . electromagnetic absorption
- . . photoabsorption

RT ∞ absorption photoexcitation

### photoacoustic microscopy

microscopy

photoacoustic microscopy

acoustic microscopes acousto-optics ceramics nondestructive tests photoacoustic spectroscopy

## photoacoustic spectroscopy

DEF An optical technique for investigating solid and semisolid materials, in which the sample is placed in a closed chamber filled with a gas and illuminated with monochromatic radiation of any desired wavelength, and with intensity modulated at some acoustic frequency. Absorption of radiation results in a periodic heat flow from the sample, which generates sound detectable with a sensitive microphone.

spectroscopy

# photoacoustic spectroscopy

absorption spectra absorptivity acousto-optics laser applications laser spectroscopy photoacoustic microscopy photothermal deflection spectroscopy

# photocathodes

Electrodes used for obtaining a photoelectric emission when irridated. Used for photoelectric cathodes

photoelectric cathodes

GS electrodes

- . cathodes
- . . tube cathodes
- . photocathodes

RT dark current electrode materials image converters image intensifiers image orthicons light amplifiers microchannels orthicons photoelectric cells photoelectric emission photoelectric materials photomultiplier tubes

#### photocells

USE photoelectric cells

#### photochemical oxidants

DEF Any of the chemicals which enter into oxidation reactions in the presence of light or other radiant energy.

GS oxidizers

### . photochemical oxidants

air pollution atmospheric chemistry nitrogen oxides ozone photooxidation

### photochemical reactions

DEF Chemical reactions which involve either the absorption or emission of radiation. Used for photochemistry and photoreduction.

photochemistry photoreduction GS

chemical reactions . photochemical reactions

- . . photochromism
- photodecomposition
- . . photolysis
- . . photooxidation
- . . photosynthesis

. . radiolysis association reactions

atmospheric chemistry charge transfer

cycloaddition

oxetane polymers sodalite

volatile organic compounds

photochemistry

USE photochemical reactions

# photochromism

GS chemical reactions

. photochemical reactions

. photochromism

color photography sodalite

photoclinometry

USE photogrammetry

# photoconductive cells

DEF Photoelectric cells whose electrical resistance varies with the amount of illumination falling upon the sensitive area of the cell.

photoelectric cells

photoconductive cells

RT ∞ cells

photovoltaic cells

# photoconductivity

DEF The conductivity increase exhibited by some nonmetallic materials, resulting from the free carriers generated when photon energy is absorbed in electronic transitions. The rate at which free carriers are generated, the mobility of the carriers, and the length of time they persist in conducting states (their lifetime) are some of the factors that determine the amount of conductivity change. Used for photoresistivity.

photoresistivity

electrical properties

. electrical resistivity . photoconductivity

electromagnetic properties

- . optical properties
- photoconductivity

photoelectricity . photoelectric effect

. . photoconductivity

transport properties

. electrical resistivity

. photoconductivity

RT ∞ conductivity

mercury cadmium tellurides

photoconductors square wells

### photoconductors

photoresistors conductors

. photoconductors semiconductors (materials)

. photoconductors

mercury cadmium tellurides

photoconductivity photodiodes photoelectric cells photoelectric materials photometers phototransistors

resistors

tunnel junctions

#### photocurrents

USE electric current photoelectric emission

#### photodecomposition

chemical reactions

. photochemical reactions

photodecomposition decomposition

. photodecomposition

radiation chemistry

. photodecomposition electromagnetic absorption photodetachment

# photodetachment

photodecomposition RT photoionization

photolysis

photodetectors

USE photometers

# photodiodes

DEF Diodes designed to produce photocurrent by absorbing light. Photodiodes are used for the conversion of optical power to electrical power.

electronic equipment

- . diodes
- . . semiconductor diodes
- ... photodiodes . solid state devices
- . . semiconductor devices
- ... photodiodes
  optoelectronic devices
  photodiodes

dark current focal plane devices

ion implantation

lasers

mercury cadmium tellurides MSM (semiconductors)

photoconductors

photoelectric cells

photoelectric materials phototransistors

phototubes pushbroom sensor modes

SIS (semiconductors) solar cells

x ray detectors

# photodissociation

DEF The dissociation (splitting) of a molecule by the absorption of a photon. The resulting components may be ionized in the process (photoionization).

GS decomposition

photodissociation

dissociation

photodissociation radiation chemistry

photodissociation electromagnetic absorption

photoexcitation

709

photolysis

#### photoelastic analysis

photoelastic stress measurement

fringe multiplication Moire effects

∞ optics

photographic measurement

∞ polarization

polarization (waves)

stress analysis

stress measurement

temperature inversions

#### photoelastic materials

RT ∞ materials

photoelasticity

photoelastic stress measurement USE photoelastic analysis

## photoelasticity

GS electromagnetic properties

. photoelasticity

. . photoviscoelasticity

mechanical properties

. elastic properties

photoelasticity

. . photoviscoelasticity

birefringence dichroism

photoelastic materials

polarized light

prisms refraction

stress analysis

photoelectric cathodes USE photocathodes

#### photoelectric cells

DEF Transducers which convert electromagnetic radiation in the infrared, visible, and ultraviolet regions into electrical quantities such as voltage, current, or resistance. Used for photocells.

photocells

#### GS photoelectric cells

. photoconductive cells

. photovoltaic cells

. . solar cells

... vertical junction solar cells

RT ∞ cells

dark current

direct power generators

∞ electric cells

electrochemical cells

electrode materials energy absorption films

photocathodes

photoconductors

photodiodes

photometers

photomultiplier tubes

phototransistors

phototubes

solar generators

transducers

# photoelectric effect

DEF The emission of an electron from a surface as the surface absorbs a photon of electromagnetic radiation. Electrons so emitted are termed photoelectrons.

photoelectricity

# . photoelectric effect

. . photoconductivity

. . photoelectric emission

. . photoionization

. photovoltaic effect

RT ∞ effects

photoelectrons

# photoelectric emission

The emission of electrons from atoms or molecules. Used for photocurrents, photoemission, and photoemissivity.

photocurrents , photoemission photoemissivity GS emission

. particle emission

. . electron emission

. photoelectric emission

photoelectricity . photoelectric effect

. photoelectric emission

electrical properties

external surface currents

negative electron affinity

photocathodes

photoexcitation

photoionization

photopeak

photovoltages

photovoltaic effect stimulated emission

work functions

# photoelectric generators

GS electric generators

. direct power generators

photoelectric generators

... photovoltaic cells

. . . . solar cells

. . . . vertical junction solar cells

RT ∞ generators

photoelectrochemical devices

solar energy conversion

solar generators

thermoelectric generators

#### photoelectric materials

photoemitters

electrode materials

electron emission

∞ materials

photocathodes

photoconductors

photodiodes

photoelectricity photoelectrons

phototransistors

phototubes photovoltaic cells

photoelectric photometers USE electrophotometers

photoelectricity photoelectronics UF

photosensors

photoelectricity

. photoelectric effect

. . photoconductivity

. . photoelectric emission

. . photoionization

photovoltaic effect Compton effect

electrical properties

electricity

optical properties

photoelectric materials

photoelectrons

photovoltages

# photoelectrochemical devices

DEF Electrochemical devices powered by light or other incident radiation to produce electricity and/or chemical fuels (e.g., hydrogen).

 $RT \, \infty \, devices$ 

electrochemical cells electrode materials

energy technology

photoelectric generators

photoelectrochemistry photon beams

solar energy conversion

# photoelectrochemistry

DEF The study of the interaction between impinging light energy and the electropotential of the chemical changes in the electrode, electrolytic solution, or a photosensitive membrane.

electrochemistry photoelectrochemistry

RT ∞ chemistry

photoelectrochemical devices

photoelectromagnetic detectors

photoelectromagnetic effects USE radiation measuring instruments

#### photoelectromagnetic effects

photoelectromagnetic detectors

RT ∞ effects excitons intermetallics

#### photoelectron spectroscopy

spectroscopy

# photoelectron spectroscopy

electron emission spectroscopic analysis

photoelectronics

USE electronics

photoelectricity

# photoelectrons

DEF Electrons which have been ejected from their parent atoms by interaction between those atoms and high energy photons.

particles

. charged particles . . energetic particles

... electrons

. photoelectrons . corpuscular radiation

. . energetic particles

. . . electrons . photoelectrons

. elementary particles

. . fermions ... leptons

. . . . electrons

. . . . . photoelectrons

. nuclear particles photoelectrons

electron emission photoelectric effect

photoelectric materials

photoelectricity

photoionization

photomagnetic effects photoneutrons

photonuclear reactions photovoltaic effect

photoemission USE photoelectric emission

photoemissivity emissivity

photoelectric emission

# photoemitters

USE photoelectric materials

photoengraving micromachining

photomechanical effect printing

# photoexcitation

(added December 1992) excitation

. photoexcitation potential energy

. electric potential

. . quantum wells ... photoexcitation

fluorescence molecular excitation

photoabsorption photodissociation

photoelectric emission photoionization photoluminescence

photogeology geology

photogeology

aerial photography Earth Resources Survey aircraft geological surveys geomorphology

ice mapping

natural gas exploration photometers . photomicrographs display devices photogrammetry projectors photomapping images reconnaissance photographic film GS photographic film thematic mapping optical correction procedure microfilms photographic developers photographic film photogoniometers GS measuring instruments magazines (supply chambers) photographic plates photographic processing photographic recording photography . goniometers optical data storage materials . photogoniometers optical filters . optical measuring instruments phosphors . photogoniometers photographs pixels optical equipment photography representations . optical measuring instruments polymeric films spatial filtering . . photogoniometers angles (geometry) Sabatier reaction video tapes visual aids diffractometers photographic measurement xerography etalons photographic measurement interferometers photogrammetry photography
 DEF A process for recording visual images dosimeters monochromators ∞ measurement spectrometers by exposing a light-sensitive substance to radiaoptical correction procedure tion such as visible light, infrared radiation, or optical measurement photogrammetry
DEF The art of particle image velocimetry photoelastic analysis The art or science of obtaining reliable ĞS measurements by means of photography. Used imagery for photoclinometry. photography photointerpretation . photography photoclinometry . . aerial photography photographic measurement
. photogrammetry
aerial photography
digital cameras photometry . . all sky photography GS . . astronomical photography photoreconnaissance autoradiography spectrometers black and white photography photographic plates . . chronophotography mapping glass . . cinematography photogeology RT cloud photography photoreconnaissance photographic processing . . color photography photographs projectors . . electron photography photography relief maps .. electro-optical photography stereophotography plates . . fractography surveys photographic processing . . frame photography terrain analysis . . high speed photography RT darkrooms photographic plates photographs photography . . holography photograph interpretation acoustical holography photointerpretation microwave holography speckle holography photographic developers printing ... white light holography UF developers (photography) RT ∞ development ∞ processing . . infrared imagery . . lunar photography
. . metric photography photographs photographic processing equipment photographic equipment photography microwave photography
 mitispectral photography
 infrared photography
 color infrared photography photographic processing equipment photographic emulsions

DEF The light-sensitive coatings on photographic film consisting usually of silver halide. darkrooms photography reproduction (copying) . . . radar photography . . orthophotography GS mixtures . dispersions photographic recording . . emulsions . . photomicrography . . rocket-borne photography ... photographic emulsions GS recording shadowgraph photography
 Schlieren photography
 spaceborne photography
 satellite-borne photography photographic recording . nuclear emulsions data recording . solutions high speed photography . . photographic emulsions . nuclear emulsions hologrammetry photography intermittency hypothesis . . spectrophotography photosensitivity particle image velocimetry . . stereoscopy photographs . stereophotography photographic equipment photography . . streak photography GS photographic equipment recording instruments . . ultraviolet photography cameras . . ultraviolet photometry Baker-Nunn camera photographic rectifiers underwater photography ballistic cameras GS optical equipment urography CCD cameras photographic rectifiers RT brightness distribution Delft camera photographic equipment brightness temperature diffraction limited cameras photographic rectifiers cameras faint object camera RT ∞ condensers CCD cameras . . high speed cameras photography cloud photographs . framing cameras darkrooms digital cameras Earth observations (from space) photographic tracking I2S cameras tracking (position) Earth resources Lallemand cameras photographic tracking evaporography cinetheodolites exposure . . multispectral band cameras panoramic cameras optical tracking graphic arts HS-801 aircraft . . pinhole cameras photography satellite tracking Schmidt cameras ice mapping imaging techniques lunar photographs mapping Mars photographs microphotographs . . streak cameras space detection and tracking system . television cameras
 . photographic processing equipment
 . photographic rectifiers

RT ∞ equipment photographs photographs
. cloud photographs
. lunar photographs
. Mars photographs
. microphotographs lenses multispectral band cameras optical equipment optical filters multispectral band scanners panoramic cameras photography . motion pictures photographic developers

# photointerpretation

photographic emulsions fluorescence printed circuits photographic equipment laser induced fluorescence . solid state devices photographic film photoexcitation substrates photographic measurement photoluminescent bands wafers photographic plates photorefractivity photomechanical effect photographic processing porous silicon photographic processing equipment  $RT \, \infty \, effects$ photographic recording photoluminescent bands lithography photographic rectifiers GS spectra micromachining photographic tracking . spectral bands photoengraving photographs . photoluminescent bands photography photointerpretation absorption spectra printing photolithography ∞ bands photometers photomapping emission spectra photomaps photoluminescence photomasks triboluminescence Used for microphotometers and photodetectors. photomechanical effect microphotometers photolysis UF photoreconnaissance photodetectors . chemical reactions pinhole cameras . photochemical reactions measuring instruments pixels photolysis . optical measuring instruments projectors . . photometers radiography rapid ballistics identification decomposition . photolysis ... electrophotometers reproduction (copying) timber inventory ... ultraviolet spectrometers radiation chemistry photolysis .... high dispersion spectrographs cracking (chemical engineering) .... Total Ozone Mapping video tapes electrolysis Spectrometer wave front reconstruction photodecomposition ... quantum well infrared xerography photodetectors photodissociation photointerpretation radiolysis ... ultraviolet spectrophotometers photograph interpretation
aerial photography

∞ analyzing
change detection
around truth . radiation measuring instruments . . photometers photomagnetic effects . . . electrophotometers RT deuterons . . . ultraviolet spectrometers ∞ effects gamma rays .... high dispersion spectrographs ground truth photoelectrons . . . . Total Ozone Mapping interpretation photographic measurement Spectrometer spin decoupling . . . quantum well infrared photography photodetectors photomapping photomapping . . . ultraviolet spectrophotometers optical equipment photoreconnaissance mapping GS napping

photomapping

aerial photography

Coastal Zone Color Scanner

color photography

DMSP satellites sea truth . optical measuring instruments spatial filtering photometers electrophotometers photoionization The ionization of an atom or molecule . . . ultraviolet spectrometers Earth resources geodesy . . . . high dispersion spectrographs . . . . Total Ozone Mapping by the collision of a high energy photon with the particle. geology Spectrometer . . . quantum well infrared emission photoionization gnomonic projection photodetectors hologrammetry ionization . photoionization ice mapping . . ultraviolet spectrophotometers photoelectricity maps bolometers . photoelectric effect ocean color scanner densitometers . photoionization photogeology electrophotometry atmospheric ionization photography ellipsometers auroral ionization photointerpretation horizon scanners auroral irradiation rocket-borne photography infrared spectrophotometers electron emission satellite-borne photography microdensitometers gas ionization soil mapping nephelometers laser induced fluorescence spaceborne photography optical measurement photodetachment thematic mapping photoconductors photoelectric emission thermal mapping photoelectric cells photoelectrons photographic equipment topography photometry photoexcitation photomaps phototransistors maps polarimeters DEF The process of making a printing plate photomaps pyranometers aerial photography radiometers photography reflectometers

# photolithography

RT

GS

by exposing a design photographically on a sensitized emulsion and removing unwanted portions chemically.

printing . lithography

photolithography

microelectronics micromodules photography photoresists

### photoluminescence

DEF Luminescence produced by the absorption of radiant flux, distinguished from ordinary reflection by a time delay and usually, an upward shift in a wavelength.

GS emission

. light emission

. . Īuminescence

. . . photoluminescence

... triboluminescence

. . . x ray fluorescence

RT blue shift

relief maps

satellite-borne photography spaceborne photography

thematic mapping

# photomasks

DEF In the production of integrated circuit devices, repeated arrays of microphotographs of the circult patterns on glass substrates used to form successive patterns on single wafers often of submicrometer sizes.

arrays circuit diagrams integrated circuits masking microelectronics micromachining microphotographs patterns photography photoresists

DEF Instruments for measuring the intensity of light or the relative intensity of a pair of lights.

spectrometers spectrophotometers

telephotometry transmissometers ultraviolet detectors x ray detectors

photometry

DEF The study of the measurement of the intensity of light.

optical measurement photometry

. astronomical photometry

. stellar spectrophotometry

. . electrophotometry

. . infrared photometry

. . spectrophotometry

. stellar spectrophotometry

. . telephotometry

. . ultraviolet photometry

. . visual photometry

RT chemical analysis photons photonuclear reactions colorimetry reflected waves photoproduction illuminating refracted waves Plancks constant illumination thermal blooming quantum theory light (visible radiation) ∞ radiation photon density rotons **luminance** photographic measurement rates (per time) photometers flux density photonuclear reactions polarimetry . photon density nuclear reactions reflectance squeezed states (quantum theory) photonuclear reactions electromagnetic interactions spectroscopy photon-electron interaction light (visible radiation) transmittance elastic scattering particle interactions photomicrographs electron scattering photoelectrons photographs elementary particle interactions . photoneutrons photomicrographs ∞ interactions photons photomicrography Umklapp process photoproduction photomicrography photoneutrons photooxidation micrography GS nuclear radiation GS chemical reactions GS imagery . photoneutrons . oxidation particles . photography . photooxidation . photomicrography . elementary particles . photochemical reactions black and white photography . . fermions . photooxidation electron microscopes ... neutrons association reactions metallography . . photoneutrons photochemical oxidants microscopes . neutral particles microscopy . . neutrons photopeak . . photoneutrons microstructure amplitude distribution analysis photomicrographs baryons photoelectric emission nuclear particles pulse amplitude photomultiplier tubes nuclear reactions scintillation counters DEF Phototubes with one or more dynodes photoelectrons between its photocathode and output electrode. photonuclear reactions photoperiod (added August 2004)
DEF The time of daily exposure that an Used for electron multipliers and multiplier phovector dominance model electron multipliers photonic propulsion organism receives from daylight or artificial light. multiplier phototubes propulsion It is believed the photoperiodic responses may amplifiers affect the control of energy balance and ther-. low thrust propulsion moregulation. . current amplifiers photonic propulsion . photomultiplier tubes . . . laser propulsion GS cycles ... laser propulsion
. spacecraft propulsion
. photonic propulsion
... laser propulsion
electromagnetic propulsion ... frequency modulation . photoperiod photomultipliers exposure photoperiod electron tubes activity cycles (biology) circadian rhythms . cold cathode tubes . . phototubes photon beams ... photomultiplier tubes diurnal variations photonic switching
USE optical switching light (visible radiation) . . . . frequency modulation photomultipliers melatonin cathodes photonics channel multipliers photophilic plants RT electro-optics plants (botany) dynodes fiber optics photophilic plants electrodes free-space optical interconnects light (visible radiation) microchannel plates lasers microwave tubes photosensitivity light emitting diodes multipactor discharges optical data processing photophoresis multipliers optical interconnects Production of unidirectional motion in a photocathodes optical switching collection of very fine particles, suspended in a photoelectric cells gas or falling in a vacuum, by a powerful beam of scintillating fibers optical waveguides optoelectronic devices scintillation counters RT secondary emission photons aerosols light (visible radiation) photon absorptiometry photons particle interactions DEF According to the quantum theory of density measurement particle motion photon absorptiometry radiation, the elementary quantities of radiant radiation pressure absorption spectra energy. They are regarded as discrete quantities densitometers having a momentum equal to hv/c, where h is photoplasticity electromagnetic absorption the Planck constant, v is the frequency of the mechanical properties energy absorption radiation, and c is the speed of light in a vacuum. . plastic properties gamma ray absorptiometry Photons are never at rest, have no electric photoplasticity gamma ray absorption charges and no magnetic moments, but they multiphoton absorption have spin moments. The energy of a photon (the photopolymers (added July 1995) radiation absorption unit quantum of energy) is equal to hv. particles DEF Polymers created by photochemical photon beams . elementary particles GS beams (radiation) . . bosons diffractive optics . photon beams ... photons display devices electromagnetic radiation . nuclear particles holography photon beams . . bosons photoresists beam waveguides ... photons ∞ polymers gamma ray beams annihilation reactions photoproduction incident radiation cosmic rays electromagnetic radiation laser outputs GS electromagnetic interactions gamma rays
light (visible radiation) light beams photoproduction optical paths particle production nuclear radiation photoproduction optical scanners optical properties electromagnetic absorption phonon beams

photon beams

photonics

photoelectrochemical devices

photonic propulsion

pair production

photons

photonuclear reactions visual pigments photoacoustic spectroscopy radioactive decay thermal diffusivity vector dominance model photosensors thermal lensing USE photoelectricity radiation measuring instruments photo thermotrop is mphotoreceptors USE anisotropy GS anatomy photosphere phototropism . sense organs The intensely bright portion of the sun temperature effects . photoreceptors visible to the unaided eye. receptors (physiology) photosphere phototransistors . photoreceptors solar granulation electronic equipment eye (anatomy) RT chromosphere . solid state devices photosensitivity faculae . . semiconductor devices retina solar atmosphere . . . transistors sensitometry solar physics . . phototransistors visual pigments spicules optoelectronic devices Young-Helmholtz theory starspots . phototransistors stellar activity junction transistors photoconductors sun photoreconnaissance photodiodes sunspots GS reconnaissance photoelectric cells photoreconnaissance photostresses photoelectric materials aerial reconnaissance GS stresses photometers Airborne Integrated Reconnaissance . photostresses phototubes System black and white photography photosynthesis phototropism DMSP satellites DEF A process operating in green plants in photothermotropism Earth Resources Survey aircraft which carbohydrates are formed under the influsensitivity ground truth ence of light with chlorophyl serving as a cata-. photosensitivity HS-801 aircraft . phototropism photogrammetry GS chemical reactions color photographic measurement crop vigor optical properties . photochemical reactions photography . photosynthesis photointerpretation algae plant physiology spectral reconnaissance carbohydrates plants (botany) Chlorella photoreduction chlorophylls phototubes USE photochemical reactions chloroplasts electron tubes crop growth . cold cathode tubes . . phototubes photosynthetically active radiation photorefractivity ... photomultiplier tubes phytochrome (added May 1995) . . . frequency modulation photomultipliers plant physiology electromagnetic properties respiration . optical properties RT cathodes . . refractivity photosynthetically active radiation (added January 2002) dark current ... photorefractivity electrodes reactivity flying spot scanners gas discharge tubes microwave tubes photodiodes DEF Incident natural or artificial radiation of . photorefractivity wavelengths that can be used by plants for crystal optics photosynthesis. gratings (spectra) GS electromagnetic radiation optical waveguides photosynthetically active photoelectric cells photoluminescence radiation photoelectric materials crop growth insolation phototransistors photoresistivity irradiance USE photoconductivity photoviscoelasticity electromagnetic properties optical properties leaf area index photosynthesis photoresistors ... photoviscoelasticity  $\infty$  radiation USE photoconductors solar radiation . photoelasticity vegetation growth . . photoviscoelasticity mechanical properties photoresists photothermal conversion . elastic properties (added June 2000) Conversion into thermal energy from . . photoelasticity DEF Photosensitive substances that are eioptical radiation by a photoabsorptive or photo-... photoviscoelasticity ther rendered soluble or insoluble to chemical selective material. . . viscoelasticity etchants when exposed to light, and are used in ... photoviscoelasticity GS energy conversion transferring circuit patterns in the production of . solar energy conversion integrated circuits. . . photothermal conversion photovoltages etching . . thermophotovoltaic conversion GS potential energy integrated circuits  $RT \, \infty \, conversion$ electric potential microelectronics energy absorption films . photovoltages photolithography energy conversion efficiency photoelectric emission photomasks energy technology photoelectricity photopolymers selectivity photovoltaic effect photosensitivity threshold voltage solar collectors solar dynamic power systems photosensitivity solar energy absorbers photovoltaic cells DEF The property of a material whereby its solar reflectors DEF Photoelectric detectors capable of dichemical makeup is altered by exposure to light. solar thermal electric power plants rectly generating an electric current in response sensitivity
. photosensitivity spectral sensitivity to irridation. thermal energy electric generators . . light adaptation . direct power generators thermodynamics . . photoelectric generators . . . photovoltaic cells phototropism light (visible radiation) photothermal deflection spectroscopy photographic emulsions (added November 1998) . . . solar cells photophilic plants PDS (spectroscopy) ... vertical junction solar cells photoreceptors spectroscopy . photothermal deflection GS electronic equipment photoresists . solid state devices . . semiconductor devices

spectroscopy

... photovoltaic cells

optical measurement

RT

sensitometry

thresholds (perception)

| solar cells  | RT :           | aerothermochemistry                           |           | fusibility                                 |
|--|----------------|---|-----------|--|
| vertical junction solar cells                      |                | atmospheric chemistry                         | ۰         | high resistance                            |
| photoelectric cells                                |                | chemical analysis                             |           | hygroscopicity                             |
| . photovoltaic cells                               |                | chemistry                                     |           | hysteresis                                 |
| solar cells  |                | computational chemistry                       |           | impedance                                  |
| vertical junction solar cells RT amorphous silicon |                | molecular dynamics<br>nuclear chemistry       |           | internal friction isotropy                 |
| ∞ cells  |                | physics                                       |           | magnetic dipoles                           |
| electrochemical cells                              |                | thermochemistry                               |           | magnetic properties                        |
| photoconductive cells                              |                | thermodynamics                                |           | mechanical properties                      |
| photoelectric materials                            | ·              |   |           | optical properties                         |
| short circuit currents                             | physical (     | constants testing reactor                     |           | permeability                               |
| SIS (semiconductors)                               | USE            | nuclear research and test reactors            |           | polymorphism                               |
| solar generators                                   | ,              | water cooled reactors                         |           | propellant properties                      |
|  |                |   | ۰         | properties                                 |
| photovoltaic conversion                            |                | endurance                                     |           | surface properties                         |
| GS energy conversion                               | USE            | physical fitness                              |           | thermal expansion                          |
| . solar energy conversion                          | physical       | examinations                                  |           | thermodynamic properties                   |
| photovoltaic conversion                            |                | flight fitness                                |           | thixotropy                                 |
| thermophotovoltaic conversion<br>RT ∞ conversion   |                | mobile quarantine facility                    |           | transmissivity<br>transport properties     |
| photovoltaic effect                                |                | percussion                                    |           | virtual properties                         |
| solar arrays                                       | i              | personnel selection                           |           | viscosity                                  |
| solar cells  |                |   |           | viscosity                                  |
|  | physical       |   | ∞ physic  | al sciences                                |
| photovoltaic effect                                |                | exercise                                      | SN        | (USE OF A MORE SPECIFIC TERM IS            |
| DEF The production of a voltage difference         |                | gymnastics                                    |           | RECOMMENDEDCONSULT THE TERMS               |
| across a pn junction resulting from the absorp-    |                | physical exercise                             | RT        | LISTED BELOW) astronomy                    |
| tion of photon energy. The voltage difference is   |                | hyperkinesia                                  |           | chemistry                                  |
| caused by the internal drift of holes and elec-    |                | angina pectoris                               | · ·       | geology                                    |
| trons.   |                | athletes<br>atrophy                           |           | life sciences                              |
| GS electrical properties                           |                | exercise physiology                           | ۰         | ∞ metallurgy                               |
| photovoltaic effect                                |                | fatigue (biology)                             |           | meteorology                                |
| photoelectricity                                   |                | hypokinesia                                   |           | mineralogy                                 |
| . photoelectric effect                             |                | physical fitness                              |           | oceanography                               |
| photovoltaic effect<br>RT ∞ effects                |                | running                                       | ۰         | ∘ physics                                  |
| photoelectric emission                             | :              | swimming                                      | ۰         | ∘ science                                  |
| photoelectrons                                     | 1              | treadmills                                    |           |  |
| photovoltages                                      | 1              | walking                                       | physica   |  |
| photovoltaic conversion                            |                | _   | UF        | exertion                                   |
| threshold voltage                                  | physical       |   | GS        | work                                       |
| unconcia voltago                                   |                | physiological factors                         | DT        | . physical work                            |
| phreatophytes                                      |                | physical factors                              | RT        | effort                                     |
| GS plants (botany)                                 |                | physics                                       |           | horsepower<br>tasks                        |
| . phreatophytes                                    | ,              | work  |           | treadmills                                 |
| RT trees (plants)                                  | physical       | fitness                                       |           | work capacity                              |
|  |                | physical endurance                            |           | workloads (psychophysiology)               |
| phthalates   |                | fitness                                       |           | workloads (psychophysiology)               |
| GS esters  |                | physical fitness                              | physici   | ans  |
| . phthalates                                       |                | athletes                                      | GS        | personnel                                  |
| phthalimides                                       |                | competition                                   |           | . medical personnel                        |
| (added August 2004)                                |                | exercise physiology                           |           | physicians                                 |
| DEF The imide of phthalic acids.                   |                | flight fitness                                | RT        | stethoscopes                               |
| GS nitrogen compounds                              | 1              | physical exercise                             |           |  |
| . imides   |                | physiological tests                           | ∞ physic: |  |
| phthalimides                                       |                | posture                                       | SN        | (USE OF A MORE SPECIFIC TERM IS            |
| RT amides  |                | sports medicine                               |           | RECOMMENDEDCONSULT THE TERM: LISTED BELOW) |
|  |                | swimming                                      | RT        | astrophysics                               |
| phthalocyanin                                      |                | treadmills                                    |           | atmospheric physics                        |
| GS organic compounds                               | ,              | work capacity                                 |           | atomic physics                             |
| . cyclic compounds                                 | mbusisal       | amtica  |           | biophysics                                 |
| heterocyclic compounds                             | physical<br>RT |   |           | branching (physics)                        |
| phthalocyanin                                      |                | crystal optics<br>fiber optics                |           | charm (particle physics)                   |
| RT pigments  |                | geometrical optics                            |           | cloud physics                              |
| 1 11 11 2  |                | gradient index optics                         |           | combustion                                 |
| phugoid oscillations                               |                | optical properties                            |           | combustion physics                         |
| USE oscillations                                   |                | optics  |           | condensed matter physics                   |
| pitch (inclination)                                |                | quantum optics                                |           | degenerate matter                          |
| phylloquinone                                      |                | quantum theory                                |           | electrophysics<br>field theory (physics)   |
| UF vitamin K                                       |                | theories                                      |           | flavor (particle physics)                  |
| GS organic compounds                               |                |   |           | geophysics                                 |
| . cyclic compounds                                 | ∞ physical     |   |           | health physics                             |
| heterocyclic compounds                             |                | (USE OF A MORE SPECIFIC TERM IS               |           | Health Physics Research Reactor            |
| phylloquinone                                      |                | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW) |           | kinetics                                   |
| . lipids   |                | acoustic properties                           |           | low temperature physics                    |
| phylloquinone                                      | ;              | adsorptivity                                  |           | magnetomechanics (physics)                 |
| vitamins   |                | Bragg angle                                   |           | matter (physics)                           |
| . phylloquinone                                    |                | buoyancy                                      |           |  |
| RT osteocalcin                                     |                | chemical properties                           | ٥         | molecular physics                          |
| at a start at a set of                             |                | color   |           | neutron physics                            |
| physical chemistry                                 |                | density (mass/volume)                         |           | nuclear physics                            |
| DEF The application of the laws, principles,       |                | diffusivity                                   |           | nuclei (nuclear physics)                   |
| and techniques of physics to the study of chemi-   |                | durability                                    |           | physical factors                           |
| cal properties, transformations, and reactions.    |                | eddy currents                                 |           | physical sciences                          |
| GS physical chemistry                              |                | elastic properties                            | ۰         |  |
| . cryochemistry                                    |                | electrical properties                         |           | plasma physics                             |
| . quantum chemistry                                | ,              | electromagnetic properties                    |           | plasmas (physics)                          |

# **Physics and Chemistry Experiment in Space**

polymer physics environments bone demineralization psychophysics exercise physiology catabolism fluid shifts (biology) quenching (atomic physics) cytogenesis radio physics geotropism differentiation (biology) reactor physics gonads digesting reentry physics gravitational physiology heart function rigid rotors (plasma physics) head down tilt hemodynamics heat acclimatization homeostasis selection rules (nuclear physics) heat stroke menstruation hematopoiesis metabolism solar physics hematopoietic system mitosis human reactions strange attractors narcosis theoretical physics noise pollution physiochemistry regeneration (physiology) radiation effects Physics and Chemistry Experiment in reaction time regularity respiration relative biological effectiveness (RBE) A group of Space Shuttle payloads shock (physiology) ∞ science consisting of various space experiments. Used space adaptation syndrome shock (physiology) stress (physiology) for PACE. sports medicine UF PACE thermoregulation GS experimentation physiological factors tolerances (physiology) Physics and Chemistry physiological factors GS . physical factors **Experiment in Space** phytochrome (added August 2004)
DEF A blue-green biliprotein widely used in payloads astronaut performance Space Shuttle payloads
 Physics and Chemistry chemical defense chemical warfare the plant kingdom. Experiment in Space spaceborne experiments
Physics and Chemistry flight stress (biology) GS biopolymers noise pollution . proteins . . phytochrome sex factor organic compounds **Experiment in Space** physiological responses . proteins RT ∞ chemistry GS physiological effects space flight . phytochrome . physiological responses pigments . hemodynamic responses physiochemistry phytochrome biochemistry responses GS photosynthesis . **physiochemistry** bioavailability physiological responses plant physiology . hemodynamic responses baroreflexes plants (botany) ∞ chemistry vegetation growth desynchronization (biology) exercise physiology evoked response (psychophysiology) gravitational physiology phytoplankton molecular biology organic chemistry DEF The aggregate of passively floating or head up tilt drifting plant organisms in aquatic ecosystems. physiology pathological effects tilt-table test psychotropic drugs plankton phytoplankton ∞ science zeitgebers plants (botany) physiography . aquatic plants physiological telemetry USE geomorphology phytoplankton USE biotelemetry algae physiologic availability (added August 2001) dissolved organic matter physiological tests marine biology USE bioavailability physiological tests Sea-viewing Wide Field-of-view body sway test carboxyhemoglobin test Sensor physiological acceleration water pollution ear pressure test The acceleration experienced by a huzooplankton man or an animal test subject in an accelerating . electronystagmography tilt-table test vehicle rates (per time) vestibular tests GS DEF Apparatus for the growth of plants un-. physiological acceleration Weber test der a variety of controlled environmental condi-RT ∞ acceleration cardiac output tions. Used for germinators and growth chamacceleration (physics) cardiography bers acceleration stresses (physiology) certification germinators UF deceleration environmental index growth chambers gravitational physiology environmental tests germination impact acceleration mobile quarantine facility greenhouses personnel selection growth physiological defenses physical fitness plants (botany) physiological defenses pilot selection immunity psychomotor performance Piaggio aircraft acquired immunodeficiency syndrome sensorimotor performance Piaggio aircraft antibodies stroke volume . P-166 aircraft antigens Taylor manifest anxiety scale . PD-808 aircraft biocompatibility ∞ tests RT ∞ aircraft ∞ defense treadmills Piaggio P-166 aircraft immune systems urinalysis inoculum USE P-166 aircraft physiology interferon DEF The science that treats of the functions Piaggio-Douglas PD-808 aircraft physiological effects of living organisms or their parts, as distin-USE PD-808 aircraft physiological effects guished from morphology or anatomy. GS **physiology**. electrophysiology . physiological responses Piasecki aircraft . hemodynamic responses GS Piasecki aircraft apoptosis exercise physiology . VZ-8 aircraft biological effects bone demineralization gravitational physiology RT ∞ aircraft . neurophysiology plant physiology cholera pickling (metallurgy) comfort . psychophysiology DEF Preferential removal of oxide or mill respiratory physiology underwater physiology

scale from the surface of a metal by immersion

usually in an acidic or alkaline solution.

. chemical cleaning

GŚ

cleaning

diving (underwater)

electrolyte metabolism

environmental engineering

RT

aging (biology)

blood circulation

∞ effects

. pickling (metallurgy) vulnerability praetersonic devices descaling ultrasonic cleaning piers metal films metal finishing USE wharves piezoelectricity DEF The proscale (corrosion) The property exhibited by some asypiezoactuators metrical crystalline materials which when sub-(added January 2001) pickoffs jected to strain in suitable directions develop USF USE piezoelectric actuators sensors polarization proportional to the strain. GS electrical properties piezoelectric actuators pickups . piezoelectricity (added January 2001) USE sensors mechanical properties Any actuator that uses the piezoelecpiezoelectricity tric effect as a basis for its function. crystal oscillators picosecond pulses UF piezoactuators elastic properties GS pulses GS actuators electricity picosecond pulses piezoelectric actuators electrostriction amplitudes electromechanical devices electromagnetic missiles electromagnetic pulses piezoresistive transducers . piezoelectric actuators pyroelectricity RT active control laser outputs microelectromechanical systems pulse rate piezometers piezoelectric motors pulsed radiation GS measuring instruments piezoelectric transducers time signals . pressure gages smart materials piezometers smart structures picrates RT seepage ultrasonic wave transducers GS nitrogen compounds vibration damping . nitro compounds piezomotors picrates piezoelectric ceramics (added January 2001) ... ammonium picrates DEF Ceramic material with piezoelectric USE piezoelectric motors properties similar to those of some natural cryspicture elements piezoresistive transducers USE pixels GS GS transducers piezoelectric ceramics . piezoresistive transducers lead zirconate titanates picture tubes . piezoelectric gages smart materials UF kinescopes piezoelectric crystals GS electron tubes piezoelectricity piezoelectric crystals . vacuum tubes GS crystals . . cathode ray tubes . crystal oscillators pigeons . picture tubes . . piezoelectric crystals video equipment GS animals oscillators . vertebrates picture tubes . crystal oscillators . . birds display devices piezoelectric crystals ... pigeons flying spot scanners microsonics raster scanning piezoresistive transducers television equipment piggyback systems quartz transducers air launching single crystals PIDV (velocimetry) multistage rocket vehicles USE particle image velocimetry payload mass ratio piezoelectric gages payloads GS measuring instruments Saenger space transportation system piedmonts . pressure gages UF pediments ∞ systems piezoelectric gages pediplains transducers landforms . piezoelectric transducers pigments . terraces (landforms) piezoelectric gages GS pigments . . plateaus carotene . piezoresistive transducers piedmonts . piezoelectric gages . carotenoids . . . Central Piedmont (US) . chlorophylls pressure sensors RT coastal plains . cytochromes strain gages mountains . melanin . phytochrome piezoelectric motors pi-electrons (added January 2001) visual pigments additives GS particles DEF Any motor that uses the piezoelectric . charged particles albinism effect to produce its mechanical output. . . energetic particles anatase piezomotors ... electrons chromophores GS electromechanical devices .... pi-electrons dopa . electric motors . corpuscular radiation fillers . piezoelectric motors . . energetic particles motors inks . . . electrons myoglobin . electric motors . . pi-electrons . piezoelectric motors paints . elementary particles phthalocyanin microelectromechanical systems . . fermions plastids micromotors ... leptons piezoelectric actuators rutile . . . electrons piezoelectric transducers skin (anatomy) . . . . pi-electrons
RT molecular electronics ultrasonic wave transducers pigs (swine) nuclear particles piezoelectric transducers USE swine Transducers that depend for their oppiercing eration on the interaction between electric Pike's Peak (CO) charge and the deformation of certain materials puncturing landforms having piezoelectric properties. Note: Some RT cutting . peaks (landforms) drilling crystals and specially processed ceramics have Pike's Peak (CO) extruding piezoelectric properties. Colorado transducers forging GS mountains metal working piezoelectric transducers . piezoelectric gages penetration interdigital transducers piezoelectric actuators pile foundations

piezoelectric motors

perforating ∞ perforation

spark machining

foundations

. pile foundations

| RT ∞ piles  | GS             | flight characteristics                                       |           | pilots (personnel)   |
|---|----------------|--|-----------|--|
| , wiles   |                | pilot ratings  |           | aircraft pilots  |
| ∞ piles SN (USE OF A MORE SPECIFIC TERM IS  |                | Cooper-Harper ratings ratings                                |           | test pilots . operators (personnel)  |
| RECOMMENDEDCONSULT THE TERMS  |                | . pilot ratings  |           | pilots (personnel)   |
| LISTED BELOW) RT nuclear reactors   |                | Cooper-Harper ratings  |           | aircraft pilots  |
| pile foundations  | RT             | aircraft performance   | DT        | test pilots  |
| pilocarpine   |                | assessments controllability                                  | KI        | astronauts cosmonauts  |
| GS bases (chemical)   |                | helicopter performance                                       |           | crews  |
| . alkaloids   |                |  |           | flight crews   |
| pilocarpine   | pilot s<br>GS  | election<br>selection  | c         | ∘ pilots   |
| nitrogen compounds<br>. alkaloids   | 03             | . personnel selection  | Pilot's A | Associate  |
| pilocarpine   |                | . pilot selection  | (add      | ed October 1997)   |
| organic compounds   | RT             | 1 , 0  | USE       | pilot support systems  |
| . cyclic compounds<br>heterocyclic compounds  |                | psychological tests  | p-i-n did | odes   |
| alkaloids   | pilot s        | upport systems   | USE       | diodes   |
| pilocarpine   |                | ded October 1997)  |           | p-i-n junctions  |
| pilot orror   | SN             | (LIMITED TO ADVANCED FLIGHT VEHICLE SYSTEMS FOR INTEGRATING, | p-i-n ju  | nctions  |
| pilot error UF flight technical error   |                | INTERPRETING, AND PRESENTING FLIGHT OR MISSION RELATED       |           | p-i-n diodes   |
| GS errors   |                | INFORMATION)   | GS        | semiconductor junctions  |
| pilot error   | UF             | cockpit assistant systems<br>Pilot's Associate               | RT        | . <b>p-i-n junctions</b><br>diodes   |
| RT aircraft accidents collisions  | GS             |  |           | o junctions  |
| crash landing   |                | . pilot support systems                                      |           | solar cells  |
| crashes   |                | support systems  | ninah a   |  |
| human factors engineering   | RT             | . pilot support systems artificial intelligence              | pinch e   | The result of an electromechanical   |
| human performance<br>midair collisions  |                | automatic pilots   |           | nat constricts, and sometimes momen-   |
| pilot induced oscillation   |                | avionics   |           | ptures, a molten conductor carrying cur-   |
| wilet in decead a calletie o  |                | cockpits decision support systems                            |           | a high density. The self contradiction of a<br>column carrying large currents due to |
| pilot induced oscillation  DEF Oscillations of a flying aircraft caused                     |                | expert systems   |           | raction of this current with its own mag-  |
| by transients and system changeovers, by pilot  |                | flight management systems                                    | netic fie | ıld.   |
| overreaction upon such transients, or by mis-   |                | human-computer interface                                     | GS        | pinch effect   |
| leading pilot cues or excessive pilot gain in modern high-gain, high order aircraft control |                | knowledge based systems<br>man machine systems               |           | . plasma pinch screw pinch   |
| systems.  |                | situational awareness  |           | theta pinch  |
| RT aerodynamic stability  | !              | atutu u  |           | zeta pinch   |
| aircraft control  | pilot tr<br>GS | education  | RT        | . reverse field pinch<br>cylindrical plasmas   |
| aircraft stability control stability  |                | . flight training  |           | ∘ effects  |
| high gain   |                | pilot training   |           | magnetic fields  |
| longitudinal control  | RT             | astronaut training aviation psychology                       |           | magnetohydrodynamics plasma compression  |
| man machine systems nonstabilized oscillation   |                | ejection injuries  |           | plasma control   |
| pilot error   |                | ejection training  |           | relativistic plasmas   |
| pilot performance   |                | flight simulators  |           | stellarators   |
| self induced vibration<br>stable oscillations   |                | space flight training training simulators                    |           | thermonuclear power generation thermonuclear reactions                               |
| transient oscillations  |                | training contained   |           | zeta thermonuclear reactor   |
| transferri econicilerio   |                | centrifuges  |           |  |
| pilot landing aid television system   | USE            | human centrifuges  | pineal (  | gland<br>anatomy   |
| USE PLAT system   | pilotle        | ss aircraft  | 00        | . glands (anatomy)   |
| pilot opinion ratings   | SN             |  |           | endocrine glands   |
| (added August 1999)   | UF             | ÀUTONOMOUS CONTROL)  Darkstar unmanned aerial vehicle        |           | pineal gland   |
| USE pilot ratings   |                | unmanned aerial vehicles                                     |           | . nervous system central nervous system  |
| pilot performance   | GS             | pilotless aircraft . drone aircraft                          |           | brain  |
| GS human performance  |                | target drone aircraft  |           | diencephalon   |
| . <b>pilot performance</b><br>blackout prevention   |                | Firebee 2 target drone aircraft                              | RT        | <b>pineal gland</b><br>melatonin   |
| RT aircraft performance   |                | Jindivik target aircraft                                     | IXI       | melatoriiri  |
| astronaut performance   | RT             | . X-45 aircraft<br>∞ aircraft                                |           | cameras  |
| flight fatigue  | IXI            | balloons   |           | Cameras which have no lenses, but  |
| intravehicular activity man operated propulsion systems                                     |                | drone vehicles   |           | essentially of a darkened box with a<br>ple in one side, so that an inverted image   |
| operator performance  |                | light aircraft   |           | de objects is projected on the opposite  |
| ∞ performance   | ,              | ∞ military aircraft<br>oblique wings                         |           | ere it is recorded on photographic film.   |
| pilot induced oscillation<br>psychomotor performance  |                | planetary aerial vehicles                                    | GS        | optical equipment . cameras  |
| sensorimotor performance  |                | reconnaissance aircraft                                      |           | pinhole cameras  |
| situational awareness   |                | remotely piloted vehicles<br>unmanned aircraft systems       |           | photographic equipment   |
| nilet plante  |                | annamou anoran systems                                       |           | . cameras<br>pinhole cameras   |
| pilot plants RT industrial plants   | ∞ pilots       |  | RT        | apertures  |
| models  | SN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | 111       | photography  |
| product development   | 5-             | LISTED BELOW)  |           | Pinhole Occulter Facility  |
| prototypes  | RT             | •  |           | pinholes   |
| pilot ratings   |                | automatic pilots pilots (personnel)                          | Pinhole   | Occulter Facility  |
| (added August 1999)   |                | test pilots  |           |  |
| DEF Subjective assessment of the handling   | n!!n#          | (naraamal)   |           | . astronomical observatories   |
| and stability characteristics of an aircraft or other flight vehicle.                       | pilots (<br>GS | (personnel) personnel  |           | solar observatories Pinhole Occulter Facility  |
| UF pilot opinion ratings  | 00             | . flying personnel   | RT        | occultation  |
| =   |                |  |           |  |

pinhole cameras unmanned spacecraft RT ∞ probes pinholes space probes spaceborne astronomy . . Pioneer space probes Pioneer 12 space probe Pioneer 4 space probe USE Pioneer Venus spacecraft pinholes Juno 2 launch vehicle casting Pioneer F space probe RT USE Pioneer 10 space probe castings defects Pioneer 5 space probe Pioneer G space probe interstices interplanetary spacecraft . Pioneer space probes leakage USE Pioneer 11 space probe pinhole cameras Pioneer 5 space probe Pioneer project Pinhole Occulter Facility unmanned spacecraft programs
. NASA programs porosity GS . space probes . . Pioneer space probes . . NASA space programs pinnacles Pioneer 5 space probe peaks (landforms) USE ... Pioneer project Thor Able rocket vehicle . projects pinning . Pioneer project (LIMITED TO ELECTRONICS)
Sites within a superconducting mate-. space programs Pioneer 6 space probe . . NASA space programs rial that are produced by localizing inclusions, GS interplanetary spacecraft . Pioneer project dislocations, voids, etc., which provide a means . Pioneer space probes lunar probes of resisting flux motion (flux jumps) due to . . Pioneer 6 space probe Pioneer space probes Lorenz forces. SN (limited to electronics). unmanned spacecraft space probes GS pinning . space probes flux pinning . . Pioneer space probes Pioneer Saturn spacecraft crystal defects Pioneer 6 space probe USE Pioneer 11 space probe crystal dislocations Delta launch vehicle current density Juno 2 launch vehicle Pioneer space probes magnetic flux GS interplanetary spacecraft superconductors (materials) Pioneer space probes . . Pioneer 1 space probe Pioneer 7 space probe pins Pioneer 2 space probe interplanetary spacecraft GS fasteners Pioneer 3 space probe . Pioneer space probes . pins Pioneer 4 space probe . Pioneer 7 space probe RT couplings Pioneer 5 space probe unmanned spacecraft holders Pioneer 6 space probe . space probes latches Pioneer 7 space probe . . Pioneer space probes rivets Pioneer 8 space probe . Pioneer 7 space probe ∞ spikes Pioneer 9 space probe Delta launch vehicle studs (structural members) Pioneer 10 space probe Juno 2 launch vehicle Pioneer 11 space probe pintles .. Pioneer Venus 2 entry probes pivots Pioneer Venus 2 night probe rudders Pioneer 8 space probe . . . Pioneer Venus 2 sounder probe shafts (machine elements) interplanetary spacecraft unmanned spacecraft Pioneer space probes . space probes pion beams Pioneer 8 space probe . . Pioneer space probes beams (radiation) GS ... Pioneer 1 space probe unmanned spacecraft . particle beams . space probes Pioneer 2 space probe . pion beams . . Pioneer space probes Pioneer 3 space probe RT neutral beams Pioneer 8 space probe Pioneer 4 space probe neutron beams Pioneer 5 space probe RT Juno 2 launch vehicle Pioneer 6 space probe Pioneer 7 space probe ∞ probes Pioneer 1 space probe interplanetary spacecraft Pioneer 8 space probe . Pioneer space probes Pioneer 9 space probe Pioneer 9 space probe Pioneer 1 space probe Pioneer 10 space probe Pioneer 11 space probe GS interplanetary spacecraft unmanned spacecraft . Pioneer space probes . space probes Pioneer Venus 2 entry probes
 Pioneer Venus 2 night probe
 Pioneer Venus 2 sounder probe . . Pioneer 9 space probe . . Pioneer space probes unmanned spacecraft Pioneer 1 space probe . space probes Thor Able rocket vehicle . . Pioneer space probes Juno 2 launch vehicle Pioneer project Pioneer Venus 1 spacecraft ... Pioneer 9 space probe Pioneer 2 space probe interplanetary spacecraft . Pioneer space probes RT ∞ probes Pioneer Venus 2 spacecraft . Pioneer 2 space probe unmanned spacecraft Pioneer Venus spacecraft solar probes Pioneer 10 space probe
UF Pioneer F space probe . space probes Pioneer Venus 1 spacecraft . . Pioneer space probes interplanetary spacecraft DEF This orbiter spacecraft is the first of two Pioneer 2 space probe . Pioneer space probes launched on a seven month journey to observe . Pioneer 10 space probe the planet Venus, its atmosphere and clouds. It Pioneer 3 space probe unmanned spacecraft GS interplanetary spacecraft was launched May 20, 1978 and is still opera-. space probes . Pioneer space probes tional. Used for Pioneer Venus Orbiter. . . Pioneer space probes . . Pioneer 3 space probe Pioneer Venus Orbiter ... Pioneer 10 space probe unmanned spacecraft interplanetary spacecraft RT ∞ probes . Pioneer Venus spacecraft . space probes Pioneer Venus 1 spacecraft . . Pioneer space probes unmanned spacecraft . Pioneer 3 space probe . Pioneer Venus spacecraft Pioneer 11 space probe RT Juno 2 launch vehicle . Pioneer Venus 1 spacecraft UF Pioneer G space probe Pioneer Saturn spacecraft Pioneer 4 lunar probe RT Pioneer space probes USE Pioneer 4 space probe interplanetary spacecraft ∞ probes . Pioneer space probes space probes Pioneer 4 space probe . Pioneer 11 space probe Pioneer Venus 2 entry probes
DEF Collective term for the five Pioneer
Venus atmospheric probes. They are Pioneer unmanned spacecraft Pioneer 4 lunar probe

. space probes

. . Pioneer space probes

... Pioneer 11 space probe

interplanetary spacecraft

. Pioneer space probes

. Pioneer 4 space probe

GS

Venus 2 day probe, Pioneer Venus 2 night

# Pioneer Venus 2 night probe

probe, Pioneer Venus 2 North probe, Pioneer Venus 2 sounder probe, and Pioneer Venus 2 transporter bus GS interplanetary spacecraft . Pioneer space probes Pioneer Venus 2 entry probes ... Pioneer Venus 2 night probe . Pioneer Venus 2 sounder probe . Pioneer Venus spacecraft . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes Pioneer Venus 2 night probe Pioneer Venus 2 sounder probe . Venus probes . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes ... Pioneer Venus 2 night probe . . . Pioneer Venus 2 sounder probe unmanned spacecraft . Pioneer Venus spacecraft . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes ... Pioneer Venus 2 night probe . . . Pioneer Venus 2 sounder probe . space probes . . Pioneer space probes
. . . Pioneer Venus 2 entry probes Pioneer Venus 2 night probe Pioneer Venus 2 sounder probe Venus probes . Pioneer Venus 2 spacecraft Pioneer Venus 2 entry probes . Pioneer Venus 2 night probe . Pioneer Venus 2 sounder probe RT ∞ probes Pioneer Venus 2 Multiprobe spacecraft USE Pioneer Venus 2 spacecraft Pioneer Venus 2 night probe interplanetary spacecraft . Pioneer space probes . . Pioneer Venus 2 entry probes
. . . Pioneer Venus 2 night probe . Pioneer Venus spacecraft Pioneer Venus 2 spacecraft
Pioneer Venus 2 entry probes Pioneer Venus 2 night probe . Venus probes . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes
... Pioneer Venus 2 night probe unmanned spacecraft . Pioneer Venus spacecraft . Pioneer Venus 2 spacecraft . Pioneer Venus 2 entry probes .... Pioneer Venus 2 night probe . space probes . . Pioneer space probes ... Pioneer Venus 2 entry probes . Pioneer Venus 2 night probe Venus probes . . . Pioneer Venus 2 spacecraft .... Pioneer Venus 2 entry probes .... Pioneer Venus 2 night probe Pioneer Venus 2 sounder probe GS interplanetary spacecraft . Pioneer space probes . Pioneer Venus 2 entry probes . Pioneer Venus 2 sounder probe . Pioneer Venus spacecraft . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes .... Pioneer Venus 2 sounder probe . Venus probes . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes .... Pioneer Venus 2 sounder probe unmanned spacecraft . Pioneer Venus spacecraft . . Pioneer Venus 2 spacecraft . Pioneer Venus 2 entry probes Pioneer Venus 2 sounder probe

. . Pioneer space probes ... Pioneer Venus 2 entry probes .... Pioneer Venus 2 sounder probe . . Venus probes . . . Pioneer Venus 2 spacecraft . . . . Pioneer Venus 2 entry probes . . . . Pioneer Venus 2 sounder probe Pioneer Venus 2 spacecraft DEF This multiprobe spacecraft, launched on its Venus mission in August 1978, comprises a Transporter Bus, a sounder probe, and three identical probes (North, night, and day) which separately investigated and photographed the atmosphere, clouds and related phenomena. The multiprobe spacecraft traveled about 354 million kilometers. It entered Venus atmosphere on December 9, 1978 and all probes transmitted data. Used for Pioneer Venus 2 Multiprobe spacecraft. Pioneer Venus 2 Multiprobe spacecraft interplanetary spacecraft . Pioneer Venus spacecraft ... Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes ... Pioneer Venus 2 night probe Pioneer Venus 2 sounder probe Pioneer Venus 2 transporter bus . Venus probes Pioneer Venus 2 spacecraft . Pioneer Venus 2 entry probes . . . . Pioneer Venus 2 night probe .... Pioneer Venus 2 sounder probe .... Pioneer Venus 2 transporter bus unmanned spacecraft . Pioneer Venus spacecraft Pioneer Venus 2 spacecraft ... Pioneer Venus 2 entry probes Pioneer Venus 2 night probe Pioneer Venus 2 sounder probe Pioneer Venus 2 transporter bus . space probes .. Venus probes Pioneer Venus 2 spacecraft . . . Pioneer Venus 2 entry probes . . . . Pioneer Venus 2 night probe . . . . Pioneer Venus 2 sounder probe . . . Pioneer Venus 2 transporter bus Pioneer space probes  $\infty$  probes ∞ spacecraft Pioneer Venus 2 transporter bus interplanetary spacecraft . Pioneer Venus spacecraft ... Pioneer Venus 2 spacecraft ... Pioneer Venus 2 transporter bus . Venus probes . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 transporter unmanned spacecraft . Pioneer Venus spacecraft . . Pioneer Venus 2 spacecraft ... Pioneer Venus 2 transporter bus . space probes . . Venus probes ... Pioneer Venus 2 spacecraft .... Pioneer Venus 2 transporter bus RT ∞ probes Pioneer Venus Orbiter USE Pioneer Venus 1 spacecraft Pioneer Venus spacecraft UF Pioneer 12 space probe

interplanetary spacecraft

. Pioneer Venus spacecraft

. Pioneer Venus 1 spacecraft

... Pioneer Venus 2 spacecraft
... Pioneer Venus 2 entry probes
.... Pioneer Venus 2 night probe

. . . . Pioneer Venus 2 sounder probe

. . Pioneer Venus 2 transporter bus unmanned spacecraft Pioneer Venus spacecraft ... Pioneer Venus 1 spacecraft . . Pioneer Venus 2 spacecraft . . . Pioneer Venus 2 entry probes . . . . Pioneer Venus 2 night probe . Pioneer Venus 2 sounder probe . . Pioneer Venus 2 transporter bus RT Pioneer space probes ∞ probes space probes pions GS particles . elementary particles . . bosons ... mesons . . . . pions . . hadrons . . . mesons . . . pions . nuclear particles . . bosons ... mesons . . . pions RT baryons charged particles kaons pipe flow Kirchhoff-Helmholtz flow fluid flow . gas flow . . pipe flow . internal flow . . pipe flow parallel flow . . pipe flow cavity flow channel flow choked flow critical flow flow noise laminar flow liquid flow mass flow multiphase flow open channel flow orifice flow pipes (tubes) pressure gradients single-phase flow steady flow steam flow subcritical flow supercritical flow turbulent flow uniform flow unsteady flow water flow water hammer water pressure pipe nozzles RT exhaust systems inlet nozzles intake systems nozzle geometry ∞ nozzles openings outlets tanks (containers) pipelines GS pipelines sewers crossings ∞ lines materials handling pipes (tubes) pumps siphons steam flow storage
 storage tanks

transportation

waste disposal

. space probes

|               | water hammer   |                              | combustion engines  |                 | nic flow. (Pronounced pee-toe. After  |
|---------------|--|------------------------------|---|-----------------|---|
|               | ing (computers)  | pistons<br>reciproc          |   | for Pres        | tot, 1695-1771, French scientist.) Used ton tubes.                              |
|               | Processing techniques for improving pability of computer systems by model- | rotary e<br>Wankel           | 8   | RT              | Preston tubes flow measurement  |
| •             | equencing control, resource allocation,                                    |                              |   |                 | flowmeters  |
| etc.<br>GS    | data processing  | piston theory<br>RT compres  | ngies   |                 | pressure measurement  |
| 00            | . pipelining (computers)   | fluid dyr                    |   |                 | protuberances<br>speed indicators   |
| RT            | associative processing (computers)   | pistons                      |   |                 | static pressure   |
|               | data processing equipment  | ∞ theories                   |   | ~               | tubes   |
|               | multiprocessing (computers)  | pistons                      |   |                 | velocity measurement  |
|               | multiprogramming parallel programming                                      | GS pistons                   |   |                 | Venturi tubes   |
|               | RISC processors  |                              | etic pistons  | ∞ pits          |   |
|               | time sharing   |                              | tion chambers   | SN              | (USE OF A MORE SPECIFIC TERM IS   |
|               | vector processing (computers)  | engine                       |   |                 | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                                      |
| Dinor o       | irozoft  |                              | on engines combustion engines                               | RT              | pits (excavations)  |
| Piper a<br>GS | light aircraft   | piston e                     | •   |                 | pitting   |
|               | . Piper aircraft   | piston the                   |   | nits (ex        | cavations)  |
|               | PA-34 Seneca aircraft  | plunger                      |   | RT              | boreholes   |
| RT «          | ∞ aircraft   | reciproc                     | ation   |                 | excavation  |
|               | general aviation aircraft  | PIT (rocket engir            | nes)  |                 | mines (excavations)   |
| piperid       | ine  | (added April 2               |   | ~               | pits  |
| GS            | bases (chemical)   | USE pulsed                   | inductive thrusters   |                 | sumps   |
|               | piperidine   | . 24 . 1                     |   | pitting         |   |
|               | organic compounds  | ∞ <b>pitch</b><br>SN (USE OF | A MORE SPECIFIC TERM IS                                     | RT              | chemical attack   |
|               | . cyclic compounds heterocyclic compounds                                  | ŘECOM                        | MENDEDCONSULT THE TERMS                                     |                 | chipping  |
|               | piperidine   | LISTED I<br>UF tone          | BELOW)  |                 | corrosion corrosion resistance  |
| RT            | pyridines  | RT frequen                   | cies  |                 | corrosion tests   |
|               |  |                              | clination)  |                 | degradation   |
| pipes (<br>UF |  | pitch (m                     | aterial)  |                 | erosion   |
| GS            | tubing pipes (tubes)   | nitah (inalinatia            | m)  |                 | erosive burning   |
| 00            | . gas pipes  | pitch (inclinatio            | hicle, an angular displacement                              |                 | etching<br>hot corrosion  |
|               | . U bends  |                              | rallel to the lateral axis of the                           |                 | metal-water reactions   |
| RT «          | ∞ casing   |                              | or damping in pitch, phugoid                                | ~               | pits  |
|               | circular tubes<br>ducts  | oscillations, and            |   |                 | scoring   |
|               | fluid flow   |                              | g in pitch<br>I oscillations                                | pituitary       | , aland   |
|               | ∞ headers  | pitch an                     |   | UF              | hypophysis  |
|               | hoses  |                              | (inclination)   | GS              | anatomy   |
| •             | ∞ hydraulics   |                              | inclination)  |                 | glands (anatomy)  |
|               | internal flow<br>manifolds   |                              | (geometry)  |                 | endocrine glands  |
|               | pipe flow  | heaving                      | inal control  | RT              | <b>pituitary gland</b><br>brain   |
|               | pipelines  | 0                            | inal stability  | IXI             | hypothalamus  |
|               | risers   | ∞ motion                     | •   |                 | vasopressins  |
|               | siphons  | ∞ pitch                      |   |                 | 1   |
|               | syringes<br>∞ tubes  | roll                         |   | pituitary<br>UF | y hormones  |
|               |  | rotation<br>slopes           |   | GS              | growth hormone secretions   |
| pipette       |  |                              | augmentation  |                 | . endocrine secretions  |
| RT            | burettes   |                              | pitch propellers  |                 | hormones  |
|               | glassware<br>laboratory equipment  | yaw                          |   |                 | pituitary hormones  |
|               | laboratory oquipmont   | pitch (material)             |   |                 | adrenocorticotropin (ACTH) vasopressins   |
| Pirani (      |  |                              | idues from the destructive dis-                             |                 | vacoprocomo   |
| GS            | measuring instruments  | tillation of tars.           |   |                 | ocimetry)   |
|               | . pressure gages vacuum gages  | RT asphalt                   |   | USE             | particle image velocimetry  |
|               | Pirani gages   | oils<br>∞ pitch              |   | pivoted         | wing aircraft   |
|               | vacuum apparatus   | tars                         |   |                 | tilt wing aircraft  |
|               | . vacuum gages   |                              |   |                 | _   |
| RT            | Pirani gages<br>hot-wire flowmeters  | pitch angles                 |   | pivots          | The notice followed by a point in a   |
| IXI           | ionization gages   | USE pitch (i                 | nclination)   | DEF             | The paths followed by a point in a r of a circle as the circle rolls along in a |
|               | Knudsen gages  | pitch attitude cor           | ntrol   |                 | line. Used for trochoids.   |
|               | Mcleod gages   |                              | dinal control   | ÚF              | trochoids   |
|               | pressure measurement   |                              |   | RT              | bearings  |
| niston        | engines  | pitching momer<br>GS momen   |   |                 | gimbals   |
|               | Engines, especially internal combus-                                       |                              | y derivatives   |                 | hinges<br>pintles   |
| tion eng      | gines, in which a piston or pistons moving                                 |                              | ing moments   |                 | shafts (machine elements)   |
|               | nd forth work upon a crankshaft or other                                   |                              | amic coefficients   |                 | supports  |
|               | to create rotational movement. Used for                                    |                              | inal stability  |                 | swivels   |
| recipro       | cating engines.  reciprocating engines                                     |                              | s of inertia<br>noments                                     | PIX             |   |
| GS            | engines  | torque                       |   | USE             | plasma interaction experiment   |
|               | . piston engines   |                              | moments   |                 |   |
|               | diesel engines   | -14.4.4                      |   | pixels          | Observanden ( )   |
|               | free-piston engines  | pitot tubes                  | anded tubes or tube arrange                                 | DEF<br>They are | Shortened term for 'picture elements.'  |
| RT            | Stirling engines aircraft engines  |                              | ended tubes or tube arrange-<br>en pointed upstream, may be |                 | e image resolution elements in vidicon-<br>ectors. Used for picture elements.   |
|               | automobile engines   |                              | the stagnation pressure of the                              | UF              | picture elements  |
|               | external combustion engines  | fluid for subsonic           | flow; or the stagnation pres-                               | RT              | aerial photography  |
|               | fuel injection   | sure behind the              | tube's normal shock wave for                                |                 | electrophotometry   |

PL/1

RT

imaging techniques photographs photography remote sensing satellite imagery spectral mixture analysis vidicons GS languages . programming languages . PL/1

computer programming

machine oriented languages

plages (faculae) USE faculae

plagioclase

(added August 2004)

Cobol

compilers

FORTRAN

DEF A family of feldspar minerals with formulas ranging from pure sodium aluminum silicate (albite) to pure calcium aluminum silicate

GS aluminum compounds

. aluminum silicates

. . feldspars . . plagioclase

minerals

. feldspars

plagioclase

silicon compounds

. silicates

. . aluminum silicates

. . . feldspars

... plagioclase

RT aluminum oxides calcium silicates sodium silicates

#### plains

DEF Any flat areas, large or small, at a low elevation; specifically, extensive regions of comparatively smooth and level or gently undulating land, having few or no prominent surface irregularities. Plains sometime have a considerable slope, and usually at a low elevation with reference to surrounding areas. Plains may be either forested or bare of trees, and may be formed by deposition or by erosion.

GS land

. plains

coastal plains

flood plains

. . Llanos Orientales (Colombia)

pampas

. . playas

tundra

landforms

. plains

coastal plains

flood plains

. . Llanos Orientales (Colombia)

. . pampas

. . playas

. tundra

RT farmlands flats (landforms)

geography grasslands

Great Plains Corridor (North America)

plateaus steppes

topography wilderness

plan position indicators
DEF Display devices on which target blips are shown in plan position, thus forming a map-like display, with radial distance from the center representing range and with the angle of the radius vector representing azimuth angle. Used for PPI (position indicators).

PPI (position indicators)

display devices GS

. position indicators

. . plan position indicators

. radarscopes

plan position indicators

measuring instruments

. indicating instruments

. . position indicators plan position indicators

radar equipment

. radarscopes

plan position indicators

planar structures

RT flat layers

flat plates

flat surfaces

flatness ∞ structures

surface properties

Plancks constant

GS constants

. Plancks constant

black body radiation de Broglie wavelengths

electromagnetic radiation nuclear magnetic resonance

photons quantum theory

thermal radiation

Wentzel-Kramer-Brillouin method

plane strain

DEF A deformation of a body in which the displacement of all points in the body are parallel to a given plane, and the displacement values are not dependent on the distance perpendicular to the plane.

RT crack propagation elastic deformation fracture mechanics plane stress plastic deformation stress intensity factors stress-strain relationships

plane stress

GS stresses

plane stress

loads (forces) plane strain

stress concentration

plane waves

longitudinal waves GS

plane waves

beams (radiation)

cylindrical waves

elastic waves

evanescent waves

normal shock waves

∞ radiation

shock waves

solitary waves

sound waves spatial filtering

spherical waves

transverse waves

traveling waves ∞ waves

planet detection

(added January 2003)

DEF Detection of extrasolar planets using any of a number of direct and indirect observation techniques including astrometry, transit photometry, Doppler spectroscopy, and ground and space-based interferometry.

exoplanet detection extrasolar planet detection

GS detection

. planet detection

astrometry

astronomical interferometry astronomical photometry extrasolar planets

planetary systems

planet ephemerides ephemerides GS

planet ephemerides

geocentric coordinates

planets

planet origins

USE planetary evolution

planet X

(added June 1998)

USE hypothetical planets

planetariums

astronomical models display devices

planetary aerial vehicles

(added November 2006)

DEF Aircraft capable of flight in planetary and satellite atmospheres, and configured to support surface and atmospheric exploration missions.

UF planetary aircraft RT ∞ aircraft pilotless aircraft space exploration

planetary aircraft

(added November 2006)

USE planetary aerial vehicles

planetary atmospheres

(EXCLUDES EARTH ATMOSPHERE)

ènvironments . extraterrestrial environments

. . planetary environments

... planetary atmospheres . . . . helium hydrogen atmospheres

... Jupiter atmosphere

Mars atmosphere

Mercury atmosphere

. . . . Neptune atmosphere

planetary ionospheres Pluto atmosphere

Saturn atmosphere

. . . . Uranus atmosphere

. . . . Venus atmosphere . . . . Venus clouds

RT ∞ absorption

∞ atmospheres

atmospheric attenuation

atmospheric composition

atmospheric density

atmospheric energy sources

atmospheric temperature

Earth analogs
Earth atmosphere

ionopause lunar atmosphere nongray atmospheres Nozomi Mars Orbiter

organic solids

planetary meteorology

planetary rings

primitive Earth atmosphere

radiative transfer

radio occultation

satellite atmospheres Saturn rings

solar planetary interactions

terraforming

planetary bases

GS

space bases . planetary bases

. Mars bases

extraterrestrial resources in situ resource utilization space exploration stations

planetary boundary layer

DEF The layer of the atmosphere from the Earth's surface to the geostrophic wind level, including the surface boundary layer and the Ekman layer.

GS boundary lavers

planetary boundary layer atmospheric boundary layer core-mantle boundary

planetary composition

GS composition (property)

planetary composition lunar environment water landing Earth planetary structure planets extraterrestrial water protoplanets planetary limb gas giant planets terraforming In astronomy, the circular outer edge of Jupiter rings terrestrial planets Saturn rings thermal environments planetary limb siderophile elements Earth limb space exploration planetary evolution RT ∞ limbs structural properties (geology) planet origins lunar limb evolution (development)
. planetary evolution solar limb GS planetary cores The centers of planets. cosmology planetary magnetic fields RT magnetic fields cores planetary geology planetary magnetic fields . planetary cores protoplanetary disks geomagnetic tail . Earth core protoplanets geomagnetism
MESSENGER (spacecraft) core-mantle boundary solar nebula lunar core solar system evolution planetary magnetospheres planetary magnetotails planets stellar evolution stellar cores polar cusps solar planetary interactions planetary exploration planetary craters USE space exploration Collective term for craters on any of the planetary surfaces. planetary magnetospheres
SN (EXCLUDES EARTH MAGNETOSPHERE)
GS environments planetary explorer ĠS craters USE outer planets explorers planetary craters . Mars craters . extraterrestrial environments planetary geology
DEF Study or science of a planet, its history, Earth (planet) . . planetary environments ... planetary environments
... planetary magnetospheres
... planetary magnetotails
RT Earth magnetosphere
∞ magnetospheres impact damage and its life as recorded in the rocks. Includes the Mars (planet) study of the surface features, the geometry of rock formations, weathering and erosion, and Mars surface Mercury (planet) Mercury surface meteorite craters sedimentation. planetary magnetic fields solar planetary interactions GS geology planetary geology planetary geology planetary magnetotails
(added March 1990)
SN (EXCLUDES EARTH'S MAGNETOTAIL;
FOR EARTH USE 'GEOMAGNETIC TAIL')
DEF The portion of the magnetosphere extending from a planet in the direction away from . . Mars volcanoes Earth analogs planets Venus (planet) lunar geology Venus surface Mars Express Mars Pathfinder planetary crusts DEF The outermost layers of planets. The planetary crusts are on top of the mantle and are modified by various processes of weathering, MESSENGER (spacecraft) the sun for a variable distance of the order of planetary craters 1,000 planet radii. planetary crusts GS environments sedimentation, metamorphosis, volcanism, and planetary evolution . extraterrestrial environments planetary structure bombardment by meteorites. planetary surfaces . . planetary environments GS crusts planetology ... planetary magnetospheres planetary crusts planets ... planetary magnetotails . Earth crust remote sensing RT exosphere lunar crust solar system geomagnetic tail planetary geology magnetopause space exploration planetary mantles ∞ magnetotails planetary magnetic fields planetary gravitation planetary cryospheres solar planetary interactions (added June 1996) GS gravitation solar wind RT ∞ cryospheres planetary gravitation ice environments escape velocity planetary mantles Mars (planet) lunar gravitation planetary mantles permafrost Earth mantle planetary meteorology planetary ionospheres core-mantle boundary polar caps (EXCLUDES EARTH IONOSPHERE) crusts environments lithosphere . extraterrestrial environments planetary entry lunar mantle USE atmospheric entry . . planetary environments planetary crusts . . . planetary atmospheres planetary environments ... planetary ionospheres planetary mapping (EXCLUDES EARTH) RT ∞ atmospheres GS mapping environments ∞ ionospheres planetary mapping . extraterrestrial environments Jupiter atmosphere astrography . . planetary environments magnetosphere-ionosphere coupling ground penetrating radar . Mars environment Mars atmosphere Heat Capacity Mapping Mission Mars Reconnaissance Orbiter . . . . Mars atmosphere Neptune atmosphere ... planetary atmospheres Saturn atmosphere thermal mapping . helium hydrogen atmospheres Uranus atmosphere Jupiter atmosphere Venus atmosphere Mars atmosphere planetary mass Mercury atmosphere GS mass planetary landing Neptune atmosphere . planetary mass (EXCLUDES LANDING ON THE PLANET EARTH) planetary ionospheres RT protoplanets Pluto atmosphere landing Saturn atmosphere . spacecraft landing planetary meteorology meteorology
. planetary meteorology . . planetary landing Uranus atmosphere Venus atmosphere . Mars landing . . . . Venus clouds crash landing atmospheric circulation . . . planetary magnetospheres glide landings atmospheric physics hard landing horizontal spacecraft landing Jupiter atmosphere . . . planetary magnetotails aerospace environments Mars atmosphere bioastronautics interplanetary flight Mercury atmosphere ∞ cryospheres lunar landing planetary atmospheres planetary cryospheres

orbital mechanics

roving vehicles

soft landing

exobiology

life support systems long duration space flight planetology

planets

Venus atmosphere

planetary motion USE solar orbits

#### planetary nebulae

celestial bodies . nebulae

planetary nebulae

Orion nebula

planetary oceans (added June 2001)

extraterrestrial oceans

# planetary orbits

GS orbits

planetary orbits

Amor asteroid Apollo asteroids Charon circular orbits Earth orbits elliptical orbits equatorial orbits hypothetical planets

interplanetary trajectories orbital resonances (celestial mechanics)

parking orbits polar orbits retrograde orbits satellite orbits spacecraft orbits swingby technique transfer orbits twenty-four hour orbits Viking orbiter spacecraft

## planetary protection

(added August 2001)

Technological and legal measures taken to prevent biological cross-contamination between Earth and other planets as a result of solar system exploration missions. Also includes safeguards imposed on the handling, distribution, and analysis of material samples returned to Earth.

protection GS

planetary protection
planetary quarantine contamination RT decontamination environment protection exobiology extraterrestrial life Mars sample return missions space law

spacecraft sterilization

# planetary quakes RT earthquakes

geodynamics moonquakes seismic waves shock waves

## planetary quarantine

protection GS

planetary protection

planetary quarantine

spacecraft sterilization

# planetary radiation

(EXCLUDES TERRESTRIAL RADIATION) electromagnetic radiation

planetary radiation extraterrestrial radiation

planetary radiation

albedo

decimeter waves infrared radiation light (visible radiation)

∞ radiation radio waves Saturn atmosphere terrestrial radiation thermal radiation

VLF emission recorders

#### planetary rings

GS celestial bodies

planetary rings

Jupiter rings

Saturn rings Uranus rings

dusty plasmas

moonlets

planetary atmospheres planets

∞ rinas

#### planetary rotation

GS gyration . rotation

. planetary rotation

astrophysics planetology rotating bodies stellar rotation

planetary satellites

USE natural satellites

planetary space flight USE interplanetary flight

planetary spacecraft

USE interplanetary spacecraft

#### planetary structure

asthenosphere chemical composition Earth planetary structure Jupiter rings lunar mantle planetary geology planetology Uranus rings

#### planetary surfaces

planetary surfaces

Mars surface Mercury surface Venus surface

Earth surface extraterrestrial oceans Jupiter red spot Mars roving vehicles

Marsokhod Mars roving vehicles

planetary geology roving vehicles Saturn rings surface properties ∞ surfaces topography

## planetary systems

DEF Systems consisting of a star and the planets and other objects in orbit around it.

planetary systems

. solar system extrasolar planets

orbital resonances (celestial mechanics) planet detection

solar system evolution

∞ systems

### planetary temperature

temperature

planetary temperature

atmospheric temperature

Saturn rings

# planetary waves

Waves on uniform currents in twodimensional nondivergent fluid systems rotating with varying angular speeds about the local vertical (beta plane). These waves represent a special case of barotropic disturbance, conserving absolute vorticity. As applied to atmospheric flow, the planetary waves takes into account the variability of the Coriolis parameter while assuming the motion to be two-dimensional. Used for UF long waves (meteorology) and Rossby waves.

UF long waves (meteorology)

Rossby waves

GS barotropism

. planetary waves internal waves

. planetary waves

tropospheric waves planetary waves

atmospheric circulation

barotropic flow Coriolis effect fluid flow gravity waves Kelvin waves Rossby regimes

rotating fluids rotating liquids vortices

∞ waves

zonal flow (meteorology)

Planet-B spacecraft (added August 1998) USE Nozomi Mars Orbiter

planetesimals

USE protoplanets

## planetocentric coordinates

GS coordinates

. planetocentric coordinates

geocentric coordinates astronomical coordinates celestial reference systems spherical coordinates

#### planetology

RT Jupiter rings planetary geology planetary meteorology planetary rotation planetary structure Saturn rings terrestrial planets trans-Neptunian objects

DEF Celestial bodies of the solar system, revolving around the sun in nearly circular orbits, or similar bodies revolving around stars. The larger of such bodies are sometimes called principal planets to distinguish them from asteroids, planetoids, or minor planets, which are comparatively small. The larger planets are accompanied by satellites such as the moon. Inferior planets have orbits smaller than that of the Earth; superior planets have orbits larger than that of the Earth. The four planets nearest the sun are called inner planets; the others, outer planets. The four largest planets are called major planets. The four planets commonly used for celestial observations are called navigational planets. The word planet is of Greek origin, meaning, literally, wanderer, applied because the planets appear to move relative to the stars.

GS celestial bodies

#### . planets

. . extrasolar planets

. . gas giant planets

. . . Jupiter (planet) Neptune (planet)

Saturn (planet)

Uranus (planet)

. . terrestrial planets Earth (planet)

Mars (planet)

Mercury (planet)

. . . Venus (planet)

. hypothetical planets

celestial mechanics

Chiron ecliptic Jupiter red spot natural satellites planet ephemerides planetary cores planetary craters planetary environments planetary geology planetary meteorology planetary rings Pluto (planet)

|          | protoplanetary disks  | ۰                        | o design   |          | auxins   |
|----------|---|--------------------------|--|----------|--|
|          | protoplanets  |                          | forecasting  |          | germination                                      |
|          | Saturn rings  | ۰                        | ∘ missions   |          | gravitropism                                     |
|          | solar system  |                          | optimization   |          | leaves   |
|          | solar system evolution  |                          | pattern method (forecasting)   |          | photosynthesis                                   |
|          | sun   |                          | probe method (forecasting)   |          | phototropism                                     |
|          |   |                          | production engineering   |          | phytochrome                                      |
| planfor  | ms  |                          | profile method (forecasting)   |          | plant diseases                                   |
| GS       | planforms   |                          | progress   |          | plant growth regulators                          |
|          | . caret wings   |                          | sequencing   |          | plant roots                                      |
|          | . rectangular planforms   |                          | slicing  |          | plant stress                                     |
|          | rectangular panels  |                          | Starsite program   |          | plants (botany)                                  |
|          | rectangular plates  |                          | training analysis  |          | respiration                                      |
|          | rectangular wings   |                          | urban development  |          | seedlings (botany)                               |
|          | . sweptback tail surfaces   |                          |  |          | transpiration                                    |
|          | . trapezoidal tail surfaces   | planotr                  |  |          | vegetation growth                                |
|          | . wing planforms  | UF                       | amplitrons (trademark)   |          |  |
|          | channel wings   | GS                       | amplifiers   | plant r  |  |
|          | infinite span wings   |                          | . microwave amplifiers   | RT       | auxins   |
|          | swept forward wings   |                          | planotrons   |          | bulbs  |
|          | trapezoidal wings   |                          | electron tubes   |          | plant physiology                                 |
|          | sweptback wings   |                          | . vacuum tubes   |          | plants (botany)                                  |
|          | arrow wings   |                          | microwave tubes  | •        | ∞ roots  |
|          | delta wings   |                          | planotrons   |          | seedlings (botany)                               |
|          | trapezoidal wings   |                          | microwave equipment  |          | vegetation growth                                |
|          | variable sweep wings  |                          | . microwave amplifiers   | plant o  | trocc  |
|          | ∘ bodies  |                          | . planotrons   | plant s  |  |
| ~        | o cross sections  |                          | . microwave tubes  | DEF      |  |
|          | geometry  | рт                       | planotrons   |          | ude as to disrupt the growth and/or sur          |
| 0        | profiles  | RT                       | camera tubes   | vival of | •  |
|          | shapes  |                          | electric arcs  | GS       | ( 377  |
| 0        | surface geometry  |                          | magnetrons   | DT       | . plant stress                                   |
|          |   | nlane                    |  | RT       |  |
| planigra |   | ∞ <b>plans</b><br>SN     | (LICE OF A MODE CDECIFIC TERM IC                                     |          | agriculture                                      |
| USE      | tomography  | SIN                      | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS         |          | crop growth                                      |
|          |   |                          | LISTED BELOW)  |          | crop vigor                                       |
| planing  |   | RT                       | drawings   |          | Earth Resources Program                          |
| SN       | (EXCLUDES MOTION INVOLVING  |                          | flight plans   |          | plant diseases                                   |
| GS       | DYNAMIC SUPPORTING FORCES) cutting  |                          | layouts  |          | plant physiology                                 |
| 00       | . planing   |                          | mission planning   |          | remote sensing soil moisture                     |
| RT       | grinding (material removal)   |                          | payload integration plan   |          |  |
|          | machining   |                          | urban development  |          | spectral reflectance                             |
|          | metal cutting   |                          |  |          | vegetation growth                                |
|          | milling (machining)   | plant d                  |  | nlantai  | r tissues  |
|          | slicing   | SN<br>DEF                | (EXCLUDES BIOLOGICAL PLANTS) Encompasses all design consideration    | GS       | tissues (biology)                                |
|          | smoothing   |                          | cal plants, i.e., airports, industrial plants,                       | 00       | . plantar tissues                                |
|          | g   |                          | lities, etc. Structural is just one aspect of                        |          | . piantai tissues                                |
| planisp  | heres   |                          | ign. SN (excludes biological plants)                                 | plantin  | na   |
| GS       | maps  |                          | architecture   | RT       | agriculture                                      |
|          | . astronomical maps   |                          | odesign  |          | ∞ crops  |
|          | . planispheres  | · ·                      | structural design  |          | cultivation                                      |
| RT       | astronomical coordinates  |                          | Structural design  |          | farm crops                                       |
|          | celestial sphere  | plant di                 | seases   |          | farmlands  |
|          | constellations  | UF                       | diseased vegetation  |          | fertilizers                                      |
|          | polar coordinates   | GS                       | plant diseases   |          | plants (botany)                                  |
|          | •   |                          | . blight   |          | plowing  |
| plankto  | n   | RT                       | agriculture  |          | plows  |
| DEF      | The aggregate of passively floating or  |                          | crop growth  |          | seeds  |
| drifting | plant and animal organisms which pro-   |                          | crop identification  |          | silviculture                                     |
|          | major source of sustenance for animal   |                          | crop vigor   |          | soils  |
|          | e aquatic ecosystem. Used for plankton  |                          | diseases   |          | tractors   |
| bloom.   |   |                          | fungi  |          | vegetables                                       |
| UF       | plankton bloom  |                          | plant physiology   |          |  |
| GS       | plankton  |                          | plant stress   |          | (botany)   |
|          | . phytoplankton   |                          | plants (botany)  | UF       | flora  |
|          | . zooplankton   |                          | rust fungi   | GS       | plants (botany)                                  |
| RT       | algae   |                          |  |          | . alfalfa  |
|          | animals   | plant g                  | rowth regulators   |          | . algae  |
|          | plants (botany)   | (add                     | ed August 2004)  |          | blue green algae                                 |
|          | red tide  | DEF                      | A substance which affects the growth                                 |          | anabaena   |
|          | thermal pollution   | and oth                  | er functions of a plant. These include the                           |          | Microcystis                                      |
|          |   |                          | es auxins, gibberellins, and cytokinins,                             |          | Nostoc   |
| planktoi |   | which a                  | re produced naturally in plants, as well                             |          | Chlorella  |
| USE      | plankton  | as ethyl                 |  |          | Dunaliella                                       |
|          |   | GS                       | plant growth regulators  |          | porphyra   |
| plannin  |   |                          | . abscisic acid  |          | scenedesmus                                      |
| GS       | planning  |                          | . auxins   |          | . aquatic plants                                 |
|          | . airport planning  | RT                       | ethylene   |          | phytoplankton                                    |
|          | . management planning   |                          | indoleacetic acids   |          | . barley   |
|          | production planning   |                          | plant physiology   |          | . brush (botany)                                 |
|          | project planning  |                          | plants (botany)  |          | chaparral  |
|          | . mission planning  |                          |  |          | . Bryophytes                                     |
|          |   |                          |  |          | corn   |
|          | regional planning   |                          | hysiology  |          | . corn   |
|          | regional planning urban planning  | (add                     | ed August 2004)  |          | . cotton   |
|          | regional planning . urban planning . task planning (robotics)   | (add                     | ed August 2004) Physiological functions characteristic               |          | . cotton<br>. fungi                              |
|          | . regional planning urban planning . task planning (robotics) . trajectory planning                         | (add<br>DEF<br>of plants | ed August 2004) Physiological functions characteristic s.            |          | . cotton<br>. fungi<br>Aspergillus               |
| RT       | . regional planning<br>. urban planning<br>. task planning (robotics)<br>. trajectory planning<br>budgeting | (add                     | ed August 2004) Physiological functions characteristic s. physiology |          | . cotton<br>. fungi<br>Aspergillus<br>Coccomyces |
| RT       | . regional planning urban planning . task planning (robotics) . trajectory planning                         | (add<br>DEF<br>of plants | ed August 2004) Physiological functions characteristic s.            |          | . cotton<br>. fungi<br>Aspergillus               |

|    | rhizopus                      | plastids   | plasmas (physics)                              |
|----|-------------------------------|--|--|
|    | rust fungi                    | plowing  |  |
|    | saccharomyces                 | pollen   | plasma chromatography                          |
|    | yeast                         | rain forests   | USE ion mobility spectroscopy                  |
|    | . grasses                     | seeds  | ulasus alauda                                  |
|    | hay                           | spores   | plasma clouds                                  |
|    | reeds (plants)                | stems  | DEF Specifically, a mass of ionized gas        |
|    | sea grasses                   | utricle  | flowing out of the sun.                        |
|    | sorghum                       | vegetation   | GS particles                                   |
|    | . guayule                     | viability  | . charged particles                            |
|    | . leguminous plants           | vineyards  | plasma clouds                                  |
|    | soybeans                      | wood   | magnetic clouds RT chemical clouds             |
|    | . lichens                     |  |  |
|    | . millet                      | plants (industries)  | ∞ clouds                                       |
|    | . oats                        | USE industrial plants  | cosmic plasma                                  |
|    | . photophilic plants          |  | dusty plasmas                                  |
|    | . phreatophytes               | plasma acceleration  | Earth magnetosphere                            |
|    | . potatoes                    | UF magnetohydrodynamic acceleration  | geomagnetic hollow                             |
|    | . rice                        | GS rates (per time)  | hydrogen clouds<br>interplanetary medium       |
|    | . saprophytes                 | . acceleration (physics)   | ion sheaths                                    |
|    | . spinach                     | plasma acceleration  | plasmapause                                    |
|    | . sugar beets                 | RT ∞ acceleration  | plasmas (physics)                              |
|    | . sugar cane                  | magnetic nozzles   | piasitias (physics)                            |
|    | . sunflowers                  | particle acceleration  | plasma composition                             |
|    | . thermophilic plants         | plasmas (physics)  | GS composition (property)                      |
|    | blue green algae              | wave propagation   | . plasma composition                           |
|    | anabaena                      | wave-particle interactions   | RT atom concentration                          |
|    | Microcystis                   |  | dusty plasmas                                  |
|    | Nostoc                        | plasma accelerators  | gas composition                                |
|    | . tobacco                     | GS plasma accelerators   | ion motion                                     |
|    | . tradescantia                | alpha plasma devices   | ionospheric composition                        |
|    | . tragacanth                  | . coaxial plasma accelerators  | nonequilibrium plasmas                         |
|    | . trees (plants)              | . Cyclops plasma accelerator   | nonuniform plasmas                             |
|    | citrus trees                  | RT ∞ accelerators  | plasmas (physics)                              |
|    | conifers                      | electromagnetic acceleration   | Thomas-Fermi model                             |
|    | deciduous trees               | ion injection  | uranium plasmas                                |
|    | . genetically modified plants | magnetic annular arc   | aramam plasmas                                 |
|    | . seedlings (botany)          | magnetohydrodynamic generators   | plasma compression                             |
| RT | abscisic acid                 | magnetoplasmadynamic thrusters   | DEF Decrease in volume and consequent          |
|    | agriculture                   | plasmas (physics)  | increase in density of a plasma usually by the |
|    | angiosperms                   |  | application of an intense magnetic field.      |
|    | animals                       | plasma antennas  | GS compressing                                 |
|    | auxins                        | DEF An air plasma made by ionizing the   | plasma compression                             |
|    | biochemical oxygen demand     | atmosphere which acts as the conducting ele-   | RT controlled fusion                           |
|    | biogeochemistry               | ment of an RF antenna.   | dense plasmas                                  |
|    | biomass                       | GS antennas  | inertial fusion (reactor)                      |
|    | blight                        | . plasma antennas  | magnetic effects                               |
|    | botany                        | RT antenna design  | magnetic field configurations                  |
|    | canopies (vegetation)         | antenna radiation patterns   | pinch effect                                   |
|    | carbon cycle                  | plasma cylinders   | plasma focus                                   |
|    | chlorophylls                  | satellite communication  | plasma pressure                                |
|    | cortexes (botany)             | spacecraft communication   | plasmas (physics)                              |
|    | crop growth                   | nloome are cutting   | strongly coupled plasmas                       |
|    | crop vigor                    | plasma arc cutting   | theta pinch                                    |
|    | defoliants                    | DEF Use of plasma torches for cutting hard materials at extremely high temperatures. | tokamak devices                                |
|    | defoliation                   | , , ,  | zeta pinch                                     |
|    | Earth resources               | RT metal cutting<br>metal working  |  |
|    | environments                  | plasma arc welding   | plasma conductivity                            |
|    | farm crops                    | plasma torches   | GS electrical properties                       |
|    | foliage                       | plasmas (physics)  | . electrical resistivity                       |
|    | food chain                    | piasilias (pilysios)   | plasma conductivity                            |
|    | forests                       | plasma arc spraying  | transport properties                           |
|    | frost damage                  | USE arc spraying   | . electrical resistivity                       |
|    | geobotany                     | 001 a. 0 op. ayg   | plasma conductivity                            |
|    | geotropism                    | plasma arc welding   | RT collisional plasmas                         |
|    | gravitropism                  | GS welding   | ∞ conductivity                                 |
|    | greenhouses                   | . fusion welding   | ionospheric conductivity                       |
|    | halophiles                    | electric welding   | magnetohydrodynamic stability                  |
|    | herbicides                    | arc welding  | plasmas (physics)                              |
|    | heterotrophs                  | plasma arc welding   | strongly coupled plasmas                       |
|    | hydroponics infestation       | RT plasma arc cutting  | nlasma confinement                             |
|    | lacunas                       | plasma torches   | plasma confinement USE plasma control          |
|    | leaves                        | plasmas (physics)  | OOL plasma control                             |
|    | microorganisms                | p.s.e. (p) e.ee)   | plasma control                                 |
|    | microspores                   | plasma arcs  | UF plasma confinement                          |
|    | mitra                         | USE plasma jets  | RT ballooning modes                            |
|    | orchards                      | J  | beta factor                                    |
|    | organisms                     | plasma bubbles   | bumpy toruses                                  |
|    | petals                        | DEF Pockets of very low electron density in  | confinement                                    |
|    | phototropism                  | the equatorial F region of the ionosphere in   | ∞ control                                      |
|    | phytochrome                   | which the plasma density is lower than the   | crossed field guns                             |
|    | phytotrons                    | ambient density.   | crossed fields                                 |
|    | plankton                      | RT F region  | divertors (fusion reactors)                    |
|    | plant diseases                | plasma density   | electron-ion recombination                     |
|    | plant growth regulators       | F  | elliptical plasmas                             |
|    | plant physiology              | plasma chemistry   | helical inducers                               |
|    | plant roots                   | RT ∞ chemistry   | helical windings                               |
|    |                               |  |  |
|    | planting                      | nuclear chemistry  | heliotrons                                     |

limiters (fusion reactors) plasmas (physics) plasmas (physics) magnetic annular arc magnetic compression plasma electrodes plasma density magnetic field configurations GS density (number/volume) electrodes magnetic mirrors . particle density (concentration) . plasma electrodes magnetically trapped particles plasma density hot-wire flowmeters mirror fusion plasmaguides atmospheric density atom concentration pinch effect plasmatrons plasmas (physics) cavitons zeta pinch reverse field pinch collisional plasmas rigid rotors (plasma physics) electron density (concentration) plasma engines electron-hole drops ion density (concentration) DEF Reaction engines using magnetically screw pinch spheromaks accelerated plasma as a propellant. Plasma magnetoplasmadynamics engines are types of electrical engines. stellarators magnetoplasmadynamics magnetospheric electron density magnetospheric ion density magnetospheric proton density plasma bubbles UF electromagnetic rocket engines tandem mirrors engines thermal barriers (plasma control) tokamak devices . rocket engines toroidal plasmas . . electric rocket engines ... plasma engines transformers plasma drift TRAP program trapped magnetic fields . . . . magnetoplasmadynamic plasma pressure thrusters plasmas (physics) . . . . pulsed inductive thrusters zeta pinch proton density (concentration) . . . . pulsed plasma thrusters space density ... two stage plasma engines ... VASIMR (propulsion system) space plasmas plasma cooling DEF Temperature control of plasmas in controlled fusion operations. strongly coupled plasmas arc jet engines coaxial plasma accelerators plasma diagnostics cooling GS electrothermal engines RT Fabry-Perot interferometers plasma cooling Hall thrusters laser-induced breakdown controlled fusion high temperature propellants spectroscopy magnetohydrodynamic stability ion engines microwave interferometers plasmas (physics) magnetic nozzles **OPEN Project** temperature control mercury ion engines plasma power sources plasmas (physics) resonance probes plasma core reactors plasmas (physics) space plasmas DEF Nuclear reactors utilizing fissionable pulsed jet engines plasmas (such as uranium fluoride) for the fuel. resistojet engines plasma diffusion GS nuclear reactors RIT engines plasma dispersion . plasma core reactors GS diffusion critical mass plasma equilibrium DEF Condition of plasma in which the constituent particles or fluid elements are unaccelerated or collectively at rest in steady flow.

RT ballooning modes plasma diffusion nuclear power plants RT ambipolar diffusion nuclear research colloidal generators plasmas (physics) diffusion waves radioactive wastes electron diffusion reactor cores beta factor gaseous self-diffusion ∞ reactors confinement ion motion reflectors electron-hole drops ionic diffusion waste disposal ∞ equilibrium plasmas (physics) equilibrium flow magnetic mirrors plasma currents plasma diodes magnetohydrodynamic stability Electric currents induced in plasmas GS electronic equipment plasmas (physics) by injection of fast ion beams or some other . diodes strongly coupled plasmas means. . plasma diodes GS electric current cesium diodes plasma etching plasma currents plasmas (physics) DEF Removal of material by use of a fobeam currents controlled fusion cused plasma beam. plasma discharges etching eddy currents USE plasma jets plasma etching electric discharges electrical resistivity plasmas (physics) plasma dispersion sputtering field aligned currents USE plasma diffusion high current plasma flow ionospheric currents plasma display devices USE magnetohydrodynamic flow line current DEF Digital matrix flat panel devices in low currents which small gas discharge plasma cells are plasma flux measurement magnetohydrodynamics used as light emitting sources. plasma-particle interactions interferometry display devices GS magnetohydrodynamic flow plasmas (physics) . plasma display devices microwave plasma probes ring currents RT ∞ devices plasmas (physics) spheromaks gas ionization rotating plasmas toroidal plasmas glow discharges speckle interferometry light sources plasma cylinders plasmas (physics) plasma focus plasma cylinders A highly compressed plasma. cylindrical plasmas plasma drift foci RT ∞ cylinders Movement in the ionosphere of ion and . plasma focus cylindrical bodies plasma concentration by electric field variations particles. cylindrical shells in the upper atmosphere. . charged particles plasma antennas magnetohydrodynamic stability . . energetic particles plasmaguides plasma density . . . plasmas (physics) plasmas (physics) plasma waves . . . dense plasmas plasmas (physics) plasma focus . corpuscular radiation plasma decay plasma dynamics . . energetic particles GS decay plasma decay UF snowplow effect . . . plasmas (physics) . . . dense plasmas RT ∞ dvnamics RT afterglows electromagnetic wave transmission hydrodynamic equations Langmuir turbulence plasma focus

magnetohydrodynamics

helium afterglow

magnetohydrodynamic stability

RT nuclear fusion

plasma compression

strongly coupled plasmas zeta pinch

## plasma frequencies

GS frequencies

. plasma frequencies

electron density (concentration) electrostatic probes free electrons

plasmas (physics) plasmons

plasma generation

USE plasma generators

#### plasma generators

(EXCLUDES MAGNETOHYDRODYNAMIC OR THERMONUCLEAR GENERATORS OF ELECTRIC POWER)

Machines, such as electric arc chambers, that will generate very high heat fluxes to convert neutral gases into plasmas. Devices which use the interaction of plasmas and electrical field to generate currents. Used for plasma generation.

plasma generation

# plasma generators

- plasma guns
- . plasmatrons
- duoplasmatrons
- . Scylla
- . tokamak devices
- . Joint European Torus

arc chambers

arc generators closed cycles

colloidal generators

electric arcs

exploding wires

∘ generators

Hall generators

high temperature research

ion injection ion sources

magnetohydrodynamic generators

Penning discharge

plasmas (physics) pulse generators

thermal plasmas

thermonuclear power generation

wind tunnel drives

## plasma guns

plasma generators GS

plasma guns

coaxial plasma accelerators

crossed field guns electron guns

∞ guns

magnetic lenses

plasmas (physics) plasmatrons

#### plasma heating

heating

. plasma heating

. electron cyclotron heating

arc heating beam injection

beta factor bumpy toruses

electron cyclotron resonance

energy transfer gas heating

induction heating

ionospheric heating

kinetic heating Langmuir turbulence

magnetic pumping

magnetohydrodynamic shear heating plasma temperature

plasmas (physics)

radio frequency heating relativistic electron beams

shock heating

VASIMR (propulsion system)

plasma instability

magnetohydrodynamic stability

plasma interaction experiment
DEF A NASA Lewis experiment, the first of which was launched piggyback with Landsat 3 in 1978 to study the charged particle space plasma environment and its effect on spacecraft sur-faces operating at high voltages. The experi-ment lasted several hours as planned. The second was launched piggyback with Iras in 1983. Used for PIX. UF PIX

GS payloads

Space Shuttle payloads

. plasma interaction experiment spaceborne experiments

plasma interaction experiment

RT ∞ interactions Landsat 3

plasmas (physics)

space density SPHINX

plasma interactions

#### plasma interactions

- plasma-electromagnetic interaction
- . . laser plasma interactions
- plasma-particle interactions

RT ∞ interactions

plasmas (physics) solar planetary interactions

space plasmas wave interaction

wave-particle interactions

Weibel instability

## plasma jet synthesis

RT chemical reactions plasmas (physics)

∞ synthesis

# plasma jet wind tunnels

hydrodynamic tunnels test facilities

GS

. wind tunnels

. . hypersonic wind tunnels

... plasma jet wind tunnels

. . hypervelocity wind tunnels

... plasma jet wind tunnels plasmas (physics)

# RT plasma jets

plasma arcs

plasma discharges

particles

. charged particles

. plasma jets

. radio jets (astronomy)

 $RT \, \infty \, arcs$ 

crossed field guns drop transfer

electron beams

electron bombardment

fluid jets ion injection

iets

low density wind tunnels

magnetic lenses plasma torches plasmas (physics)

plasmatrons

pulse diffraction relativistic electron beams

relativistic plasmas toroidal discharge vapor jets

# plasma layers

GS particles

. charged particles

. plasma layers . . . plasma sheaths

atmospheric stratification

∞ layers

plasmas (physics)

space plasmas

∞ transition layers

# plasma lifetime

GS life (durability)

. plasma lifetime

magnetohydrodynamic stability plasmas (physics)

# plasma loss

RT limiters (fusion reactors)

losses

magnetohydrodynamic stability

plasmas (physics)

#### plasma oscillations

UF ion oscillation

plasma perturbation

oscillations

#### . plasma oscillations RT

electron oscillations ion acoustic waves Langmuir turbulence nonuniform plasmas

plasmapause

plasmas (physics) plasmons

# plasma perturbation

USE plasma oscillations

plasma physics The study of the nature and properties of highly ionized gases (comprised of ions and free electrons).

plasma theory

GS rigid rotors (plasma physics)

# . plasma physics

alpha plasma devices **BBGKY** hierarchy

beta factor

instantons

boundary layer plasmas

cavitons controlled fusion

electron runaway (plasma physics)

grand unified theory Hall accelerators

Larmor radius

Liouville equations
magnetic field configurations

magnetohydrodynamics

magnetohydrostatics

negative ions

neutral sheets

OPEN Project

∞ physics plasmapause

plasmas (physics)

radiation trapping

∞ science semiconductor plasmas

space plasmas

theoretical physics

thermodynamics

tokamak devices unified field theory uranium plasmas

# plasma pinch

GS pinch effect

. plasma pinch . . screw pinch

. . theta pinch . zeta pinch magnetohydrodynamic stability

plasmas (physics)

# plasma potentials

potential energy

Q devices

plasma potentials Debye-Huckel theory

magnetohydrodynamic stability nonequilibrium plasmas

plasmas (physics) ∞ potential

# plasma power sources

RT electric propulsion

∞ energy sources

plasma engines plasmas (physics) power supplies thermionic converters

#### plasma pressure

pressure GS

plasma pressure

plasma compression plasma density plasmas (physics)

#### plasma probes

measuring instruments

. plasma probes . electrostatic probes

ion sheaths plasmaguides

plasmas (physics) radio frequency impedance probes

#### plasma propulsion

GS propulsion

. electric propulsion

plasma propulsion

. low thrust propulsion

. plasma propulsion . spacecraft propulsion . plasma propulsion

duoplasmatrons

electromagnetic propulsion electrostatic propulsion

fusion propulsion gaseous fission reactors ion propulsion

magnetic annular arc magnetic nozzles

magnetic sails

magnetohydrodynamics

magnetoplasmadynamic thrusters

magnetoplasmadynamics nuclear electric propulsion

plasmas (physics)

plasmatrons

pulsed inductive thrusters

pulsed plasma thrusters

VASIMR (propulsion system)

# plasma pumping

DEF Application of radiation of appropriate frequencies to plasma, to increase the population of atoms or molecules in the higher energy states.

RT gas injection molecular pumps

plasmas (physics) ∞ pumping

# plasma radiation

electron radiation RT

fluorescence

glow discharges ion cyclotron radiation laser induced fluorescence

luminescence

nonequilibrium plasmas

optical resonance

phosphorescence

plasmas (physics)

polarized radiation

∞ radiation

relativistic plasmas

plasma renin activity USE immunoassay

# plasma resonance

GS resonance

. plasma resonance

resonance lines

cavitons

cyclotron resonance electromagnetic interactions electron cyclotron resonance plasmas (physics)

resonance probes

plasma rings

USE toroidal plasmas

#### plasma sheaths

The boundary layers of charged particles between plasmas and their surrounding walls, electrodes, or other plasmas. Envelopes of ionized gases that surround bodies moving through an atmosphere at hypersonic velocities.

particles

. charged particles

. . plasma layers

plasma sheaths

sheaths

#### plasma sheaths

blackout (propagation) boundary layer plasmas

ion sheaths

magnetohydrodynamic shear heating

magnetosheath

metallic plasmas

missiles

nonequilibrium plasmas plasmas (physics)

reentry communication

reentry effects reentry physics

system generated electromagnetic

pulses

uncontrolled reentry (spacecraft)

#### plasma slabs

GS particles

charged particles

. plasma slabs

magnetohydrodynamic stability plasmas (physics)

plasma sound waves

USE magnetohydrodynamic waves plasma waves

#### plasma spectra

spectra GS

. plasma spectra

emission spectra energy spectra optical resonance

plasmas (physics) radiation spectra

plasma spraying

GS

spraying
. plasma spraying

coating coatings

sprayed coatings

flame spraying HVOF thermal spraying metal matrix composites plasmas (physics)

plasma stability

USE magnetohydrodynamic stability

# plasma temperature

GS temperature

plasma temperature

ion temperature

magnetohydrodynamic stability plasma heating

plasmas (physics) thermal plasmas

plasma theory

USE plasma physics

# plasma torches

DEF Burners which attain 50,000 degrees C temperatures by the use of plasma gas injected into an electric arc. Plasma torches are used for welding, spraying molten metal, and cutting hard rock or hard metals.

GS torches

plasma torches

plasma arc cutting plasma arc welding plasma jets

plasmas (physics)

# plasma turbulence

GS turbulence

. magnetohydrodynamic turbulence

. . plasma turbulence

. . Langmuir turbulence magnetohydrodynamic flow magnetohydrodynamic simulation magnetohydrodynamic stability plasmas (physics)

#### plasma waves

plasma sound waves

elastic waves

. magnetohydrodynamic waves

.. plasma waves

. electrostatic waves

collisional plasmas diffusion waves electroacoustic waves

electron plasma ion acoustic waves

ion cyclotron radiation

ionic waves Landau damping

Langmuir turbulence magnetoacoustic waves magnetoelastic waves

nonuniform plasmas

plasma drift plasmas (physics) Polar/GGS spacecraft

shock waves space plasmas

wave packets wave-particle interactions

# plasmadynamic lasers

DEF Stimulated emission devices in which the lasing gas flow has been replaced with a lasing plasma flow of atoms or ions.

GS stimulated emission devices

. lasers

. . plasmadynamic lasers

coherent light gasdynamic lasers laser applications

# plasmas (physics)

plasma-electromagnetic interaction

# electromagnetic interactions . plasma-electromagnetic

interaction

laser plasma interactions plasma interactions

. plasma-electromagnetic

interaction

. laser plasma interactions electromagnetic coupling interactions

plasmas (physics)

space plasmas wave-particle interactions

# plasmaguides

GS waveguides

. plasmaguides

beam waveguides Earth-ionosphere waveguide electromagnetic wave transmission

microwave plasma probes plasma cylinders plasma electrodes

plasma probes plasmas (physics) wave propagation

# plasma-particle interactions

particle interactions

plasma-particle interactions plasma interactions

plasma-particle interactions

beam injection beam plasma amplifiers charge exchange dusty plasmas electron phonon interactions

electron plasma ∞ interactions

729

|         | particle theory  |     | collisional plasmas                                | plasma dynamics                               |
|---------|--|-----|--|---|
|         | plasma currents  |     | strongly coupled plasmas                           | plasma engines                                |
|         | plasmas (physics)  |     | collisionless plasmas                              | plasma equilibrium                            |
|         | relativistic electron beams                                  |     | cosmic plasma                                      | plasma etching                                |
|         | relativistic plasmas   |     | cylindrical plasmas                                | plasma flux measurement                       |
|         | SPHINX wave-particle interactions                            |     | dense plasmas                                      | plasma frequencies<br>plasma generators       |
|         | wave-particle interactions                                   |     | plasma focus                                       | plasma guns                                   |
| plasma  | nause  |     | strongly coupled plasmas                           | plasma heating                                |
| SN      | (LIMITED TO EARTH'S ATMOSPHERE)                              |     | electron plasma                                    | plasma interaction experiment                 |
| RT      | cosmic plasma  |     | electron-positron plasmas elliptical plasmas       | plasma interactions                           |
|         | Earth magnetosphere  |     | helium plasma                                      | plasma jet synthesis                          |
|         | ionopause  |     | high temperature plasmas                           | plasma jet wind tunnels                       |
|         | plasma clouds  |     | hydrogen plasma                                    | plasma jets                                   |
|         | plasma oscillations plasma physics                           |     | deuterium plasma                                   | plasma layers<br>plasma lifetime              |
|         | plasmas (physics)  |     | laser plasmas                                      | plasma loss                                   |
|         | solar wind   |     | metallic plasmas                                   | plasma oscillations                           |
|         | Colai Willa  |     | cesium plasma                                      | plasma physics                                |
| nlasma  | s (physics)  |     | uranium plasmas                                    | plasma pinch                                  |
| SN      |  |     | microplasmas                                       | plasma potentials                             |
| 0.1     | (LIMITED TO COMPLETELY IONIZED MATTER; FOR PARTIALLY IONIZED |     | nitrogen plasma                                    | plasma power sources                          |
| DEF     | GASES SEE IONIZED GASES) Electrically conductive gases com-  |     | nonequilibrium plasmas nonuniform plasmas          | plasma pressure                               |
|         | f neutral particles, ionized particles, and                  |     | oxygen plasma                                      | plasma probes                                 |
|         | ctrons but which, taken as a whole, are                      |     | rarefied plasmas                                   | plasma propulsion                             |
|         | illy neutral. Plasmas are further charac-                    |     | relativistic plasmas                               | plasma pumping<br>plasma radiation            |
| terized | by relatively large intermolecular dis-                      |     | rotating plasmas                                   | plasma resonance                              |
|         | large amounts of energy stored in the                        |     | semiconductor plasmas                              | plasma sheaths                                |
|         | energy levels of the particles, and the                      |     | space plasmas                                      | plasma slabs                                  |
|         | e of plasma sheaths at all boundaries of                     |     | solar wind   | plasma spectra                                |
|         | ma. Plasmas are sometimes referred to                        |     | stellar winds                                      | plasma spraying                               |
|         | rth state of matter. Used for electrostatic                  |     | dusty plasmas                                      | plasma temperature                            |
|         | ionized plasma, magnetoionic plasma,                         |     | spherical plasmas                                  | plasma torches                                |
| UF      | oplasmas, and plasmoids.                                     |     | thermal plasmas                                    | plasma turbulence                             |
| UF      | electrostatic plasma<br>ionized plasmas                      | RT  | toroidal plasmas alpha plasma devices              | plasma waves                                  |
|         | magnetoionic plasma  | IXI | beam plasma amplifiers                             | plasmadynamic lasers                          |
|         | magnetoplasmas   |     | blackout (propagation)                             | plasma-electromagnetic interaction            |
|         | plasmoids  |     | chemical elements                                  | plasmaguides                                  |
| GS      | particles  |     | combustion physics                                 | plasma-particle interactions                  |
|         | . charged particles  |     | core flow  | plasmapause<br>plasmasphere                   |
|         | energetic particles  |     | Cyclops plasma accelerator                         | plasmatrons                                   |
|         | plasmas (physics)  |     | Debye length                                       | radiation belts                               |
|         | argon plasma   |     | deuteron irradiation                               | rarefied gas dynamics                         |
|         | beta particles   |     | deuterons  | Scylla  |
|         | boundary layer plasmas                                       |     | duoplasmatrons                                     | solar physics                                 |
|         | cold plasmas   |     | electric arcs                                      | space charge                                  |
|         | collisional plasmas  |     | electron energy                                    | SPHINX  |
|         | strongly coupled plasmas collisionless plasmas               |     | gases high temperature fluids                      | stellar magnetic fields                       |
|         | cosmic plasma  |     | ionized gases                                      | tearing modes (plasmas)                       |
|         | cylindrical plasmas  |     | ions   | thermal dissociation                          |
|         | dense plasmas  |     | Kelvin-Helmholtz instability                       | thermodynamics                                |
|         | plasma focus   |     | Landau factor                                      | thermonuclear reactions                       |
|         | strongly coupled plasmas                                     |     | laser fusion                                       | two stage plasma engines                      |
|         | electron plasma  |     | laser plasma interactions                          | plasmas-in-space payload                      |
|         | electron-positron plasmas                                    |     | light ions   | USE AMPS (satellite payload)                  |
|         | elliptical plasmas   |     | Liouville equations                                | ` ',  |
|         | helium plasma  |     | low density research                               | plasmasphere                                  |
|         | high temperature plasmas                                     |     | magnetic compression                               | DEF Envelope of highly ionized gases sur-     |
|         | hydrogen plasma  |     | magnetohydrodynamic flow                           | rounding the Earth or another planet.         |
|         | deuterium plasma laser plasmas                               |     | magnetohydrodynamic stability magnetohydrodynamics | RT atmospheric ionization                     |
|         | metallic plasmas   |     | magnetoinics                                       | chemosphere<br>Earth atmosphere               |
|         | cesium plasma  |     | microwave plasma probes                            | Earth magnetosphere                           |
|         | uranium plasmas  |     | neutral gases                                      | IMAGE satellite                               |
|         | microplasmas   |     | Onsager phenomenological coefficient               | OPEN Project                                  |
|         | nitrogen plasma  | c   | physics  | plasmas (physics)                             |
|         | nonequilibrium plasmas                                       |     | plasma acceleration                                | upper atmosphere                              |
|         | nonuniform plasmas   |     | plasma accelerators                                |   |
|         | oxygen plasma  |     | plasma arc cutting                                 | plasmatrons                                   |
|         | rarefied plasmas   |     | plasma arc welding                                 | GS ion sources                                |
|         | relativistic plasmas   |     | plasma chemistry                                   | plasmatrons                                   |
|         | rotating plasmas   |     | plasma clouds                                      | . duoplasmatrons                              |
|         | semiconductor plasmas space plasmas                          |     | plasma composition plasma compression              | plasma generators                             |
|         | space plasmas<br>solar wind                                  |     | plasma compression<br>plasma conductivity          | . <b>plasmatrons</b><br>duoplasmatrons        |
|         | stellar winds  |     | plasma control                                     | RT plasma electrodes                          |
|         | dusty plasmas  |     | plasma cooling                                     | plasma guns                                   |
|         | spherical plasmas  |     | plasma core reactors                               | plasma jets                                   |
|         | thermal plasmas  |     | plasma currents                                    | plasma propulsion                             |
|         | toroidal plasmas   |     | plasma cylinders                                   | plasmas (physics)                             |
|         | . corpuscular radiation                                      |     | plasma decay                                       | 1   |
|         | energetic particles  |     | plasma density                                     | plasmids                                      |
|         | plasmas (physics)  |     | plasma diagnostics                                 | (added February 2002)                         |
|         | argon plasma   |     | plasma diffusion                                   | DEF Self-replicating circular molecules of    |
|         | beta particles   |     | plasma diodes                                      | DNA that are found in a variety of bacterial, |
|         | boundary layer plasmas                                       |     | plasma display devices                             | archaeal, fungal, algal and plant species.    |
|         | cold plasmas   |     | plasma drift                                       | RT cloning (biology)                          |

|         | deoxyribonucleic acid           |           | Lintogral  |            | thermoplasticity                           |
|---------|---------------------------------|-----------|--|------------|--|
|         | gene therapy                    |           | J integral<br>kink bands   |            | viscoplasticity                            |
|         | genetic engineering             |           | plane strain   |            | yield point                                |
|         | genetic engineering             |           | Saint Venant principle   | RT         | cohesion                                   |
| plasmo  | ide                             |           | and the second s | IXI        |  |
| USE     | plasmas (physics)               |           | shear creep  |            | cold flow tests                            |
| UUL     | piasilias (pilysics)            | c         | Slip     Atrain distribution   |            | ductility                                  |
| plasmo  | liveie                          |           | strain distribution  |            | elastic properties                         |
| RT      | cells (biology)                 |           | stress propagation   |            | fatigue (materials)                        |
| 111     | cytology                        |           | stress relaxation  |            | flexibility                                |
|         | dehydration                     |           | stress-strain relationships  |            | hardness                                   |
|         | deriyaration                    |           | stretching   |            | influence coefficient                      |
| plasmo  | ine                             |           | structural strain  |            | method of characteristics                  |
| SN      | (EXCLUDES ORGANIC CYTOPLASMIC   |           | superplastic forming   |            | plastic bodies                             |
| OIN     | CONDITIONS)                     |           | superplasticity  |            | plastic fibers                             |
| GS      | electromagnetic radiation       |           | temperature inversions   | ~          | properties                                 |
|         | . plasmons                      |           | tensile creep  |            | rheology                                   |
|         | elementary excitations          |           | tensile deformation  |            | semisolids                                 |
|         | . plasmons                      |           | thermomechanical treatment   |            | stress relaxation                          |
|         | polaritons                      |           | warpage  |            | stress tensors                             |
|         | · .                             |           | work softening   |            | structural stability                       |
| рт      | . plasmons                      |           | yield strength   |            | ,  |
| RT      | electron gas                    |           | ,g   | plastic    | shells                                     |
|         | excitons                        | plastic   | fihors   | GS         | shells (structural forms)                  |
|         | magnetohydrodynamic stability   |           | ed June 1995)  | 00         | . plastic shells                           |
|         | magnons                         | GS        | fibers   | RT         | cylindrical shells                         |
|         | phonons                         | 63        |  | 17.1       | elastic shells                             |
|         | plasma frequencies              | ОТ        | . plastic fibers   |            |  |
|         | plasma oscillations             | RT        | fiber optics   |            | elastoplasticity                           |
|         | polarons                        |           | glass fibers   |            | plastic bodies                             |
|         | surface plasmon resonance       |           | optical fibers   |            | reinforced shells                          |
|         | ·                               |           | plastic properties   |            | shell stability                            |
| plaster | s                               |           | plastics   |            |  |
| GS      | plasters                        |           | waveguides   | plastic    | tapes                                      |
|         | . gypsum                        |           |  | RT         | adhesives                                  |
|         | . paraplasts                    | plastic 1 | films  |            | magnetic tapes                             |
| RT      | casts                           | USE       | polymeric films  | ~          | tapes                                      |
|         | grout                           |           | 1.,  |            | ·  |
|         | •                               | plastic   | flow   | plastic y  | rielding                                   |
|         | molding materials               | GS        | fluid flow   |            | plastic deformation                        |
|         | mortars (material)              | 00        |  |            | <b></b>                                    |
|         | pastes                          |           | . plastic flow   | plasticity | /  |
| mlastis | sivereft structures             | рт        | Tresca flow  | USE        | plastic properties                         |
|         | aircraft structures             | RT        | creep properties   | OOL        | plastic properties                         |
| GS      | aircraft structures             | 0         | ∘ flow   | plastici   | zors                                       |
|         | plastic aircraft structures     |           | internal friction  | UF         | casting solvents                           |
| RT      | aircraft construction materials |           | rheology   | Oi         |  |
|         | aircraft survivability          |           | shear flow   | 00         | elasticizers                               |
|         | boron-epoxy composites          |           | steady state creep   | GS         | additives                                  |
|         | glass fiber reinforced plastics |           | stress relaxation  |            | plasticizers                               |
|         | plastics                        |           | superplasticity  | RT         | case bonded propellants                    |
|         |                                 |           | viscoelasticity  |            | coatings                                   |
| plastic | anisotropy                      |           | viscoplasticity  |            | Domino propellants                         |
| GS      | anisotropy                      |           | viocopiadiony  |            | esters                                     |
|         | . plastic anisotropy            | nlastic   | memory   |            | plastic propellants                        |
|         | elastic anisotropy              | RT        | shape memory alloys  |            | propellant additives                       |
| RT      | viscoplasticity                 | IXI       | stress relaxation  |            | Skydrol (trademark)                        |
| 111     | viscopiasticity                 |           | Stress relaxation  |            | solid propellants                          |
| nlastic | bodies                          |           |  |            | solid rocket binders                       |
| RT      |                                 | plastic   |  |            | surfactants                                |
|         | beams (supports)                | SN        | (STRUCTURAL PLATES EXHIBITING  |            | triacetin                                  |
|         |                                 | GS        | PLASTIC PROPERTIES)<br>structural members  |            | maceum                                     |
|         | cylindrical bodies              | 63        |  | mlastic a  |  |
|         | elastic bodies                  |           | . plates (structural members)  | plastics   |  |
|         | elastic plates                  | БТ        | plastic plates   | DEF        |  |
|         | elastoplasticity                | RT        | elastic plates   |            | nt one or more organic polymeric sub-      |
|         | plastic properties              |           | elastoplasticity   |            | of large molecular weight, are solid in    |
|         | plastic shells                  |           | reinforced plates  |            | shed state, and at some stage in their     |
|         | rigid structures                |           |  |            | cture or processing into finished articles |
|         |                                 |           | propellants  |            | shaped by flow.                            |
| plastic | coatings                        | GS        | propellants  | GS         | plastics                                   |
| GS      | coatings                        |           | . solid propellants  |            | . Delrin (trademark)                       |
|         | . plastic coatings              |           | plastic propellants  |            | . Perspex (trademark)                      |
| RT      | antiradar coatings              | RT        | chemical fuels   |            | . polybutadiene                            |
|         | encapsulating                   |           | composite propellants  |            | . polyethylenes                            |
|         | polymeric films                 |           | explosives   |            | polyethylene terephthalate                 |
|         | protective coatings             |           | gelled propellants   |            | . polyisobutylene                          |
|         | sprayed coatings                |           | HTPB propellants   |            | . polypropylene                            |
|         | oprayou ocalingo                |           | monopropellants  |            | . polystyrene                              |
| nlastic | deformation                     |           | plasticizers   |            | styrofoam (trademark)                      |
| UF      | Luder bands                     |           | polybutadiene tetranitramine   |            | . polytetrafluoroethylene                  |
| Oi      |                                 |           |  |            |  |
|         | plastic yielding                |           | pyrotechnics   |            | teflon (trademark)                         |
| 00      | strain softening                | pla-4!    | proportion   |            | . polyvinyl alcohol                        |
| GS      | deformation                     |           | properties   |            | . polyvinyl chloride                       |
|         | plastic deformation             | DEF       | The tendency of a loaded body to   |            | . polyvinyl fluoride                       |
| RT «    | ∞ bands                         |           | a deformed state other than its original   |            | . reinforced plastics                      |
|         | bending                         |           | hen the load is removed. Used for plas-  |            | carbon fiber reinforced plastics           |
|         | Bordoni peaks                   | ticity.   |  |            | carbon-phenolic composites                 |
|         | creep properties                | ÚF        | plasticity   |            | glass fiber reinforced plastics            |
|         | creep tests                     | GS        | mechanical properties  |            | micarta                                    |
|         | ductile-brittle transition      |           | . plastic properties   |            | . synthetic resins                         |
|         | elastic deformation             |           | elastoplasticity   |            | addition resins                            |
|         | elongation                      |           | photoplasticity  |            | acrylic resins                             |
|         | CIVITUATUUT                     |           | ρειστοριαστισίτη   |            |  |
|         | friction stir welding           |           | superplasticity  |            | vinyl copolymers                           |

|                | polyester resins                                    | of groat | extent and elevation; specifically, exten-                |               | rainforced plates                       |
|----------------|---|----------|---|---------------|---|
|                |   |          |   |               | reinforced plates                       |
|                | polyether resins                                    | sive lan | d regions considerably elevated (more                     |               | thick plates                            |
|                | PEEK  | than 15  | 0-300 meters in altitude) above the ad-                   |               | thin plates                             |
|                | polymethyl methacrylate                             | iacent o | country or above sea level. They are                      | RT            | clamped structures                      |
|                | thermoplastic resins                                |          | nly limited on at least one side by an                    |               | girders                                 |
|                |   |          |   |               |   |
|                | PEEK  |          | descent, have a flat or nearly smooth                     |               | metal sheets                            |
|                | quinoxalines  | surface  | but are often dissected by deep valleys                   |               | orthotropism                            |
|                | thermoplastic films                                 | and surr | nounted by high hills or high mountains,                  | ٥             | ∘ plates                                |
|                | . thermosetting resins                              |          | e a large part of their total surface at or               |               | Reissner theory                         |
|                |   |          |   |               | ,                                       |
|                | epoxy resins  |          | e summit level. Plateaus are usually                      |               | slabs                                   |
|                | phenolic epoxy resins                               | higher a | and have more noticeable relief than                      |               |   |
|                | furan resins  | plains ( | they often represent elevated plains),                    | plates (      | (tectonics)                             |
|                | polyamide resins                                    |          | usually higher and more extensive than                    | DEF           | Rigid divisions of the outer surface of |
|                | 1 7   |          |   |               |   |
|                | Kevlar (trademark)                                  |          | They may be tectonic, residual, or vol-                   |               | rth (lithosphere) which moves over a    |
|                | Nylon (trademark)                                   | canic in | origin.   |               | layer (asthenosphere). The plates are   |
|                | phenolic resins                                     | GS       | landforms   | about 1       | 00 km thick, and the continents, which  |
|                | micarta   |          | . terraces (landforms)                                    |               | km thick, rest on the plates and moves  |
|                |   |          |   |               |   |
|                | phenolic epoxy resins                               |          | plateaus  | with the      |   |
| RT             | acrylonitriles                                      |          | Allegheny Plateau (US)                                    | RT            | Earth crust                             |
|                | aramid fibers                                       |          | Colorado Plateau (US)                                     |               | Earth mantle                            |
|                | boron reinforced materials                          |          | Great Basin (US)  |               | Earth planetary structure               |
|                |   |          | ` '   |               |   |
| ٥              | construction materials                              |          | mesas   |               | earthquakes                             |
|                | elastomers  |          | buttes  |               | geological faults                       |
|                | fluoropolymers                                      |          | piedmonts   |               | geophysics                              |
|                | furans  |          | Central Piedmont (US)                                     |               | lithosphere                             |
|                |   | DT       |   |               | •                                       |
|                | injection molding                                   | RT       | apexes  |               | neotectonics                            |
|                | ion exchange resins                                 |          | erosion   |               | sea floor spreading                     |
|                | Kapton (trademark)                                  |          | highlands   |               | structural properties (geology)         |
|                | ∞ materials science                                 |          | 8   |               |   |
| 0              |   | •        | peaks   |               | subduction (geology)                    |
|                | molding materials                                   |          | plains  |               | tectonics                               |
|                | organic materials                                   |          | stratigraphy  |               |   |
|                | petroleum products                                  |          |   | ∞ platfori    | me                                      |
|                | · · · · · · · · · · · · · · · · · · ·               | mlatalat | _   |               |   |
|                | plastic aircraft structures                         | platelet |   | SN            | (USE OF A MORE SPECIFIC TERM IS         |
|                | plastic fibers                                      | RT       | blood cell count  |               | RECOMMENDEDCONSULT THE TERMS            |
| 0              | ∞ polymers  |          | blood coagulation   | DT            | LISTED BELOW)                           |
|                | sheet molding compounds                             |          | blood groups  | RT            | Automatic Universal Orbiting Stations   |
|                |   |          |   |               | data collection platforms               |
|                | tetrahydrofuran                                     |          | histology   |               | flight mechanics                        |
|                | thioplastics  |          | thromboplastin  |               | floors                                  |
|                |   |          | ·   |               |   |
| plastid        | 8   | mlatama  |   |               | flying platforms                        |
|                |   | platens  |   |               | guidance (motion)                       |
|                | ed August 2004)                                     | RT∝      | plates  |               | inertial platforms                      |
| DEF            | Self-replicating cytoplasmic organelles             |          | presses   |               | landforms                               |
| of plant       | and algal cells that contain pigments and           | 00       | pressing  |               |   |
|                | nthesize and accumulate various sub-                |          |   |               | launching pads                          |
|                |   |          | punches   |               | offshore platforms                      |
| stances        | . Plastids are used in phylogenetic stud-           |          | rams (presses)  |               | slabs                                   |
| ies.           |   |          | rollers   |               |   |
| GS             | organelles  |          |   |               | solettas                                |
| 00             |   |          | tools   |               | space platforms                         |
|                | . plastids  |          |   |               | space stations                          |
| RT             | algae   | ∞ plates |   |               |   |
|                | cells (biology)                                     |          | #105.05 A MODE ODEOUSIO TEDM 10                           |               | stabilized platforms                    |
|                |   | SN       | (USE OF A MORE SPECIFIC TERM IS                           |               | supports                                |
|                | cytology  |          | RECOMMENDEDCONSULT THE TERMS                              |               | synchronous platforms                   |
|                | cytoplasm   | DT       | LISTED BELOW)   |               | dynomonous planerine                    |
|                | pigments  | RT       | corrugating   |               |   |
|                |   |          | disks (shapes)  | plating       |   |
|                | plants (botany)                                     |          |   | . GS          | plating                                 |
|                |   |          | flat plates   | 00            |   |
| plastise       | ols   |          | metal coatings  |               | . electroplating                        |
|                | A suspension of a finely divided poly-              |          | metal plates  |               | . flame plating                         |
|                |   |          | microchannel plates                                       |               | . ion plating                           |
| mer in a       | a plasticizer.                                      |          | •   |               |   |
| GS             | mixtures  |          | panels  |               | . nickel plate                          |
|                | . dispersions                                       |          | parallel plates   | RT            | anodic stripping                        |
|                |   |          | photographic plates                                       |               | cathodic coatings                       |
|                | plastisols  |          | 1 0 1 1   |               | 9                                       |
|                | smoke   |          | platens   |               | cladding                                |
| RT             | colloids  |          | plates (structural members)                               |               | deposition                              |
|                | composite propellants                               |          | plating   |               | deposits                                |
|                |   |          | rectangular plates  |               | electrodeposition                       |
|                | double base propellants                             |          |   |               | electroless deposition                  |
|                | resins  |          | scatter plates (optics)                                   |               |   |
|                |   |          | thick plates  |               | finishes                                |
| PLAT s         | votom   |          | thin plates   |               | laminates                               |
|                |   |          |   |               | metal coatings                          |
| UF             | pilot landing aid television system                 |          | trays   |               | 3                                       |
| GS             | communication equipment                             |          |   |               | metal finishing                         |
|                | . PLAT system                                       | plates ( | structural members)                                       |               | metallizing                             |
|                |   | GS       | structural members  | ^             | ∘ plates                                |
|                | telecommunication                                   | GS       |   | 0             |   |
|                | . PLAT system                                       |          | . plates (structural members)                             |               | protective coatings                     |
|                | television systems                                  |          | . anisotropic plates                                      |               | substrates                              |
|                |   |          | annular plates  |               | thin films                              |
|                | PLAT system   |          |   |               | · · · · · · · · · · · · · · · · · · ·   |
| RT             | landing aids  |          | cantilever plates   |               |   |
|                | ∞ systems   |          | circular plates   | platinu       | m                                       |
|                | -,  |          | corrugated plates   | GS            | chemical elements                       |
| -1-1 /         | (-1)  |          |   |               | . platinum                              |
| plate (n       |   |          | elastic plates  |               | •                                       |
| USE            | metal plates  |          | end plates  |               | platinum isotopes                       |
|                | ·   |          | flat plates   |               | metals                                  |
| plate th       | neory   |          | girder webs   |               | . transition metals                     |
|                |   |          |   |               | platinum                                |
| ΚI             | flat plates   |          | metal plates  |               |   |
|                | Mindlin plates                                      |          | boiler plate  |               | platinum isotopes                       |
|                | ······································              |          | . Mindlin plates  | RT            | platinum black                          |
|                |   |          | Militaliti plates   |               |   |
| _              | structural analysis                                 |          |   |               |   |
| 0              | structural analysis<br>∞ theories                   |          | orthotropic plates  | ml=4!         | m allova                                |
| o              | structural analysis                                 |          | orthotropic plates perforated plates                      |               | m alloys                                |
| ۰              | structural analysis<br>∞ theories                   |          | orthotropic plates  | platinu<br>GS | m alloys<br>alloys                      |
|                | structural analysis<br>∞ theories<br>Trefftz method |          | orthotropic plates<br>perforated plates<br>plastic plates |               | alloys                                  |
| plateau<br>DEF | structural analysis<br>∞ theories<br>Trefftz method |          | orthotropic plates perforated plates                      |               |   |

|          | rhodium alloys   | ∞                    | water intakes  |               | plowing  |
|----------|--|----------------------|--|---------------|--|
| platinun | n black  | nlethysi             | nography   | PLSS          |  |
| GS       | particles  |                      | bioengineering   | USE           | portable life support systems                  |
|          | . metal particles  |                      | . biometrics   |               |  |
|          | metal powder<br>platinum black   |                      | plethysmography  | plug no       |  |
|          | . powder (particles)   |                      | electroplethysmography                                       | GS            | exhaust nozzles . plug nozzles                 |
|          | metal powder   |                      |  | RT            | aerospike engines                              |
|          | platinum black   | pleurae              |  | 171           | annular nozzles                                |
| RT       | catalysts  | GS                   | anatomy  |               | conical nozzles                                |
|          | platinum   |                      | . pleurae<br>membranes                                       |               | nozzle geometry                                |
|          |  |                      | . pleurae  | ∞             | nozzles  |
|          | n compounds<br>platinum compounds  | RT                   | lungs  |               | rocket nozzles                                 |
| 00       | . platinum oxides  |                      | respiratory system   |               | spike nozzles                                  |
| RT ∞     | chemical compounds   |                      |  | pluggin       | a  |
| ∞        | Group 8 compounds  | pleuroti             | n  | UF            | g<br>clogging                                  |
| ∞        | metal compounds  | GS                   | drugs  | RT            | agglomeration                                  |
|          | · instance   |                      | . antibiotics  |               | blocking                                       |
|          | n isotopes<br>chemical elements  | DT                   | pleurotin  |               | caulking                                       |
| 00       | . nuclides   | RT                   | staphylococcus   |               | closing  |
|          | . isotopes   | playiala             | an (tradamark)   |               | closures<br>constrictions                      |
|          | platinum isotopes  | USE                  | ss (trademark) polymethyl methacrylate                       |               | fouling  |
|          | . platinum   | OOL                  | polymethyl methaciylate                                      |               | plugs  |
|          | . platinum isotopes  | nlion                |  |               | sealing  |
|          | metals   | <i>plies</i><br>USE  | lavore   |               | seals (stoppers)                               |
|          | . transition metals  | USL                  | layers   |               |  |
|          | platinum isotopes  | -1-4-                |  | plugs         |  |
|          | piatinam isotopes  | ∞ <b>plots</b><br>SN | (LISE OF A MORE SPECIFIC TERM IS                             | SN            | (EXCLUDES SPARKPLUGS OR ELECTRICAL CONNECTORS) |
| platinun | n oxides   | SIN                  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | GS            | seals (stoppers)                               |
|          | chalcogenides  | DT                   | LISTED BELOW)  |               | . plugs  |
|          | . oxides   | RT                   | charts   | RT            | blocking                                       |
|          | metal oxides   |                      | display devices plotters                                     |               | closures                                       |
|          | platinum oxides  |                      | plotting   |               | labyrinth seals                                |
|          | platinum compounds   |                      | sites  |               | outlets  |
|          | . platinum oxides  |                      |  |               | plugging                                       |
| playas   |  | plotters             |  |               | stopping                                       |
|          | land   | UF                   | plotting instruments   | Plum Bi       | rook Reactor                                   |
|          | . plains   | GS                   | recording instruments  |               | nuclear reactors                               |
|          | playas   |                      | . plotters   |               | . liquid cooled reactors                       |
|          | landforms  |                      | x-y plotters   |               | water cooled reactors                          |
|          | . plains   | RT                   | computer graphics  |               | Plum Brook Reactor                             |
| RT       | playas<br>deserts  |                      | digital to analog converters                                 |               | . nuclear research and test reactors           |
|          | lakes  |                      | display devices navigation aids                              |               | Plum Brook Reactor                             |
|          | Tanco  |                      | peripheral equipment (computers)                             | nlumag        | •  |
| playbac  | ks   | ∞                    | plots  | plumage<br>RT | e<br>birds                                     |
|          | magnetic tapes   |                      | plotting   |               | 230  |
| 000      | recorders  |                      | position indicators  | plumbar       | ne   |
|          | recording  |                      | printers   | USE           | lead compounds                                 |
|          | records<br>tapes   |                      | remote consoles  |               | metal hydrides                                 |
|          | video disks  |                      |  |               |  |
|          | video dioko  | plotting             | 1 2 2 2 3 1  | plumes        |  |
| PLC effe | ect  | RT                   | analog to digital converters                                 | GS            | plumes   |
| (adde    | ed August 1997)  |                      | display devices navigation                                   | DT            | . rocket exhaust                               |
| USE      | Portevin-le Chatelier effect   | 000                  | plots  | RT            | chimneys<br>condensates                        |
|          |  | -                    | plotters   |               | pollution transport                            |
|          | s cluster  |                      | printing   |               | shock waves                                    |
| GS       | celestial bodies . star clusters   |                      | recording  |               |  |
|          | open clusters  |                      |  | plunger       | s  |
|          | Pleiades cluster   | plotting             | instruments  | RŤ            | mixers   |
| RT ∞     | clusters   | USE                  | plotters   |               | pistons  |
|          | Taurus constellation   |                      |  |               | rams (presses)                                 |
|          |  | plowed i             | fields   |               | rams (pumps)                                   |
|          | ene epoch  |                      | farmlands  | DI ( . ( .    | 1  |
|          | ed May 2001)   |                      |  | Pluto (p      | celestial bodies                               |
|          | Geologic epoch of the Quaternary pe-   | plowing              |  | GS            | . dwarf planets                                |
|          | ending from about two million years ago 10,000 years ago and covering the last |                      | cultivation  |               | Pluto (planet)                                 |
| ice age. | . 0,000 yours ago and sovering the last  |                      | . plowing  |               | . trans-Neptunian objects                      |
|          | Cenozoic Era   | RT                   | agriculture  |               | Pluto (planet)                                 |
| -        | . Quaternary period  |                      | farm crops   | RT            | Charon   |
|          | Pleistocene epoch  |                      | farmlands  |               | Hydra  |
| RT       | geochronology  |                      | grasslands<br>planting                                       |               | New Horizons mission                           |
|          | Holocene epoch   |                      | planting plants (botany)                                     |               | Nix  |
| -1       | ah ambana  |                      | plows  |               | planets  |
|          | chambers   |                      | sod  |               | Pluto atmosphere                               |
|          | air intakes chambers   |                      | tractors   | Diuto of      | mosphere                                       |
| ∞        | ducts  |                      |  |               | environments                                   |
|          | exhaust systems  | plows                |  | 00            | . extraterrestrial environments                |
|          | fuel systems   | RT                   | agriculture  |               | planetary environments                         |
|          | intake systems   |                      | mixers   |               | planetary atmospheres                          |
|          | manifolds  |                      | planting   |               | Pluto atmosphere                               |
|          |  |                      |  |               |  |

| RT        | Pluto (planet)                                   | transuranium elements               | . plutonium compounds                           |
|-----------|--|-------------------------------------|---|
| Distant   |  | plutonium                           | plutonium fluorides                             |
| Pluto re  |  | plutonium isotopes                  | halogen compounds                               |
| GS        | nuclear reactors                                 | plutonium 239                       | . fluorine compounds                            |
| рт        | . Pluto reactors                                 | mlestambers 040                     | fluorides                                       |
| RT        | nuclear ramjet engines<br>nuclear rocket engines | plutonium 240                       | metal fluorides                                 |
|           | 3  | GS chemical elements                | plutonium fluorides                             |
|           | supersonic low altitude missile                  | . actinide series                   | . halides                                       |
| Pluto s   | atellites  | transuranium elements               | fluorides                                       |
|           | ed July 1995)                                    | plutonium                           | metal fluorides                                 |
| •         | celestial bodies                                 | plutonium isotopes<br>plutonium 240 | plutonium fluorides                             |
| 00        | . natural satellites                             | •                                   | metal halides                                   |
|           | . Pluto satellites                               | . nuclides                          | metal fluorides                                 |
|           | Charon   | isotopes                            | plutonium fluorides                             |
|           | Hydra  | radioactive isotopes                | plutonium isotopes                              |
|           | Nix  | transuranium elements               | GS chemical elements                            |
|           |  | plutonium<br>plutonium isotopes     | . actinide series                               |
| plutoni   | um   | plutonium 240                       | transuranium elements                           |
| GS        | chemical elements                                | metals                              | plutonium                                       |
|           | . actinide series                                | . actinide series                   | plutonium isotopes                              |
|           | transuranium elements                            | transuranium elements               | plutonium 238                                   |
|           | plutonium  | plutonium                           | plutonium 239                                   |
|           | plutonium isotopes                               | plutonium isotopes                  | plutonium 240                                   |
|           | plutonium 238                                    | plutonium 240                       | plutonium 241                                   |
|           | plutonium 239                                    | platolialii 240                     | plutonium 244                                   |
|           | plutonium 240                                    | plutonium 241                       | . nuclides                                      |
|           | plutonium 241                                    | GS chemical elements                | isotopes  |
|           | plutonium 244                                    | . actinide series                   | radioactive isotopes                            |
|           | . nuclides                                       | transuranium elements               | transuranium elements                           |
|           | isotopes   | plutonium                           | plutonium                                       |
|           | radioactive isotopes                             | plutonium isotopes                  | plutonium isotopes                              |
|           | transuranium elements                            | plutonium 241                       | plutonium 238                                   |
|           | plutonium  | . nuclides                          | plutonium 239                                   |
|           | plutonium isotopes                               | isotopes                            | plutonium 240                                   |
|           | plutonium 238                                    | radioactive isotopes                | plutonium 241                                   |
|           | plutonium 239                                    | transuranium elements               | plutonium 244                                   |
|           | plutonium 240                                    | plutonium                           | metals  |
|           | plutonium 241                                    | plutonium isotopes                  | . actinide series                               |
|           | plutonium 244                                    | plutonium 241                       | transuranium elements                           |
|           | metals   | metals                              | plutonium                                       |
|           | . actinide series                                | . actinide series                   | plutonium isotopes                              |
|           | transuranium elements                            | transuranium elements               | plutonium 238                                   |
|           | plutonium  | plutonium                           | plutonium 239                                   |
|           | plutonium isotopes                               | plutonium isotopes                  | plutonium 240                                   |
|           | plutonium 238                                    | plutonium 241                       | plutonium 241                                   |
|           | plutonium 239                                    | •                                   | plutonium 244                                   |
|           | plutonium 240                                    | plutonium 244                       | ·   |
|           | plutonium 241                                    | GS chemical elements                | plutonium oxides                                |
|           | plutonium 244                                    | . actinide series                   | GS actinide series compounds                    |
| RT        | fissionable materials                            | transuranium elements               | . plutonium compounds                           |
|           | nuclear fuels                                    | plutonium                           | plutonium oxides                                |
|           |  | plutonium isotopes                  | chalcogenides                                   |
| plutoni   |  | plutonium 244                       | . oxides  |
| GS        | chemical elements                                | . nuclides                          | metal oxides                                    |
|           | . actinide series                                | isotopes                            | plutonium oxides                                |
|           | transuranium elements                            | radioactive isotopes                | RT ceramic nuclear fuels                        |
|           | plutonium  | transuranium elements               | mixed oxides                                    |
|           | plutonium isotopes                               | plutonium                           |   |
|           | plutonium 238                                    | plutonium isotopes                  | plutonium recycle test reactor                  |
|           | . nuclides                                       | plutonium 244                       | UF PRTR (reactor)                               |
|           | isotopes   | metals                              | GS nuclear electric power generation            |
|           | radioactive isotopes                             | . actinide series                   | . nuclear power reactors                        |
|           | transuranium elements                            | transuranium elements               | . plutonium recycle test reactor                |
|           | plutonium  | plutonium                           | nuclear reactors                                |
|           | plutonium isotopes                               | plutonium isotopes                  | . liquid cooled reactors                        |
|           | plutonium 238                                    | plutonium 244                       | water cooled reactors                           |
|           | metals   |                                     | heavy water reactors                            |
|           | actinide series                                  | plutonium alloys                    | plutonium recycle test reactor                  |
|           | transuranium elements                            | GS alloys                           | . nuclear power reactors                        |
|           | plutonium  | . plutonium alloys                  | plutonium recycle test reactor                  |
|           | plutonium isotopes                               | RT nuclear fuel elements            | nuclear research and test reactors              |
|           | plutonium 238                                    | nuclear fuels                       | plutonium recycle test reactor                  |
| mlustami: | 220  | and the series are substance.       | . water moderated reactors                      |
| plutoni   |  | plutonium carbides                  | plutonium recycle test reactor                  |
| GS        | chemical elements                                | USE plutonium compounds             |   |
|           | . actinide series                                | nlutanium aannaunda                 | pluviographs                                    |
|           | transuranium elements                            | plutonium compounds                 | USE rain gages                                  |
|           | plutonium  | UF plutonium carbides               | recording instruments                           |
|           | plutonium isotopes                               | GS actinide series compounds        | nly orientation                                 |
|           | plutonium 239                                    | . plutonium compounds               | ply orientation                                 |
|           | . nuclides                                       | plutonium fluorides                 | DEF The arrangement of bonded layer             |
|           | isotopes   | plutonium oxides                    | comprising laminated materials to obtain optima |
|           | radioactive isotopes                             | RT ceramic nuclear fuels            | strength or other characteristics.              |
|           | transuranium elements                            | ∞ chemical compounds                | RT alignment                                    |
|           | plutonium  | ∞ metal compounds                   | composite materials                             |
|           | plutonium isotopes                               | nuclear fuels                       | interlayers                                     |
|           | plutonium 239                                    | mintaninum fire-side-               | laminates                                       |
|           | metals   | plutonium fluorides                 | ∞ layers  |
|           | . actinide series                                | GS actinide series compounds        | multilayer insulation                           |

|         | orientation                         | proceure measurement                          | OGO-6                                      |
|---------|-------------------------------------|---|--|
|         | plywood                             | pressure measurement                          | OGO-0                                      |
|         | * *                                 | pneumatic reset                               | RT Agena B rocket vehicle                  |
|         | positioning                         | USE pneumatic control                         | EGO  |
|         | sandwich structures                 | OOL priedifiatic control                      | EGO  |
|         | stacking sequence (composite        | pneumatics                                    | POGO effects                               |
|         | materials)                          | DEF The branch of physics dealing with        |  |
|         | substrates                          | mechanical properties of gases with partic    |  |
|         |                                     | emphasis on gas statics in closed systems.    | vibration effects                          |
| plywoo  | d                                   | GS fluid mechanics                            | . POGO effects                             |
| GS      | composite materials                 | . pneumatics                                  |  |
|         | plywood                             | RT flow theory                                | RT ∞ effects                               |
|         | composite structures                | ,   | longitudinal stability                     |
|         | . laminates                         | fluid power                                   | Dahlhausan mathad                          |
|         | plywood                             | fluidics                                      | Pohlhausen method                          |
|         | wood                                | gases   | UF Pohlhausen solution                     |
|         | . plywood                           | ∞ hydraulics                                  | GS analysis (mathematics)                  |
| RT      | ply orientation                     |   | . numerical analysis                       |
| IXI     |                                     | pneumographs                                  | approximation                              |
|         | trees (plants)                      | USE <b>pneumography</b>                       | Pohlhausen method                          |
|         | wooden structures                   |   | RT laminar boundary layer                  |
|         |                                     | pneumography                                  | ∞ methodology                              |
| PML (el | lectromagnetism)                    | UF pneumographs                               | velocity distribution                      |
|         | ed July 1998)                       | RT biotelemetry                               | viscous flow                               |
|         | perfectly matched layers            | lungs   |  |
| 002     | periodily materiou layore           | ∞ measurement                                 | Pohlhausen solution                        |
|         |                                     | radiography                                   | USE Pohlhausen method                      |
| p-n jun | ctions                              | 3 1   | COL I CIMICACON MICHIGA                    |
| UF      | n-p junctions                       | pneumonia                                     | poikilothermia                             |
| GS      | semiconductor junctions             | GS diseases                                   | UF cold blooded animals                    |
|         | . p-n junctions                     | . respiratory diseases                        | GS animals                                 |
| RT 。    | ∘ junctions                         | pneumonia                                     |  |
|         | SIS (semiconductors)                | RT acquired immunodeficiency syndro           | . poikilothermia                           |
|         | \/                                  | ,   | TT GINPING                                 |
|         |                                     | bacterial diseases                            | body temperature                           |
| •       | atic circuits                       | congestion                                    | fishes                                     |
| GS      | circuits                            | viral diseases                                | invertebrates                              |
|         | . pneumatic circuits                |   | reptiles                                   |
|         | pneumatic equipment                 | pneumothorax                                  |  |
|         | . pneumatic circuits                | RT diseases                                   | Poincare problem                           |
| RT      | fluidics                            | lungs   | RT ∞ problems                              |
|         | valves                              | medical science                               |  |
|         |                                     |   | Poincare spheres                           |
|         |                                     | pnictides                                     | GS symmetrical bodies                      |
|         | atic control                        | USE Group 5A compounds                        | . bodies of revolution                     |
| UF      | pneumatic reset                     |   | spheres                                    |
| RT      | automatic control                   | p-n-p junctions                               | Poincare spheres                           |
|         | automatic control valves            | GS semiconductor junctions                    | RT geometry                                |
|         | compressed gas                      | . p-n-p junctions                             | it geometry                                |
| ۰       | o control                           | RT ∞ junctions                                | point defects                              |
|         | control equipment                   | itti janonono                                 | GS defects                                 |
|         | control valves                      | p-n-p-n junctions                             |  |
|         | controllers                         | GS semiconductor junctions                    | . crystal defects                          |
|         | electronic control                  | . p-n-p-n junctions                           | . point defects                            |
|         |                                     |   | vacancies (crystal defects)                |
|         | engine control                      | RT ∞ junctions                                | Frenkel defects                            |
|         | fluid power                         | latch-up                                      | antisite defects                           |
|         | fluidics                            | thyristors                                    | RT crystal dislocations                    |
|         | hydraulic control                   | D 1 1 " 1                                     | impurities                                 |
|         | remote control                      | Pockels effect                                | surface defects                            |
|         |                                     | USE birefringence                             |  |
| nneum   | atic equipment                      |   | point impact                               |
| GS      | pneumatic equipment                 | pocket mice                                   | GS impact                                  |
| GS      |                                     | GS animals                                    | . point impact                             |
|         | . gas valves                        | . vertebrates                                 | RT electron impact                         |
|         | pneumatic circuits                  | mammals                                       | hypervelocity impact                       |
|         | pneumatic probes                    | rodents                                       | ion impact                                 |
| RT      | air bag restraint devices           | mice  |  |
|         | compressed air                      | pocket mice                                   | proton impact                              |
|         | cushions                            | RT rats                                       |  |
| ۰       | ∘ equipment                         | IXI Idis                                      | point matching method (mathematics)        |
|         | fluid amplifiers                    | nada (aytarnal ataraa)                        | USE boundary value problems                |
|         | fluid power                         | pods (external stores)                        |  |
|         | fluid switching elements            | GS external stores                            | point sources                              |
|         | fluidics                            | . pods (external stores)                      | GS radiation sources                       |
|         | gas generators                      | RT cowlings                                   | . point sources                            |
|         |                                     | external store separation                     | RT diffuse radiation                       |
|         | Golay detector cells                | fuel tanks                                    | ∞ energy sources                           |
|         | inflatable structures               | nacelles                                      | Huygens principle                          |
|         | servocontrol                        | wing-fuselage stores                          | light sources                              |
|         | servomechanisms                     | - <b>-</b>                                    | spherical waves                            |
|         | shock absorbers                     | POGO  | *F   |
| 0       | o systems                           | UF Polar Orbit Geophysical Observato          | pry point spread functions                 |
|         | valves                              | GS artificial satellites                      | DEF Mathematical functions involved in im- |
|         |                                     | . geophysical satellites                      | age processing.                            |
| nnoum   | atic probes                         | . OGO   |  |
|         |                                     |   | GS functions (mathematics)                 |
| GS      | measuring instruments               | <b>POGO</b>                                   | point spread functions                     |
|         | . temperature measuring instruments | OGO-4   | RT image processing                        |
|         | pneumatic probes                    | OGO-6   |  |
|         | pneumatic equipment                 | OGO-C   | point to point communication               |
|         | pneumatic probes                    | observatories                                 | GS communicating                           |
| RT      | flow measurement                    | <ul> <li>geophysical observatories</li> </ul> | . point to point communication             |
|         | high temperature gases              | oĠo   | . NASCOM network                           |
|         | mass flow rate                      | POGO  | RT radio communication                     |
|         | nozzle flow                         | OGO-4   | telecommunication                          |
|         |                                     |   |  |

# pointing control systems

Westar satellites GS functions (mathematics) geomagnetic latitude wideband communication Poisson density functions geomagnetic tail statistical analysis geomagnetism pointers Poisson density functions geophysics USE dials continuity (mathematics) interplanetary space discrete functions lines of force pointing control systems exponential functions magnetic field configurations pointing control systems sorting algorithms magnetic fields . annular suspension and pointing magnetopause system Poisson equation planetary magnetic fields RT ∞ control GS analysis (mathematics) polar regions entry guidance (STS) . real variables Polar/GGS spacecraft flight control guidance (motion) . . differential equations space plasmas . . . partial differential equations space flight ... Poisson equation polar gases spacecraft control classical mechanics GS gases  $\infty$  systems electrostatics . molecular gases ∞ equations . polar gases ∞ points carbon dioxide lasers isentrope (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN Laplace equation gas composition gas discharges vortex in cell technique gas dynamics RT nonpoint sources poisson process points (mathematics) gas lasers USE Poisson density functions gas masers position (location) stochastic processes polarization (charge separation) points (mathematics) geometry Poisson ratio polar ionosphere beacon GS . Euclidean geometry GS mechanical properties USE Beacon satellites Poisson ratio . . points (mathematics) ... fixed points (mathematics) ratios polar meteorology Poisson ratio GS meteorology . . inflection points Airy function . polar meteorology RT foci compressive strength aerology loci naked singularities elastic properties climatology fiber strength hvdrology ∞ points modulus of elasticity ice reporting reciprocal theorems singularity (mathematics) nu factor polar navigation stress-strain diagrams Poiseuille flow GS navigation tensile strenath USE laminar flow . polar navigation Polaire satellite air navigation poisoning USE D-2 satellites celestial navigation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS dead reckoning **Poland** digital navigation LISTED BELOW) nations inertial navigation GS benzene poisoning Poland loran beryllium poisoning Central Europe carbon monoxide poisoning Polar Orbit Geophysical Observatory Europe carbon tetrachloride poisoning USE POGO curare polar auroras hydrocarbon poisoning polar orbits USE auroras intoxication GS orbits lead poisoning polar cap absorption . polar orbits narcosis energy absorption . radiation absorption circular orbits poisoning (reaction inhibition) Earth orbits toxic diseases . . electromagnetic absorption elliptical orbits toxic hazards ... polar cap absorption equatorial orbits thermal absorption low Earth orbits poisoning (reaction inhibition) polar cap absorption lunar orbits control rods lunar satellites RT ∞ absorption neutron absorbers planetary orbits nuclear reactions space station polar platforms polar caps ∞ poisoning Antarctic regions TIROS satellites radioactive wastes twenty-four hour orbits Arctic regions poisoning (toxicology) ∞ caps USE toxic diseases Earth (planet) Polar Plasma Laboratory Earth cryosphere (added January 2001) USE Polar/GGS spacecraft poisons GS poisons Mars (planet) polar platforms (space stations) . curare planetary cryospheres space station polar platforms . endotoxins polar coordinates . pesticides DEF In a plane, a system of curvilinear polar radio blackout . . insecticides coordinates in which a point is located by its GS electromagnetic interference . . . Carbamates (tradename) distance r from the origin (or pole) and by the . radio frequency interference . urethanes . . . DDT angle theta which a line (radius vector) joining . . blackout (propagation) . . . dieldrin the given point and the origin makes a fixed polar radio blackout reference line, called the polar axis. In three auroral zones ... phenothiazines . phosgene dimensions, short for space polar coordinates. ionospheric propagation . strychnine coordinates GS polar coordinates environment effects polar regions environment pollution high latitudes astronomical coordinates environmental surveys planispheres regions . polar regions hazardous materials Smith chart . . Antarctic regions spherical coordinates nonpoint sources pollution . . . McMurdo sound polar cusps . . . Ross ice shelf toxicity . . Arctic regions RT aeronomy Poisson density functions . . subarctic regions ∞ cusps Earth magnetosphere RT auroral zones

poisson process

climatology geography permafrost polar cusps polynyas temperate regions timberline

#### polar substorms

magnetic disturbances

. magnetic storms

. polar substorms

storms

. magnetic storms

. . polar substorms

#### polar wandering (geology)

DEF Migration during geologic time of the Earth's poles of rotation and magnetic poles. Also known as polar migration. Used for Chandler motion.

Chandler motion RT Chandler wobble Earth axis ∞ Earth motion Earth orientation geodesy nutation periodic variations precession

#### Polar/GGS spacecraft

(added January 2001)

One of two NASA spacecraft in the Global Geospace Science (GGS) initiative and part of the International Solar Terrestrial Physics (ISTP) program. Polar (Polar Plasma Laboratory) measures solar wind entry, ionospheric output, and the depositions of energy into the neutral atmosphere at high latitudes. Imaging instruments make possible the measurement of visible, ultraviolet, and X-ray spectra of the polar caps. The spacecraft was launched in February 1996.

UF Polar Plasma Laboratory artificial satellites GS

. geophysical satellites

Polar/GGS spacecraft

. scientific satellites

. Polar/GGS spacecraft

auroras

Earth ionosphere

Earth magnetosphere

geomagnetism

plasma waves polar cusps

solar terrestrial interactions

solar wind space plasmas space weather Wind/GGS spacecraft

## polarimeters

Instruments for determining the degree of polarization of electromagnetic radiation, specifically the polarization of light. Used for spectropolarimeters.

spectropolarimeters

GS measuring instruments

. optical measuring instruments

polarimeters

optical equipment

. optical measuring instruments

.. polarimeters

astronomical polarimetry

chemical analysis ellipsometers optical measurement

photometers polarimetry polariscopes polarizers

polarography Solar Maximum Mission

#### polarimetry

optical measurement GS

polarimetry

. astronomical polarimetry

RT optical activity

optical measuring instruments photometry

polarimeters polarization (waves)

#### Polaris A1 missile

GS missiles

. ballistic missiles

. . intermediate range ballistic missiles

. . . polaris missiles

.... Polaris A1 missile

. surface to surface missiles

. . fleet ballistic missiles

... Polaris A1 missile . . intermediate range ballistic missiles

. . . polaris missiles

. . . . Polaris A1 missile

# Polaris A2 missile

GS missiles

. ballistic missiles

. . intermediate range ballistic missiles

. . . polaris missiles

. Polaris A2 missile

. surface to surface missiles

. . fleet ballistic missiles

... Polaris A2 missile

. . intermediate range ballistic missiles

. . . polaris missiles

.... Polaris A2 missile

#### Polaris A3 missile

GS missiles

. ballistic missiles

. . intermediate range ballistic missiles

. . . polaris missiles

.... Polaris A3 missile

. surface to surface missiles

. . fleet ballistic missiles

. Polaris A3 missile . . intermediate range ballistic missiles

. . . polaris missiles

.... Polaris A3 missile

#### polaris missiles

missiles

. ballistic missiles

. . intermediate range ballistic missiles . . . polaris missiles

Polaris A1 missile

Polaris A2 missile

Polaris A3 missile

. surface to surface missiles

. . intermediate range ballistic missiles

... polaris missiles

. . . . Polaris A1 missile

. . . . Polaris A2 missile

Polaris A3 missile

multistage rocket vehicles solid propellant rocket engines

XM-33 engine

Polaris submarines

USE guided missile submarines

# polariscopes

DEF Instruments for detecting polarized radiation and investigating its properties.

measuring instruments

polariscopes

Senarmont polariscopes

optical equipment

polariscopes

. Senarmont polariscopes

optical measuring instruments polarimeters

polarization (waves)

polarizers

# polaritons

GS polaritons plasmons

polarity

DEF The sign of the electric discharge associated with a given object, as an electrode or an ion.

RT ∞ dipoles electric charge electric fields

magnetic fields magnetic poles polarization (charge separation) polarization (spin alignment) quadrupoles

#### ∞ polarization

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED.-CONSULT THE TERMS LISTED BELOW)
The state of electromagnetic radiation SN

when transverse vibrations take place in some regular manner, e.g., all in one plane, in a circle, in an ellipse, or in some other definite curve. With respect to particles in an electric field, the displacement of the charge centers within a particle in response to the electric force acting thereon. The response of the molecules of a paramagnetic medium (such as iron) when subjected to a magnetic field.

RT antiferroelectricity bipolarity linear pólarization magnetization optical polarization Overhauser effect photoelastic analysis polarization (charge separation) polarization (spin alignment) polarization (waves) polarized radiation

# polarization (charge separation)

charge separation

polarization (charge separation)

. dielectric polarization electrolytic polarization

charge distribution

charge transfer deactivation

depolarization

electrets

electric charge electric moments

electrode film barriers

electromigration

Hall effect

ionospheric drift magnetization

overvoltage

polar gases

polarity

polarization

pyroelectricity

∞ separation Tafel law

# polarization (spin alignment)

RT alignment anisotropy

deactivation

magnetic properties magnetization

∞ orientation

polarity ∞ polarization rotation

spin tests

polarization (waves) polarization charts

polarization (waves)

circular polarization

. cross polarization elliptical polarization

linear polarization

anisotropic media anisotropy beamforming

birefringence BL Lacertae objects

collimation

electromagnetic properties Faraday effect Kerr electrooptical effect

Kerr magnetooptical effect magneto-optics monochromatization optical coupling

optical properties

# polarization characteristics

|          | ovientation  |          | nh ata alaatiaitu  |                 | violence                       |
|----------|--|----------|--|-----------------|--------------------------------|
| ٥        | <ul> <li>orientation</li> <li>photoelastic analysis</li> </ul> |          | photoelasticity  |                 | violence                       |
|          | polarimetry  |          | zodiacal light   | policies        |                                |
|          | polariscopes   | nolariz  | ed radiation   | GS              | policies                       |
|          | o polarization   | GS       | polarized radiation                                      | 00              | . energy policy                |
|          | polarization modulation  |          | . polarized elastic waves                                |                 | . foreign policy               |
|          | polarized electromagnetic radiation                            |          | . polarized electromagnetic radiation                    |                 | international relations        |
|          | polarizers   |          | polarized light  |                 | international cooperation      |
|          | polarons   |          | synchrotron radiation                                    |                 | outer space treaty             |
|          | refractivity   | RT       | caustics (optics)  |                 | . patent policy                |
|          | rotation   |          | elastic waves  |                 | . procurement policy           |
|          |  |          | electromagnetic radiation                                | RT              | copyrights                     |
| polariza | ation characteristics  |          | extraterrestrial radiation                               |                 | governments                    |
| GS       | magnetic properties  |          | linear polarization                                      |                 | licensing                      |
|          | polarization characteristics                                   |          | plasma radiation   |                 | prohibition                    |
| RT       | Brewster angle   | 0        | ∞ polarization   |                 | regulations                    |
| 0        | <ul><li>characteristics</li></ul>                              |          | polarization characteristics                             |                 | rules                          |
|          | polarized radiation  | 0        | ∞ radiation  |                 |                                |
|          | zwitterions  | c        | ∞ rays   | poliom          |                                |
|          |  |          |  | GS              | diseases                       |
|          | tion charts  | polarizo |  |                 | . infectious diseases          |
| USE      | graphs (charts)  | DEF      | Devices for polarizing radiant energy.                   |                 | viral diseases                 |
|          | polarization (waves)   | RT       | Kerr cells   |                 | poliomyelitis                  |
|          | . e 1 1 . e  |          | light (visible radiation)                                | D " / 3         | FO 44 ' "                      |
| •        | ation modulation   |          | optical polarization                                     |                 | TS-11 aircraft                 |
| ,        | ed March 1995)   |          | polarimeters   | USE             | TS-11 aircraft                 |
| GS       | modulation   |          | polariscopes   | naliaha         | d metals                       |
| DT       | . polarization modulation                                      |          | polarization (waves) polarized electromagnetic radiation | polisned<br>USE | metal polishing                |
| RT       | light modulation optical communication                         |          | polarized electromagnetic radiation                      | USE             | metai polisiiliy               |
|          | optical polarization   | polarog  | ranhs  | polishii        | na                             |
|          |  | USE      | polarography   | GS              | polishing                      |
|          | polarization (waves) polarized electromagnetic radiation       | 002      | po.a g. apy  | 00              | . metal polishing              |
|          | polarized electromagnetic radiation                            | polarog  | graphy   |                 | electropolishing               |
| nolariz  | ed elastic waves   | . UF     | polarographs   |                 | . vibratory polishing          |
| GS       | elastic waves  | GS       | electrical measurement                                   | RT              | abrasion                       |
| -        | . polarized elastic waves                                      |          | . polarography   |                 | cleaning                       |
|          | polarized radiation  | RT       | chemical analysis  |                 | finishes                       |
|          | . polarized elastic waves                                      |          | optical polarization                                     |                 | grinding (material removal)    |
| RT       | S waves  |          | polarimeters   |                 | metallography                  |
|          | seismic waves  |          | quantitative analysis                                    |                 | smoothing                      |
|          | sound waves  |          |  |                 | surface finishing              |
|          |  | polaror  |  |                 | ultrasonic cleaning            |
| polarizo | ed electromagnetic radiation                                   | GS       | elementary excitations                                   |                 | · ·                            |
| GS       | electromagnetic radiation                                      |          | . polarons   | politics        | i                              |
|          | . polarized electromagnetic                                    |          | particles  | RT              | air law                        |
|          | radiation  |          | . charged particles                                      |                 | communities                    |
|          | polarized light  |          | energetic particles                                      |                 | culture (social sciences)      |
|          | synchrotron radiation  |          | electrons  |                 | governments                    |
|          | polarized radiation  |          | polarons   |                 | international cooperation      |
|          | . polarized electromagnetic                                    |          | . corpuscular radiation                                  |                 | international law              |
|          | radiation  |          | energetic particles                                      |                 | law (jurisprudence)            |
|          | polarized light  |          | electrons  |                 | nations                        |
|          | synchrotron radiation  |          | polarons   |                 | regimes                        |
| RT       | cross polarization   |          | . elementary particles                                   |                 | sociology                      |
|          | extraterrestrial radiation                                     |          | fermions   |                 | sovereignty                    |
|          | Faraday effect   |          | leptons electrons  |                 | United Nations                 |
|          | infrared radiation   |          | polarons   |                 | voting                         |
|          | Kerr cells   | RT       | conduction bands   |                 | warfare                        |
|          | light (visible radiation)                                      | 13.1     | cross polarization                                       | mallan          |                                |
|          | linear polarization  |          | electron phonon interactions                             | pollen          | nortialas                      |
|          | Lyman alpha radiation  |          | ionic crystals   | GS              | particles                      |
|          | Lyman beta radiation magneto-optics                            |          | phonons  | RT              | . <b>pollen</b><br>aerobiology |
|          |  |          | plasmons   | KI              | air pollution                  |
|          | monochromatic radiation polarization (waves)                   |          | polarization (waves)                                     |                 | dust                           |
|          | polarization (waves)   |          |  |                 | plants (botany)                |
|          | polarizers   | ∞ poles  |  |                 | plants (botally)               |
|          | ∘ radiation  | SN       | (USE OF A MORE SPECIFIC TERM IS                          | pollutan        | nts                            |
|          | radiative transfer   |          | RECOMMENDEDCONSULT THE TERMS                             | USE             | contaminants                   |
|          | radio waves  | PT a     | LISTED BELOW)<br>∞ dipoles                               | 002             | Comaminanto                    |
|          | stellar radiation  | 101 -    | magnetic dipoles   | pollutio        | on .                           |
|          | ultraviolet radiation  |          | magnetic poles   | GS              | pollution                      |
|          | an arrorer radiation   |          | monopoles  |                 | . environment pollution        |
| polariz  | ed light   |          | poles (supports)   |                 | air pollution                  |
| GS       | electromagnetic radiation                                      |          | Regge poles  |                 | global air pollution           |
|          | . light (visible radiation)                                    |          | rioggo polos   |                 | indoor air pollution           |
|          | polarized light  | poles (  | supports)  |                 | soil pollution                 |
|          | . polarized electromagnetic radiation                          | RT       | electric power transmission                              |                 | water pollution                |
|          | . polarized light  |          | ∞ poles  |                 | oil pollution                  |
|          | polarized radiation  |          |  |                 | . noise pollution              |
|          | . polarized electromagnetic radiation                          | police   |  |                 | . thermal pollution            |
|          | polarized light  | GS       | personnel  | RT              | clean fuels                    |
| RT       | ellipsometry   |          | police   |                 | contaminants                   |
|          | gegenschein  | RT       | communities  |                 | contamination                  |
|          | Kerr magnetooptical effect                                     |          | crime  |                 | debris                         |
|          | monochromatic radiation  |          | military personnel                                       |                 | decontamination                |
|          | optical activity   |          | regulations  |                 | dissipation                    |
|          | optical depolarization   |          | security   |                 | elimination                    |
|          | optical polarization   |          | social factors   |                 | endangered species             |

# polybutadiene tetranitramine

| anaray policy                                   | . metalloids                               | . nitriles                                     |
|---|--|--|
| energy policy                                   |  |  |
| environment effects                             | . polonium                                 | acrylonitriles                                 |
| environment protection                          | polonium isotopes                          | polyacrylonitrile                              |
| environmental quality                           | polonium 208                               | RT acrylic resins                              |
| environmental surveys                           | polonium 209                               | carbon fibers                                  |
| human wastes                                    | polonium 210                               | ∞ polymers                                     |
| metabolic wastes                                | RT metals                                  | synthetic fibers                               |
| Microcystis                                     | TT Motoro                                  | dynarioad libero                               |
|   | nalarium 200                               | polyamide resins                               |
| microorganisms                                  | polonium 208                               |  |
| nonpoint sources                                | GS chemical elements                       | UF nylon resins                                |
| oil slicks                                      | . metalloids                               | GS plastics                                    |
| poisons   | polonium                                   | . synthetic resins                             |
| prevention                                      | polonium isotopes                          | thermosetting resins                           |
| public health                                   | polonium 208                               | furan resins                                   |
| ·   | . nuclides                                 |  |
| purity  |  | polyamide resins                               |
| quality   | isotopes                                   | Kevlar (trademark)                             |
| radioactive wastes                              | polonium isotopes                          | Nylon (trademark)                              |
| smoke abatement                                 | polonium 208                               | resins   |
| solid wastes                                    | radioactive isotopes                       | . synthetic resins                             |
| toxicology                                      | polonium 208 ်                             | thermosetting resins                           |
|   | RT metals                                  | furan resins                                   |
| waste disposal                                  | IXI metals                                 |  |
| wastes  |  | polyamide resins                               |
| water   | polonium 209                               | Kevlar (trademark)                             |
| water reclamation                               | GS chemical elements                       | Nylon (trademark)                              |
| water treatment                                 | . metalloids                               | RT aramid fiber composites                     |
|   | polonium                                   | aramid fibers                                  |
| pollution control                               | polonium isotopes                          |  |
| GS environmental control                        |  | polyatomic gases                               |
|   | polonium 209                               | polyatomic gases                               |
| pollution control                               | . nuclides                                 | GS gases                                       |
| RT air quality                                  | isotopes                                   | . molecular gases                              |
| biochemical oxygen demand                       | polonium isotopes                          | polyatomic gases                               |
| ∞ control                                       | polonium 209                               | diatomic gases                                 |
|   | radioactive isotopes                       | diatornio gados                                |
| dewatering                                      | ·  | mahratamia malaarilaa                          |
| environmental cleanup                           | polonium 209                               | polyatomic molecules                           |
| environmental surveys                           | RT metals                                  | GS molecules                                   |
| flue gases                                      |  | . polyatomic molecules                         |
| fly ash   | polonium 210                               | diatomic molecules                             |
| particulates                                    | GS chemical elements                       | triatomic molecules                            |
| particulates                                    |  |  |
| material states                                 | . metalloids                               |  |
| pollution monitoring                            | polonium                                   | buckminsterfullerene                           |
| RT air pollution                                | polonium isotopes                          | chemical bonds                                 |
| air quality                                     | polonium 210                               | ∞ chemical compounds                           |
| ambience  | . nuclides                                 | fullerenes                                     |
|   |  | ions   |
| environment pollution                           | isotopes                                   |  |
| global air pollution                            | polonium isotopes                          | molecular structure                            |
| ground stations                                 | polonium 210                               | molecular weight                               |
| in situ measurement                             | radioactive isotopes                       | positive ions                                  |
| monitors  | polonium 210                               | 1  |
| particulates                                    | RT metals                                  | polybenzimidazole                              |
|   | KT IIIelais                                |  |
| soil pollution                                  |  | GS nitrogen compounds                          |
| warning systems                                 | polonium compounds                         | . nitrogen polymers                            |
| water pollution                                 | RT ∞ chemical compounds                    | polybenzimidazole                              |
| water sampling                                  |  | RT synthetic fibers                            |
| mater sampling                                  |  | ,  |
| nollution transport                             | polonium isotopes                          | polyblends                                     |
| pollution transport                             |  |  |
| DEF Dispersing or diffusion of atmospheric      | GS chemical elements                       | USE polymer blends                             |
| or water pollutants. Used for atmospheric load- | . metalloids                               |  |
| ing.  | polonium                                   | polybrominated biphenyls                       |
| UF atmospheric loading                          | polonium isotopes                          | DEF A group of 209 chemicals whose tox         |
| GS environmental transport                      | polonium 208                               | icity varies and includes principally one fire |
| ·   | polonium 209                               | retardant called firemaster. Used for PBB.     |
| pollution transport                             |  |  |
| RT aerosols                                     | polonium 210                               | UF PBB   |
| air pollution                                   | . nuclides                                 | GS phenyls                                     |
| atmospheric circulation                         | isotopes                                   | . polybrominated biphenyls                     |
| atmospheric diffusion                           | polonium isotopes                          | toxins and antitoxins                          |
| combustion products                             | polonium 208                               | . polybrominated biphenyls                     |
| dispersing                                      | polonium 209                               | RT bromine compounds                           |
|   | •  |  |
| environment pollution                           | polonium 210                               | flame retardants                               |
| exhaust emission                                | RT metals                                  | polychlorinated biphenyls                      |
| exhaust gases                                   |  |  |
| gas transport                                   | polyacetylene                              | polybutadiene                                  |
| gaseous diffusion                               | DEF An aliphatic organic polymer that has  | GS organic compounds                           |
|   | high semiconductor properties which can be | . hydrocarbons                                 |
| global air pollution                            |  |  |
| plumes  | enhanced by doping.                        | aliphatic hydrocarbons                         |
| thermal pollution                               | RT conducting polymers                     | dienes   |
| trace contaminants                              | semiconductors (materials)                 | polybutadiene                                  |
| transport properties                            |  | plastics                                       |
| transport theory                                | polyacrylates                              | . polybutadiene                                |
|   | USE acrylic resins                         | RT addition resins                             |
| water circulation                               | OOL adiyild lesilis                        |  |
| water pollution                                 |  | block copolymers                               |
|   | polyacrylonitrile                          | butadiene                                      |
| poloidal flux                                   | (added January 1990)                       | HTPB propellants                               |
| DEF Plasma confinement concept with mul-        | UF PAN (polyacrylonitrile)                 | synthetic rubbers                              |
| tipole magnetic fields.                         | GS nitrogen compounds                      | -,   |
|   | . nitriles                                 | polybutadiene tetranitramine                   |
| RT magnetic field configurations                |  |  |
| tokamak devices                                 | acrylonitriles                             | GS nitrogen compounds                          |
| toroidal plasmas                                | polyacrylonitrile                          | . nitro compounds                              |
|   | . nitrogen polymers                        | polybutadiene tetranitramine                   |
| polonium  | . polyacrylonitrile                        | . nitrogen polymers                            |
| GS chemical elements                            | organic compounds                          | polybutadiene tetranitramine                   |
| O OHOHIIOGI GIGIIIGIIIG                         | organio compoundo                          | porybutatione tetramitianime                   |

RT plastic propellants RT vulcanized elastomers UF polyblends polymer alloys polvetheretherketones polycarbonates mixtures USE PEEK . polymer blends GS carbon compounds carbonates copolymers polyethylene terephthalate . . polycarbonates polymer physics GS esters . . Lexan (trademark) ∞ polymers . polyethylene terephthalate thermoplastic resins plastics . polycarbonates . polyethylenes . Lexan (trademark) polymer chemistry polycarbosilanes polyethylene terephthalate RT biopolymer denaturation terephthalate ∞ chemistry ∞ polymers polyethylene terephthalate glass transition temperature addition resins polycarbosilanes oligomers Mylar (trademark) (added July 1991) phosphazene silicon polymers polymers polymer physics polysilanes ∞ polymers polyethylenes . polycarbosilanes polywater plastics GS ceramic fibers polyethylenes polymer matrix composites organometallic polymers . polyethylene terephthalate DEF Materials consisting of reinforcing fipolycarbonates addition resins bers, filaments, and/or whiskers embedded in silanes ethylene polymeric bonding matrices for increased mesilicon carbides synthetic resins chanical and physical properties. thermoplastic resins polychlorinated biphenyls GS composite materials PCB . polymer matrix composites polygonization phenyls . . epoxy matrix composites RT crystal defects polychlorinated biphenyls ... boron-epoxy composites crystal growth polybrominated biphenyls ... graphite-epoxy composites recrystallization . . graphite-polyimide composites polycrystals . . reinforced plastics polygons . . . carbon fiber reinforced plastics GS crystals geometry polycrystals .... carbon-phenolic composites . Euclidean geometry ... glass fiber reinforced plastics bicrystals . . polygons crystal structure . . micarta ... hexagons single crystals RT aramid fiber composites . . . tetragons bismaleimide . . . . parallelograms polycyclic aromatic hydrocarbons boron fibers . . . . . rhomboids (added November 1994) ∞ construction materials . . . . rectangles fiber composites ... squares (mathematics) GS organic compounds hybrid composites . . . . trapezoids . cyclic compounds laminates . . triangles . . cyclic hydrocarbons ∞ materials RT polytopes polycyclic aromatic matrices hydrocarbons matrix materials polyhedrons . hydrocarbons nanocomposites GS geometry . . cyclic hydrocarbons **PEEK** . Euclidean geometry ... polycyclic aromatic  $\infty$  polymers . . polyhedrons hydrocarbons pultrusion RT ∞ aromatic compounds combustion products . . . cubes (mathematics) resin film infusion icosahedrons resin matrix composites ... octahedrons cosmic dust resin transfer molding . . . parallelepipeds diffuse interstellar bands sheet molding compounds . . . pyramids interstellar matter . . . rhombohedrons polymer physics . . tetrahedrons polycythemia RT glass transition temperature buckminsterfullerene hemoglobin ∞ physics fullerenes hemolysis polymer blends polytopes hemorrhages polymer chemistry spleen ∞ polymers polyimide resins polywater resins GS polyester resins ∞ science polyimide resins GS plastics bismaleimide . synthetic resins polymerase chain reaction polyimides . polyester resins (added August 2004) resin matrix composites resins DEF In vitro methods for producing large . synthetic resins amounts of specific DNA or RNA fragments of polvimides . polyester resins defined length and sequence from small nitrogen compounds Dacron (trademark) amounts of short oligonuleotide flanking se-. amides thermosetting resins quences (primers). The essential steps include . . polyimides thermal denaturation of the double-stranded tar-. . . bismaleimide get molecule, annealing of the primers to their . Kapton (trademark) Polymers in which the repeated struccomplementary sequences, and extension of polyimide resins the annealed primers by enzymatic synthesis tural unit in the chain is of the ester type. esters with DNA polymerase. polyisobutylene . polyesters GS in vitro methods and tests ĞS plastics RT ∞ polymers polymerase chain reaction polyisobutylene synthetic fibers biochemistry RT addition resins deoxyribonucleic acid synthetic rubbers polyether resins genetic engineering GS plastics oligonucleotides polyisoprenes . synthetic resins RT ∞ polymers .. polyether resins polymeric films rubber . . . PEEK plastic films synthetic rubbers . . . polymethyl methacrylate polymeric films . Kapton (trademark) resins polymer alloys . synthetic resins . Mylar (trademark) USE polymer blends

polymer blends

(added November 1992)

casting conducting polymers

fibers

... polyether resins

... polymethyl methacrylate

| CI   |  |   |
|--|--|---|
| ∞ films  | vinyl copolymers                               | acids linked by peptide bonds but with lower    |
| Langmuir-Blodgett films                        | vinyl polymers                                 | molecular weights than proteins; obtained by    |
| Nylon (trademark)                              |  | synthesis or by partial hydrolysis of proteins. |
| photographic film                              | polymethyl methacrylate                        | GS organic compounds                            |
|  |  |   |
| plastic coatings                               | UF lucite (trademark)                          | . peptides                                      |
| polypyrroles                                   | plexiglass (trademark)                         | polypeptides                                    |
| ∞ sheets                                       | GS plastics                                    | angiotensins                                    |
|  | . synthetic resins                             | glutathione                                     |
|  | •  |   |
| polymerization                                 | polyether resins                               | hypertensin                                     |
| DEF A chemical reaction in which the mol-      | polymethyl methacrylate                        | RT amino acids                                  |
|  | resins   | biopolymers                                     |
| ecules of monomers are linked together to form |  |   |
| polymers.                                      | . synthetic resins                             | proteins  |
| GS synthesis (chemistry)                       | polyether resins                               |   |
| . polymerization                               | polymethyl methacrylate                        | polyphenyl ether                                |
|  |  |   |
| copolymerization                               | vinyl polymers                                 | GS ethers                                       |
| dimerization                                   | . polymethyl methacrylate                      | . polyphenyl ether                              |
| RT chemical reactions                          |  |   |
|  | polymorphism                                   | nolyphonyle                                     |
| coupled modes                                  |  | polyphenyls                                     |
| cycloaddition                                  | GS morphology                                  | GS phenyls                                      |
| depolymerization                               | . polymorphism                                 | . polyphenyls                                   |
|  | RT allotropy                                   | tetraphenyls                                    |
| electrochemical synthesis                      |  |   |
| oligomers                                      | crystal lattices                               | triphenyls                                      |
| quinoxalines                                   | crystal structure                              |   |
|  | ∞ physical properties                          | polypropylene                                   |
| refining                                       | priyolodi proportioo                           |   |
| ∞ setting                                      |  | GS plastics                                     |
| Ziegler catalyst                               | polynomials                                    | . polypropylene                                 |
| • •  | GS algebra                                     | RT addition resins                              |
| zwitterions                                    | •  |   |
|  | polynomials                                    | synthetic resins                                |
| m nolymers                                     | binomials                                      |   |
| ∞ polymers                                     | dyadics  | polypyrroles                                    |
| SN (USE OF A MORE SPECIFIC TERM IS             | Hermitian polynomial                           | (added August 1994)                             |
| RECOMMENDEDCONSULT THE TERMS                   | 1 ,  |   |
| LISTED BELOW)                                  | RT coefficients                                | UF PPY  |
| RT biopolymers '                               | cubic equations                                | RT conducting polymers                          |
| block copolymers                               |  | 31.7  |
|  | eigenvalues                                    | electrode materials                             |
| cellophane                                     | eigenvectors                                   | polymeric films                                 |
| conducting polymers                            | ∞ equations                                    | pyrroles  |
| coordination polymers                          |  | F)  |
|  | linear equations                               |   |
| copolymerization                               | nonlinear equations                            | polyquinoxalines                                |
| copolymers                                     | quadratic equations                            | RT ∞ chemical compounds                         |
| dendrimers                                     |  | ∞ polymers                                      |
|  | roots of equations                             | ∞ polymers                                      |
| elastomers                                     | shape functions                                |   |
| electroactive polymers                         | •  | polysaccharides                                 |
| ferroelectric materials                        | nolymuologe organia compounds                  | GS biopolymers                                  |
|  | polynuclear organic compounds                  |   |
| fluoropolymers                                 | DEF Hydrocarbon molecules with two or          | . polysaccharides                               |
| formica  | more nuclei and with or without oxygen, nitro- | cellulose                                       |
| glycidyl azide polymer                         | gen, or other elements.                        | Fortisan (trademark)                            |
|  | •  |   |
| high polymers                                  | GS organic compounds                           | chitin  |
| Kapton (trademark)                             | . polynuclear organic compounds                | dextrans  |
| KEL-F  | RT air pollution                               | glycogens                                       |
|  |  |   |
| Lexan (trademark)                              | ∞ chemical compounds                           | starches  |
| lignin   | petroleum products                             | organic compounds                               |
| macromolecules                                 | purification                                   | . carbohydrates                                 |
|  | pullication                                    | •   |
| methyl polysiloxanes                           |  | polysaccharides                                 |
| micarta  | polynucleotides                                | cellulose                                       |
| monomers                                       | DEF Linear sequences of esters of nucle-       | Fortisan (trademark)                            |
|  |  | ,   |
| Mylar (trademark)                              | otides and phosphoric acid.                    | chitin  |
| nitrogen polymers                              | GS organic compounds                           | dextrans  |
| Nylon (trademark)                              | . nucleotides                                  | glycogens                                       |
|  |  |   |
| oligomers                                      | polynucleotides                                | starches  |
| oligonucleotides                               | phosphorus compounds                           | RT gums (substances)                            |
| organic materials                              | phosphates                                     |   |
| organometallic polymers                        |  | polysilanes                                     |
|  | polynucleotides                                |   |
| oxetane polymers                               | RT biopolymers                                 | (added July 1991)                               |
| phosphorus polymers                            | proteins                                       | UF oxosilanes                                   |
| photopolymers                                  | ribonucleic acids                              | GS silicon polymers                             |
|  | ווויטוועטופוט מטועס                            |   |
| plastics                                       |  | polysilanes                                     |
| polyacrylonitrile                              | polynyas                                       | polycarbosilanes                                |
| polycarbonates                                 | (added July 2001)                              | RT organometallic polymers                      |
|  |  |   |
| polyesters                                     | DEF Large areas of open water surrounded       | ∞ polymers                                      |
| polyethylene terephthalate                     | by sea ice.                                    | silanes   |
| polyisoprenes                                  | UF ice clearings                               |   |
|  |  | a a brail arrange                               |
| polymer blends                                 | GS clearings (openings)                        | polysiloxanes                                   |
| polymer chemistry                              | . polynyas                                     | (added July 1991)                               |
| polymer matrix composites                      | RT air sea ice interactions                    | UF polyorganosiloxanes                          |
|  |  |   |
| polymer physics                                | Antarctic regions                              | GS silicon polymers                             |
| polyquinoxalines                               | Arctic Ocean                                   | . silicones                                     |
| polysilanes                                    | ocean surface                                  | polysiloxanes                                   |
|  |  |   |
| polysiloxanes                                  | polar regions                                  | methyl polysiloxanes                            |
| polytetrafluoroethylene                        | sea ice  | RT ∞ polymers                                   |
| polyurethane foam                              | surface water                                  | silicon compounds                               |
|  | Sundos water                                   |   |
| polyvinyl fluoride                             |  | siloxanes                                       |
| prepolymers                                    | polyorganosiloxanes                            |   |
| Pyrrones (trademark)                           | USE polysiloxanes                              | polyslips                                       |
|  | OOL PUIYSIIUXAIIES                             |   |
| silicon polymers                               |  | RT ∞ slip                                       |
| silicones                                      | Polyot satellites                              |   |
|  |  | nolystation donalar tracking system             |
| siloxanes                                      | GS artificial satellites                       | polystation doppler tracking system             |
| solithanes                                     | . Polyot satellites                            | GS networks                                     |
| styrofoam (trademark)                          |  | . tracking networks                             |
|  | nolynontides                                   |   |
| synthetic resins                               | polypeptides                                   | polystation doppler tracking                    |
| teflon (trademark)                             | DEF In organic chemistry, chains of amino      | system  |
| , ,  | ,,   | •   |
|  |  | 741   |
|  |  |   |

|                           | stations  | thermodynamics  | mesons   |
|---------------------------|---|---|--|
|                           | . ground stations   |   | nucleon-nucleon scattering   |
|                           | polystation doppler tracking  | polyurethane foam   | pomerons   |
|                           | system  | RT foams  | Regge poles  |
|                           | . tracking stations   | low density materials   | scattering cross sections  |
|                           | polystation doppler tracking  | ∞ polymers  |  |
|                           | system  | soils   | pomerons   |
|                           | tracking (position)   | sponges (materials)   | RT nuclear reactions   |
|                           | . polystation doppler tracking  | and the second of the second of   | Pomeranchuk theorem  |
|                           | system  | polyurethane resins   | proton-proton reactions  |
| RT                        | Doppler radar   | GS resins   | Regge poles  |
|                           | missile tracking  | . polyurethane resins   | scattering   |
|                           | pulse radar   | RT composite propellants  | scattering cross sections  |
|                           | radar networks  | polyvinyl alcohol   | nonderemetive ferees   |
|                           | satellite doppler positioning   |   | ponderomotive forces   |
|                           | space detection and tracking system   | GS hydroxyl compounds . alcohols  | GS electromotive forces  |
|                           | spacecraft tracking   |   | . ponderomotive forces   |
| 00                        | systems   | <b>polyvinyl alcohol</b><br>plastics  | RT electrodynamics   |
|                           |   | . polyvinyl alcohol   | ∞ force<br>Lorentz force   |
| polysty                   | rene  | vinyl polymers  | relativistic plasmas   |
| GS                        | plastics  | . polyvinyl alcohol   | the contract of the contract o |
|                           | . polystyrene   | RT addition resins  | relativity   |
|                           | styrofoam (trademark)   | synthetic resins  | ponds  |
|                           | styrenes  | Synthetic resins  | DEF Natural bodies of standing fresh water   |
|                           | . polystyrene   | polyvinyl chloride  | occupying small surface depressions, usually   |
|                           | styrofoam (trademark)   | UF Geon (trademark)   | smaller than lakes and larger than pools.  |
|                           | vinyl polymers  | GS plastics   | RT aquifers  |
|                           | . polystyrene   | . polyvinyl chloride  | Great Salt Lake (UT)   |
|                           | styrofoam (trademark)   | vinyl polymers  | irrigation   |
| RT                        | addition resins   | . polyvinyl chloride  | lagoons  |
|                           | block copolymers  | RT addition resins  | lakes  |
|                           | Santowax (trademark)  | chlorides   | limnology  |
|                           | synthetic resins  | synthetic resins  | liquid wastes  |
|                           | thermoplastic resins  | tetrahydrofuran   | reservoirs   |
|                           |   | totrarry aroraran   | solar ponds (heat storage)   |
| polysul                   | fides   | polyvinyl fluoride  | surface water  |
| ĞS                        | chalcogenides   | DEF DuPont's Tedlar, unplasticized PVF  | waste disposal   |
|                           | . sulfides  | films with outstanding resistance to ultraviolet  | water resources  |
|                           | inorganic sulfides  | radiation. Used for Tedlar (trademark).   | water resources watersheds   |
|                           | polysulfides  | UF Tedlar (trademark)   | windpowered pumps  |
|                           | sulfur compounds  | GS halogen compounds  | milaponolog pampo  |
|                           | . sulfides  | . fluorine compounds  | Pontiac (MI)   |
|                           | inorganic sulfides  | fluorides   | GS cities  |
|                           | polysulfides  | polyvinyl fluoride  | . Pontiac (MI)   |
| RT                        | composite propellants   | fluoro compounds  | RT Michigan  |
|                           |   | fluorine organic compounds  | <b>g.</b>  |
| nolytotr                  | afluoroethylene   | fluoropolymers  | pontryagin principle   |
|                           | halogen compounds   | polyvinyl fluoride  | RT calculus of variations  |
| GG                        | . fluorine compounds  | . halides   | maximum principle  |
|                           | fluoro compounds  | fluorides   | optimization   |
|                           | difluoro compounds  | polyvinyl fluoride  | reaction time  |
|                           |   |   |  |
|                           |   | organic compounds   |  |
|                           | polytetrafluoroethylene   | organic compounds<br>fluorine organic compounds   | Population I stars   |
|                           | teflon (trademark)  | organic compounds<br>. fluorine organic compounds<br>fluoropolymers   | Population I stars<br>(added May 2002)   |
|                           | teflon (trademark) fluorine organic compounds   | . fluorine organic compounds<br>fluoropolymers  | •  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons  | . fluorine organic compounds<br>fluoropolymers<br><b>polyvinyl fluoride</b>   | (added May 2002)   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene  | . fluorine organic compounds<br>fluoropolymers  | (added May 2002) DEF Young stars formed from matter of   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark)   | <ul><li>. fluorine organic compounds</li><li> fluoropolymers</li><li> polyvinyl fluoride</li><li>plastics</li></ul>   | (added May 2002)  DEF Young stars formed from matter of previous generations of stars (Population II   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride  | (added May 2002)  DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark)   | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride  | (added May 2002)  DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galax-  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polymers polyvinylidene   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds   | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polymers  polyvinylidene (added December 1997)  | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds   | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polymers polyvinylidene   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars . Population I stars RT B stars   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds . fluorohydrocarbons  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polyvinyl fluoride RT ∞ polymers  polyvinylidene (added December 1997) USE vinylidene   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars . Population I stars RT B stars interstellar matter   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorohydrocarbons polytetrafluoroethylene   | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polyvinyl fluoride RT ∞ polywers  polyvinylidene (added December 1997) USE vinylidene polywater   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars . Population I stars RT B stars interstellar matter irregular galaxies  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds fluorine organic compounds . fluorohydrocarbons polytetrafluoroethylene teflon (trademark)  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polymers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars RT B stars interstellar matter irregular galaxies O stars  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers   | . fluorine organic compounds . fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polymers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars  RT B stars interstellar matter irregular galaxies O stars open clusters   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorohydrocarbons polytetrafluoroethylene teflon (trademark) if uoropolymers polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polymers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars RT B stars interstellar matter irregular galaxies O stars  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorohydrocarbons polytetrafluoroethylene teflon (trademark) .fluoropolymers polytetrafluoroethylene teflon (trademark) polytetrafluoroethylene teflon (trademark)  | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polywinyl fluoride RT ∞ polywinys  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure chemical bonds   | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars . Population I stars  RT B stars interstellar matter irregular galaxies O stars open clusters Population II stars   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) hydrocarbons   | . fluorine organic compounds . fluoropolymers . polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polywinyl fluoride RT ∞ polywers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure chemical bonds molecular structure  | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars . Population I stars  RT B stars interstellar matter irregular galaxies O stars open clusters Population II stars  Population II stars  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorine organic compounds polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) hydrocarbons fluorohydrocarbons  | . fluorine organic compounds . fluoropolymers . polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polywers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure chemical bonds molecular structure polymer chemistry  | (added May 2002)  DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars  RT B stars interstellar matter irregular galaxies O stars open clusters Population II stars  Population II stars (added May 2002)  |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorine organic compounds .fluorohydrocarbons polytetrafluoroethylene teflon (trademark) .fluoropolymers polytetrafluoroethylene teflon (trademark) .hydrocarbons .fluorohydrocarbons .nydrocarbons .fluorohydrocarbons .fluorohydrocarbons .polytetrafluoroethylene  | . fluorine organic compounds . fluoropolymers . polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polywinyl fluoride RT ∞ polywers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure chemical bonds molecular structure  | (added May 2002)  DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars  RT B stars interstellar matter irregular galaxies O stars open clusters Population II stars  Population II stars (added May 2002) DEF Old, low-metallicity stars up to 15 bil-   |
|                           | teflon (trademark) fluorine organic compounds fluorohydrocarbons polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) organic compounds .fluorine organic compounds .fluorine organic compounds polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) fluoropolymers polytetrafluoroethylene teflon (trademark) hydrocarbons fluorohydrocarbons fluorohydrocarbons polytetrafluoroethylene teflon (trademark) plastics polytetrafluoroethylene   | . fluorine organic compounds fluoropolymers polyvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polywinyl fluoride RT ∞ polywers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure chemical bonds molecular structure polymer chemistry polymer physics  | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population III stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars . Population I stars  RT B stars interstellar matter irregular galaxies O stars open clusters Population II stars  (added May 2002) DEF Old, low-metallicity stars up to 15 billion years in age found in globular clusters,   |
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| RT∝                       | teflon (trademark) . fluorine organic compounds . fluorohydrocarbons . polytetrafluoroethylene . teflon (trademark) . fluoropolymers . polytetrafluoroethylene . teflon (trademark) organic compounds . fluorine organic compounds . fluorine organic compounds . fluorohydrocarbons . polytetrafluoroethylene . teflon (trademark) . fluoropolymers . polytetrafluoroethylene . teflon (trademark) . hydrocarbons . fluorohydrocarbons . polytetrafluoroethylene . teflon (trademark) . hydrocarbons . polytetrafluoroethylene . teflon (trademark) plastics . polytetrafluoroethylene . teflon (trademark) plastics . polytetrafluoroethylene . teflon (trademark)                  | . fluorine organic compounds . fluoropolymers . pluvinyl fluoride plastics . polyvinyl fluoride vinyl polymers . polyvinyl fluoride RT ∞ polywers  polyvinylidene (added December 1997) USE vinylidene  polywater GS water . polywater RT atomic structure chemical bonds molecular structure polymer chemistry polymer physics  Pomeranchuk theorem GS theorems  | (added May 2002) DEF Young stars formed from matter of previous generations of stars (Population II stars), and having significant amounts of heavier elements. They are particularly concentrated in the interstellar dust of the arms of spiral galaxies.  GS celestial bodies . stars Population I stars RT B stars interstellar matter irregular galaxies O stars open clusters Population II stars  Population II stars  (added May 2002) DEF Old, low-metallicity stars up to 15 billion years in age found in globular clusters, elliptical galaxies, and the bulges and halos of spiral galaxies.  |
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| . stars                                    | GS boundary layer control       | . life support systems  |
|--|---------------------------------|---|
| Population III stars                       | . porous boundary layer control | portable life support systems                                   |
| RT cosmology                               | RT ∞ control                    | AEPS  |
| dark matter                                | convective flow                 | IMLSS   |
| relic radiation                            | Ekman layer                     | RT argon-oxygen atmospheres                                     |
| stellar evolution                          | free convection                 | biopaks   |
| supermassive stars                         | holes (mechanics)               | breathing apparatus   |
| ouponnacon o diaro                         | mass transfer                   | emergency life sustaining systems                               |
| population inversion                       |                                 | 0,  |
| GS inversions                              | perforated plates               | helium-oxygen atmospheres                                       |
|  | porosity                        | oxygen masks  |
| population inversion                       | wings                           | pressure suits  |
| RT electron pumping                        |                                 | ∞ systems   |
| energy levels                              | porous materials                |   |
| molecular relaxation                       | GS porous materials             | Portevin-le Chatelier effect                                    |
| nitrogen lasers                            | . porous silicon                | (added August 1997)   |
| nuclear pumping                            | RT aerogels                     | DEF A discontinuous yielding in crystalline                     |
| populations                                | brittle materials               | solids characterized by a serrated or step-like                 |
| stimulated emission                        | ∞ cells                         | deformation curve.  |
|  | honeycomb structures            | UF PLC effect   |
| population theory                          | interstices                     | RT crystal dislocations   |
| RT populations                             | low density materials           | deformation   |
| probability theory                         | ∞ materials                     |   |
|  |                                 | ∞ effects   |
| ∞ theories                                 | metal powder                    | strain rate   |
|  | porosity                        | stress-strain diagrams  |
| populations                                | powder metallurgy               | stress-strain relationships                                     |
| RT adults                                  | sands                           |   |
| biomass                                    | soils                           | ∞ ports   |
| discriminant analysis (statistics)         | sponges (materials)             | SN (USE OF A MORE SPECIFIC TERM IS                              |
| geographic distribution                    | xerogels                        | RECOMMENDEDCONSULT THE TERMS                                    |
| population inversion                       | Act og cic                      | LISTED BELOW)   |
| population theory                          | porous plates                   | RT airports   |
| ,  |                                 | deepwater terminals   |
| predators                                  | GS structural members           | drydocks  |
| ∞ statistics                               | . plates (structural members)   | harbors   |
|  | porous plates                   |   |
| porcelain                                  | RT low density materials        | ports (openings)  |
| GS ceramics                                | porosity                        | shipyards   |
| . porcelain                                |                                 | wharves   |
| refractory materials                       | porous silicon                  |   |
| . porcelain                                | (added September 1995)          | ports (openings)  |
| RT ceramic coatings                        | GS chemical elements            | GS openings   |
| enamels                                    | . metalloids                    | . ports (openings)  |
|  |                                 | RT apertures  |
| glass                                      | silicon                         | cavities  |
| glazes                                     | porous silicon                  |   |
| silicon dioxide                            | porous materials                | ducts   |
| vitreous materials                         | . porous silicon                | exhaust systems   |
| vitrification                              | RT cathodoluminescence          | orifices  |
|  | conduction bands                | outlets   |
| pores                                      | electroluminescence             | ∞ ports   |
| USE porosity                               | light sources                   | vents   |
|  | photoluminescence               | ∞ windows   |
| porosity                                   | •                               | windows (apertures)   |
| DEF The volume fraction of voids contained | porosity                        | windows (apertures)   |
|  |                                 | Dantonal  |
| in a solid, often expressed as a percent.  | porous walls                    | Portugal  |
| UF pores                                   | GS walls                        | GS nations  |
| GS porosity                                | . porous walls                  | . Portugal  |
| . microporosity                            | RT ∞ diffusers                  | Azores  |
| RT aquifers                                |                                 | RT Europe   |
| buoyancy                                   | porphines                       | Portuguese space program  |
| compressibility                            | GS organometallic compounds     | 0 1 1 0   |
| defects                                    | . porphines                     | Portuguese space program  |
| ∞ density                                  | RT chlorophylls                 | (added August 1990)   |
| density (mass/volume)                      | hemoglobin                      | , ,   |
| formations                                 | Hemoglobin                      | GS programs   |
|  | n a m la ma                     | . space programs  |
| gas injection                              | porphyra                        | European space programs   |
| hole distribution (mechanics)              | GS plants (botany)              | Portuguese space program  |
| hygral properties                          | . algae                         | RT Portugal   |
| impregnating                               | porphyra                        |   |
| infiltration                               |                                 | Poseidon missiles   |
| interstices                                | porphyrins                      | GS missiles   |
| leakage                                    | GS porphyrins                   | . ballistic missiles  |
| moisture resistance                        | . chlorophylls                  |   |
| permeability                               | RT hemoglobin                   | Poseidon missiles   |
| permeating                                 | TO Homoglobin                   | . surface to surface missiles                                   |
|  |                                 | fleet ballistic missiles  |
| pinholes                                   | porpoises                       | Poseidon missiles   |
| porous boundary layer control              | GS animals                      | RT ballistic missile submarines                                 |
| porous materials                           | . vertebrates                   | guided missile submarines                                       |
| porous plates                              | mammals                         | sea launching   |
| porous silicon                             | marine mammals                  | 223 10001011119   |
| ∞ properties                               | porpoises                       | Pagaidan catallita  |
| sintering                                  | -                               | Poseidon satellite  |
| textures                                   | portable equipment              | GS artificial satellites  |
| void ratio                                 | RT ∞ equipment                  | . French satellites   |
| voids                                      | lixiscopes                      | Poseidon satellite  |
|  |                                 | RT TOPEX  |
| wettability                                | logistics                       |   |
|  | mobility                        | ∞ position  |
| porous airfoils                            | stowage (onboard equipment)     | •   |
| USE porous boundary layer control          |                                 | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
| • •  | portable life support systems   | LISTED BELOW)   |
| porous boundary layer control              | UF PLSS                         | RT attitude (inclination)                                       |
| UF porous airfoils                         | GS support systems              | position (location)   |
| - 1  |                                 | F = 3.00 (.000)   |

position (title) sound localization trivalent ions valence position sensing position (location) RT computer vision positron annihilation localization UF electro-optics electron-positron annihilation location position (location) annihilation reactions GS position (location) position indicators . positron annihilation solar position RT robotics antiparticles altitude astrolabes electron-positron pairs elementary particles matter-antimatter propulsion positioning azimuth GS positioning bearing (direction) formation flying nuclear particles collating satellite doppler positioning pair production collocation stationkeeping coordinates particles RT adjusting detection alignment positronium distance ambiguity ephemerides RT atoms collating exposure excitons collocation ∞ fixing displacement geometry positrons distributing latitude Subatomic particles which are identical ∞ distribution Iongitude to electrons in atomic mass, theoretical rest exposure misalignment mass, and energy, but opposite in sign. fitting navigation GS antimatter ∞ fixing orbital position estimation . antiparticles Global Positioning System ∞ orientation .. positrons **GLONASS** ∞ points particles. instrument orientation ∞ position . charged particles ∞ joining position errors . positrons latitude measurement position sensing . elementary particles longitude measurement . . antiparticles positioning look angles (electronics) ... positrons radar beacons navigation sites . . fermions ∞ orientation sound ranging . . . leptons ply orientation . . . . positrons . nuclear particles spatial distribution position (location) spherical coordinates position errors . . antiparticles stations radio navigation survevs relocation tracking (position) electron-positron pairs ∞ setting electron-positron plasmas spacing position (title) pair production employee relations positioning devices (machinery) evaluation post boost propulsion system positioning devices (machinery) ∞ grade ascent trajectories booms (equipment) propulsion personnel cams propulsion system configurations ∞ position jigs rocket engines ratings RT ∞ devices holders spacecraft propulsion ∞ systems position errors jacks (lifts) trajectory control GS errors ∞ machinery . position errors slewing postamplifiers . boresight error positive feedback

DEF Feedback which results in increasing amplifiers GS RT astrolabes postamplifiers error signals preamplifiers navigation the amplification. Used for regenerative feedoptical correction procedure back orbit determination post-blast nuclear radiation regenerative feedback LIE orbital position estimation nuclear radiation feedback GS post-blast nuclear radiation position (location) positive feedback positioning RT fallout RT amplification velocity errors half life feedback amplifiers radiant flux density multivibrators ∞ radiation position indicators nonlinear feedback radiation effects GS display devices oscillators radioactive decay . position indicators regeneration (engineering) radioactivity . . plan position indicators self oscillation Vela satellites . . radio direction finders transfer functions . . spacecraft position indicators posterior sections measuring instruments positive ions RT anatomy . indicating instruments DEF Group of atoms which has acquired a dorsal sections .. position indicators positive electric charge by the loss of one or ... plan position indicators more electrons. postflight analysis . . . radio direction finders . spacecraft position indicators . positive ions RT ∞ analyzing aircraft instruments . . cations ∞ performance postmission analysis (spacecraft) altimeters . . . formyl ions . . . vanádyl radical beacons distance measuring equipment . hydronium ions postlaunch reports flight instruments atoms DEF Memoranda issued following space-Global Positioning System craft launchings to report launch data, the hydrogen ions head-up displays ion density (concentration) launch vehicle performance, orbital elements ionic mobility navigation aids (expected and measured), and current status. navigation instruments ionospheric ion density documents magnetospheric ion density postlaunch reports plotters position sensing metal ions reports postlaunch reports range finders molecular ions rocket-borne instruments prelaunch summaries monatomic molecules spacecraft launching polyatomic molecules sextants

protons

spacecraft performance

solar compasses

| summaries                                    | potassium 38                                 | . potassium peroxides                                |
|--|--|--|
|  | potassium 39                                 | . potassium phosphates                               |
| postmission analysis (spacecraft)            | GS chemical elements                         | . potassium silicates<br>RT ∞ alkali metal compounds |
| DEF A broader term than postflight analysis  | . alkali metals                              | ∞ chemical compounds                                 |
| which deals with the scientific aspects of a | potassium                                    | ∞ metal compounds                                    |
| mission.  RT flight tests                    | potassium isotopes                           |  |
| postflight analysis                          | potassium 39                                 | potassium hydrides                                   |
| p  | . nuclides                                   | GS hydrogen compounds                                |
| postulates                                   | isotopes                                     | . hydrides   |
| USE axioms                                   | potassium isotopes<br><b>potassium 39</b>    | metal hydrides<br><b>potassium hydrides</b>          |
|  | metals                                       | potassium compounds                                  |
| posture                                      | . alkali metals                              | . potassium hydrides                                 |
| GS posture                                   | potassium                                    |  |
| . head down tilt                             | potassium isotopes                           | potassium hydroxides                                 |
| . head up tilt                               | potassium 39                                 | GS bases (chemical)                                  |
| RT human body                                | matacaium 40                                 | . alkalies   |
| orthostatic tolerance                        | potassium 40 GS chemical elements            | <b>potassium hydroxides</b><br>hydroxides            |
| physical fitness                             | . alkali metals                              | . potassium hydroxides                               |
|  | potassium                                    | potassium compounds                                  |
| potable liquids                              | potassium isotopes                           | potassium hydroxides                                 |
| GS liquids                                   | potassium 40                                 |  |
| . <b>potable liquids</b><br>beverages        | . nuclides                                   | potassium iodides                                    |
| wines  | isotopes                                     | GS halogen compounds                                 |
| potable water                                | potassium isotopes                           | . halides<br>metal halides                           |
| RT purity                                    | <b>potassium 40</b><br>radioactive isotopes  | alkali halides                                       |
|  | potassium 40                                 | potassium iodides                                    |
| potable water                                | metals                                       | . iodine compounds                                   |
| GS liquids                                   | . alkali metals                              | iodides  |
| . potable liquids                            | potassium                                    | potassium iodides                                    |
| potable water                                | potassium isotopes                           | potassium compounds                                  |
| water  | potassium 40                                 | . potassium iodides                                  |
| . <b>potable water</b><br>RT cold water      | potassium alloys                             | potassium isotopes                                   |
| conservation                                 | GS alloys                                    | GS chemical elements                                 |
| consumables (spacecrew supplies)             | . potassium alloys                           | . alkali metals                                      |
| drought                                      |  | potassium  |
| fresh water                                  | potassium bromides                           | potassium isotopes                                   |
| ground water                                 | GS halogen compounds                         | potassium 38   |
| limnology                                    | . bromine compounds bromides                 | potassium 39<br>potassium 40                         |
| Modular Integrated Utility System            | potassium bromides                           | . nuclides   |
| oases<br>purification                        | . halides                                    | isotopes   |
| sanitation                                   | bromides                                     | potassium isotopes                                   |
| springs (water)                              | potassium bromides                           | potassium 38   |
| water management                             | metal halides                                | potassium 39   |
| water resources                              | potassium bromides                           | potassium 40   |
| water tables                                 | potassium compounds                          | metals   |
| water treatment                              | potassium bromides                           | . alkali metals<br>potassium                         |
|  | potassium channels (biology)                 | potassium isotopes                                   |
| potassium                                    | (added August 2002)                          | potassium 38   |
| GS chemical elements                         | USE ion channels (biology)                   | potassium 39   |
| . alkali metals<br><b>potassium</b>          |  | potassium 40   |
| liquid potassium                             | potassium chlorides                          |  |
| potassium isotopes                           | GS halogen compounds                         | potassium nitrates                                   |
| potassium 38                                 | . chlorine compounds<br>chlorides            | GS nitrogen compounds . nitrates                     |
| potassium 39                                 | potassium chlorides                          | . inorganic nitrates                                 |
| potassium 40                                 | . halides                                    | potassium nitrates                                   |
| metals                                       | chlorides                                    | potassium compounds                                  |
| . alkali metals<br><b>potassium</b>          | potassium chlorides                          | potassium nitrates                                   |
| liquid potassium                             | metal halides                                |  |
| potassium isotopes                           | potassium chlorides                          | potassium oxides                                     |
| potassium 38                                 | potassium compounds<br>. potassium chlorides | GS chalcogenides<br>. oxides                         |
| potassium 39                                 | . potassium chlorides                        | metal oxides   |
| potassium 40                                 | potassium chromates                          | potassium oxides                                     |
| RT electrolyte metabolism                    | GS chromium compounds                        | potassium compounds                                  |
| kreep  | chromates                                    | potassium oxides                                     |
|  | . potassium chromates                        |  |
| potassium 38                                 | potassium compounds                          | potassium perchlorates                               |
| GS chemical elements                         | . potassium chromates                        | GS halogen compounds                                 |
| . alkali metals<br>potassium                 | potassium compounds                          | . chlorine compounds<br>perchlorates                 |
| potassium isotopes                           | GS potassium compounds                       | perchlorates   |
| potassium 38                                 | . alum                                       | potassium compounds                                  |
| . nuclides                                   | . nepheline                                  | . potassium perchlorates                             |
| isotopes                                     | . potassium bromides                         | RT explosives  |
| potassium isotopes                           | potassium chlorides                          | solid rocket propellants                             |
| potassium 38                                 | . potassium chromates                        |  |
| radioactive isotopes                         | . potassium hydrides                         | potassium peroxides                                  |
| potassium 38                                 | . potassium hydroxides                       | GS chalcogenides                                     |
| metals<br>. alkali metals                    | . potassium iodides<br>. potassium nitrates  | . oxides<br>anhydrides                               |
| potassium                                    | . potassium oxides                           | peroxides  |
| potassium isotopes                           | . potassium perchlorates                     | potassium peroxides                                  |
| •  | •  |  |

potassium compounds heat transmission . . . powdered aluminum potassium peroxides inviscid flow . . sintered aluminum powder compressibility vorticity potassium phosphates crop dusting GS phosphorus compounds potential gradients dust . phosphates DEF In general, the local space rate of explosives . potassium phosphates change of any potential, as the gravitational flakes potassium compounds potential gradient or the velocity potential gradiflour (food) potassium phosphates granular materials GS gradients obsidian potassium silicates . potential gradients pumice GS potassium compounds RT pressure gradients size separation potassium silicates spark gaps silicon compounds temperature gradients powder metallurgy silicates DEF The art of producing metal powders potential theory potassium silicates and of the utilization of metal powders for the RT minerals differential equations production of massive materials and shaped Jacobi integral objects. potatoes Lennard-Jones potential alloying GS farm crops ∞ potential alloys potatoes autoclaving stream functions (fluids) plants (botany) ∞ theories cermets potatoes combustion synthesis vegetables ∞ potentiometers comminution (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)
Instruments for measuring differences potatoes compacting RT ∞ food composite materials electrodeposition liquid phase sintering in electric potential by balancing the unknown (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN low density materials voltage against a variable known voltage. If the metal matrix composites balancing is accomplished automatically, the metal particles Coulomb potential instrument is called a self-balancing potentiommetal powder electric potential eter. A variable electric resistor. ∞ metallurgy geopotential potentiometers (instruments) RT ionization potentials mixed crystals potentiometers (resistors) Klein-Dunham potential porous materials myoelectric potentials preforms potentiometers (instruments) nucleon potential measuring instruments
. potentiometers (instruments) reaction bonding GS open circuit voltage sintered aluminum powder plasma potentials sintering bolometers vacuum melting potential energy electric potential potential fields electrical measurement powdered aluminum potential theory electrometers GS particles Yukawa potential ∞ potentiometers . metal particles thermocouple pyrometers . . metal powder potential energy thermocouples Energy possessed by a body by virtue . . . powdered aluminum voltmeters of its position in a gravity field in contrast with . . . . sintered aluminum powder kinetic energy, that possessed by virtue of its . powder (particles) potentiometers (resistors) . . metal powder motion. GS attenuators potential energy GS ... powdered aluminum . resistors . electric potential . sintered aluminum powder . . potentiometers (resistors) . . bioelectric potential aluminum RT ∞ potentiometers contact potentials lithium aluminum hydrides Coulomb potential potentiometric analysis powdered metals high voltages potentiometry metal powder USE Lienard potential GS chemical tests low voltage . chemical analysis ∞ power open circuit voltage . . potentiometric analysis (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . photovoltages . . quantum wells potentiometry LISTED BELOW)
electric generators . photoexcitation USE potentiometric analysis spike potentials fluid power . threshold voltage flux (rate) Potez aircraft . geopotential height flux density RT ∞ aircraft . ionization potentials horsepower . nuclear potential Potomac River Valley (MD-VA-WV) resolution . plasma potentials GS vallevs thrust chemical energy Potomac River Valley (MD-VA-WV) electric energy storage power amplifiers District of Columbia embedded atom method Marvland amplifiers ∞ energy power amplifiers Virginia West Virginia energy storage Froude number amplidynes cyclotron resonance devices geopotential potting compounds feedback amplifiers internal energy  $RT \, \infty \, compounds$ magnetic amplifiers kinetic energy encapsulating parametric amplifiers Lagrangian function push-pull amplifiers insulation Morse potential transistor amplifiers pouring traveling wave amplifiers ∞ potential casting RT castings potential fields power beaming (added November 1989) RT field theory (physics) powder (particles) ∞ potential beamed power DEF An aggregate of discrete particles that are usually within the size range 1 to 1,000 mm. power beaming potential flow laser power beaming irrotational flow GS particles . microwave power beaming GS fluid flow . satellite power transmission . powder (particles) potential flow . . fines energy conversion . . metal powder laser propulsion equipotentials RT Cartan space . . . platinum black microwave transmission

### **Poynting-Robertson effect**

∞ power transmission . solar power satellites spacecraft power supplies

#### power conditioning

UF power processing systems
RT ∞ conditioning
electric current

electric generators electric potential

energy conversion

energy conversion efficiency output

satellite solar energy conversion satellite solar power stations

#### power converters

RT ∞ converters torque converters

power density (electromagnetic) USE radiant flux density

#### power efficiency

GS efficiency

# power efficiency

combustion efficiency compressor efficiency exergy horsepower nozzle efficiency

power factor controllers ∞ power loss

propeller efficiency propulsion system performance propulsive efficiency

thermodynamic efficiency transmission efficiency

#### power factor controllers

A solid state electronic device that reduces excess energy waste in AC induction motors by providing only the amount of voltage required to satisfy a given load.

ĠS controllers

# . power factor controllers

current regulators electric motors energy conservation energy conversion efficiency induction motors power efficiency voltage regulators

The ratio of the power that a transducer delivers to a specified load, under specified operating conditions, to the power absorbed by its input circuit. Of an antenna, in a given direction, 4 pi times the ratio of the radiation intensity in that direction to the total power delivered to the antenna.

amplification GS

. power gain CATT devices high gain open circuit voltage

power generators

USE electric generators

#### power law bodies

(added May 1995) GS symmetrical bodies

axisymmetric bodies . power law bodies

bodies of revolution

. power law bodies

RT blunt bodies slender bodies

# power limited spacecraft

RT ∞ spacecraft

### power limiters

attenuators clamping circuits clipper circuits

limiter circuits

#### power lines

transmission lines GS power lines

bus conductors ∞ cables

coaxial cables

electric power transmission

electric wire submarine cables

superconducting power transmission underground transmission lines

#### ∞ power loss

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN LISTED BELOW) energy dissipation

power efficiency

#### power modules (STS)

DEF Modules for providing power for payloads for STS and mission dependent equip-

GS modules

#### power modules (STS)

orbital maneuvering vehicles payload delivery (STS) solar arrays space transportation system

spacecraft power supplies

#### ∞ power plants

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) cogeneration SN

RT

electric power plants engines

Enrico Fermi atomic power plant geothermal energy utilization Hallam Nuclear Power Facility hydroelectric power stations hydroelectricity ML-1 nuclear power plant

solar sea power plants

solar thermal electric power plants

power processing systems

USF power conditioning

# power reactors

RT nuclear power reactors ∞ reactors saturable reactors

#### power series

GS analysis (mathematics)

. calculus

. . series (mathematics)

... power series
... Taylor series
... MacLaurin series

. real variables

. . series (mathematics)

... power series

. . . . Taylor series

. MacLaurin series

RT analytic functions Bessel functions

#### power spectra

GS spectra

# power spectra

. cepstra RT acoustics cepstral analysis energy spectra flux density loudness

maximum entropy method

### ∞ power supplies

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) aircraft engines

aircraft power supplies auxiliary power sources electric batteries electric generators

electric power supplies electron sources energy requirements heat sources lead acid batteries line current lithium sulfur batteries nuclear auxiliary power units plasma power sources propellants rectifiers solar generators spacecraft power supplies voltage converters (AC to AC) voltage converters (DC to DC)

#### power supply circuits

GS circuits

#### . power supply circuits

current regulators rectifiers transformers voltage converters (DC to DC) voltage regulators

#### ∞ power transmission

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

bus conductors electric outlets

electric power transmission electrical engineering

electrification hydroelectric power stations

mechanical drives power beaming

windmills (windpowered machines)

power transmission (lasers) USE laser power beaming

power transmission (microwave) USE microwave power beaming

# powered lift aircraft

RT ∞ aircraft

externally blown flaps short takeoff aircraft STOVL aircraft vertical takeoff aircraft

# powered models

(LIMITED TO TEST FACILITIES) Models that can be tested in complete force equilibrium, including propulsion.

models GS

. wind tunnel models

powered models

aircraft models dynamic models

# Poynting theorem GS theorems

. Poynting theorem

RT ∞ electric power electromagnetic radiation energy transfer Maxwell equation vector analysis

#### Poynting-Robertson effect

DEF The gradual decrease in orbital velocity of a small particle such as a micrometeorite in orbit about the sun due to the absorption and remission of radiant energy by the particle.

RT ∞ effects micrometeoroids orbital mechanics radiation effects zodiacal dust

zodiacal light praseodymium reaction products PPI (position indicators) praseodymium isotopes ∞ precipitation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERM LISTED BELOW) USE plan position indicators praseodymium 144 chemical elements PPM (modulation) . nuclides drop size USE pulse position modulation . . isotopes electron precipitation ... praseodymium isotopes falling hydrometallurgy PPT (rocket engines) . rare earth elements (added April 2001) . . praseodymium materials recovery pulsed plasma thrusters USE ... praseodymium isotopes particle precipitation precipitation (chemistry) precipitation (meteorology) metals . rare earth elements USE polypyrroles . . praseodymium proton precipitation . . . praseodymium isotopes practices precipitation (chemistry) USE procedures preamplifiers DEF The separation of a new phase from DEF Amplifiers, the primary function of solid or liquid solution, usually with changing Praesepe star clusters which is to raise the output of a low level source conditions of temperature or pressure or both. GS celestial bodies to an intermediate level so that the signal may agglomeration . star clusters be further processed without appreciable degracementation . . open clusters dation in the signal-to-noise ratio. In radar amplifiers separated from the remainder of the ∞ chemistry . . Praesepe star clusters coagulation . stars receiver and located so as to provide the shortcolloiding . Praesepe star clusters est possible input circuit path from the antenna concentrating RT ∞ clusters so as to avoid deterioration of the signal-tocrystallization noise ratio. Used for preselectors. deposition praetersonic devices UF preselectors dissolving microwave frequencies GS amplifiers filtration piezoelectric transducers preamplifiers flocculating thin films RT intermediate frequency amplifiers hydrometallurgy ultrahigh frequencies low noise materials recovery mixing circuits Ostwald ripening prairies postamplifiers precipitates grasslands USE signal detection ∞ precipitation signal detectors precipitators Prandtl number signal reception ∞ saturation DEF A dimensionless number representing transistor amplifiers saturation (chemistry) ∞ separation the ratio of momentum transport to heat transvoltage amplifiers port in a flow. (After Ludwig Prantl, 1875-1953, settling German scientist). preburners solubility GS dimensionless numbers GS pressure vessels supersaturation . Prandtl number preburners unsaturation (chemistry) pumps Prandtl number turbine pumps forced convection precipitation (meteorology) Grashof number DEF The precipitation of water from the Precambrian period atmosphere in the form of hail, mist, rain, sleet, heat transfer Baltic Shield (Europe) inviscid flow and snow. Deposits of dew, fog, and frost are Cambrian Period momentum transfer excluded. Canadian Shield Nusselt number GS precipitation (meteorology) geology paleontology Peclet number . graupel Reynolds number . hail Paleozoic Era Schmidt number . rain thermodynamic properties . . acid rain precautions viscous flow . snow USE accident prevention snow cover Alpine meteorology anvil clouds Prandtl-Meyer expansion precession expansion GS Change in the direction of the axis of Prandtl-Meyer expansion atmospheric moisture CALIPSO (Pathfinder satellite) rotation of a spinning body, as a gyro, when Blasius equation acted upon by a torque. Falkner-Skan equation cap clouds GS gyration flow deflection cirrocumulus clouds precession laminar flow cirrostratus clouds . . Larmor precession method of characteristics climatology . . proton precession Newton pressure law cloud physics . quenching (atomic physics) supersonic flow cloud seeding RT coning motion two dimensional flow clouds (meteorology) Earth orientation CloudSat gyroscopes praseodymium cumulonimbus clouds gyroscopic stability chemical elements cyclones Larmor radius . rare earth elements dew libration . . praseodymium drainage patterns muon spin rotation . . . praseodymium isotopes drought nutation. metals flood damage polar wandering (geology) . rare earth elements flood predictions retrograde orbits . . praseodymium floods rotation . . praseodymium isotopes fog vortex precession didymium. fog dispersal praseodymium compounds hailstorms precious metals humidity USE noble metals praseodymium 144 hydrological cycle hydrology hydrology models hydrometeorology praseodymium isotopes precipitates

(EXCLUDES METEOROLOGICAL PRECIPITATES)

hydrometeors

meteorology

mist

International Hydrological Decade

meteorological parameters

SN

alloys

grain boundaries

precipitation (chemistry)

precipitation hardening

microstructure

praseodymium compounds (added August 1990)

∞ metal compounds

rare earth compounds

. praseodymium compounds RT ∞ chemical compounds

|          |   | a a ha dula a                               |          | hindonatina                               |
|----------|---|---|----------|---|
|          | monsoons                                    | schedules                                   |          | . hindcasting                             |
|          | nephanalysis                                | sensitivity                                 | RT       | catastrophe theory                        |
|          | nimbostratus clouds                         | ∞ sharpness                                 |          | confidence limits                         |
| 0        | ∘ precipitation                             | tolerances (mechanics)                      |          | contingency                               |
|          | precipitation measurement                   | truncation errors                           |          | estimates                                 |
|          | rainmaking                                  | validity                                    |          | maximum likelihood estimates              |
|          | rainstorms                                  | ,   |          | mission planning                          |
| ~        | saturation                                  | precision guided projectiles                |          | prediction recording                      |
| ~        |   | DEF Missiles guided by precise laser radia- |          |   |
|          | snowstorms                                  | 0 71  | c        | ∞ projection                              |
|          | storm damage                                | tion.                                       |          | risk                                      |
|          | storm enhancement                           | GS missiles                                 |          | schedules                                 |
|          | storm suppression                           | . precision guided projectiles              |          |   |
|          | storms                                      | projectiles                                 | predict  | or-corrector methods                      |
|          | storms (meteorology)                        | precision guided projectiles                | GS       | analysis (mathematics)                    |
|          | water                                       | weapons                                     |          | . numerical analysis                      |
|          | water resources                             | . guns (ordnance)                           |          | approximation                             |
|          |   |   |          | predictor-corrector methods               |
|          | watersheds                                  | artillery                                   |          | •   |
|          | weather                                     | precision guided projectiles                |          | iteration                                 |
|          | weather forecasting                         | . warheads                                  |          | predictor-corrector methods               |
|          |   | precision guided projectiles                | RT       | differential equations                    |
| precipit | tation hardening                            | RT ∞ bombs                                  |          | iterative solution                        |
| UF       | age hardening                               | terminal ballistics                         |          |   |
|          | dispersion precipitation hardening          |   | predicto | ors                                       |
|          | strain aging                                | preconditioning                             | USE      | predictions                               |
| GS       |   |   | 002      | production                                |
| GS       | hardening (materials)                       | GS preparation                              | preemp   | nting                                     |
|          | precipitation hardening                     | preconditioning                             |          |   |
|          | maraging                                    | RT ∞ conditioning                           | KI       | claiming                                  |
| RT       | cold hardening                              |   |          | prevention                                |
|          | eutectic composites                         | precooling                                  |          |   |
|          | heat treatment                              | GS cooling                                  | prefirin | ig tests                                  |
|          |   | . precooling                                | GS       | engine tests                              |
|          | precipitates                                |   |          | . prefiring tests                         |
|          | solid solutions                             | RT regenerative cooling                     | RT       | captive tests                             |
|          | strain hardening                            |   | KI       |   |
|          | supersaturation                             | predators                                   |          | checkout                                  |
|          | time temperature parameter                  | RT animals                                  |          | ground tests                              |
|          | time temperature parameter                  | ecology                                     |          | preflight analysis                        |
|          | letien messurement                          | •   |          | prelaunch tests                           |
|          | tation measurement                          | ecosystems                                  |          | rocket engine design                      |
|          | ed June 2003)                               | populations                                 |          |   |
| DEF      | Techniques and processes used to            |   |          | space vehicle checkout program            |
| measure  | e the amount and type of precipitation.     | predicate calculus                          |          | static tests                              |
| RT ∘     | ∘ measurement                               | (added September 1993)                      |          | test firing                               |
|          | meteorological instruments                  | GS mathematical logic                       |          | test stands                               |
|          |   | . predicate calculus                        | c        | ∞ tests                                   |
|          | meteorological radar                        |   |          |   |
|          | meteorological satellites                   | 3   | nreflial | nt analysis                               |
|          | precipitation (meteorology)                 | ∞ logic                                     |          |   |
|          | rain  | theorem proving                             | KI       | ∞ analyzing                               |
|          | rain gages                                  |   |          | prefiring tests                           |
|          | snow  | predicate logic                             |          | systems analysis                          |
|          | SHOW  | (added September 1993)                      | c        | ∞ tests                                   |
|          | and the second second                       |   |          | trajectory analysis                       |
| precipit | tation particle measurement                 | RT artificial intelligence                  |          | , , ,                                     |
| GS       | size determination                          | linguistics                                 |          | weight analysis                           |
|          | . precipitation particle                    | ∞ logic                                     |          | 4   |
|          | measurement                                 | programming languages                       |          | nt operations                             |
| RT       | drop size                                   | semantics                                   | GS       | preflight operations                      |
| 1 1 1    |   | oomanii oo                                  |          | . aircraft runup                          |
|          | meteorological radar                        | distina sushinin tashuisuss                 |          | . countdown                               |
|          | particle size distribution                  | prediction analysis techniques              | RT       | crew procedures (preflight)               |
|          | particles                                   | GS scheduling                               | 17.1     | flight operations                         |
|          |   | . prediction analysis techniques            |          | 0 1                                       |
| precipit | ators                                       | RT ∞ analyzing                              |          | ground tests                              |
| GS       | separators                                  | parameter identification                    | c        | ∞ operations                              |
| 00       | . precipitators                             | performance prediction                      |          | prelaunch tests                           |
|          |   | system identification                       |          | refueling                                 |
|          | electrostatic precipitators                 | •   |          | ŭ   |
| RT       | air filters                                 | trend analysis                              | prefocu  | ısina                                     |
|          | concentrators                               |   | •        | focusing                                  |
|          | dust collectors                             | prediction recording                        | 63       |   |
|          | precipitation (chemistry)                   | GS recording                                |          | prefocusing                               |
|          | thickeners (equipment)                      | prediction recording                        | RI a     | ∞ optics                                  |
|          | tilickeriers (equipment)                    | RT predictions                              |          |   |
|          |   | N1 predictions                              | preforn  | ns  |
| precisio |   |   | RT       | blanks                                    |
|          | The quality of being exactly or sharply     | predictions                                 |          | composite materials                       |
| defined  | or stated. A measure of the precision of    | UF predictors                               |          | molds                                     |
| a repres | sentation is the number of distinguish-     | GS predictions                              |          |   |
|          | ernatives from which it was selected,       | flood predictions                           |          | powder metallurgy                         |
|          | s sometimes indicated by the number of      | . impact prediction                         |          | resin film infusion                       |
|          |   |   |          | resin transfer molding                    |
|          | ant digits it contains. Used for exactness. | . linear prediction                         |          |   |
| UF       | exactness                                   | . noise prediction                          | pregna   | ncy                                       |
| RT       | accuracy                                    | noise prediction (aircraft)                 |          | birth                                     |
|          | allowances                                  | . forecasting                               |          |   |
|          | confidence limits                           | . performance prediction                    | preheat  | ters                                      |
|          | consistency                                 | . Roshko prediction                         | ,        |   |
|          |   |   | USE      | heating equipment                         |
|          | definition                                  | technological forecasting                   |          |   |
|          | dynamic characteristics                     | Delphi method (forecasting)                 | preheat  | ting                                      |
|          | errors                                      | pattern method (forecasting)                | USE      | heating                                   |
|          | geometric dilution of precision             | probe method (forecasting)                  |          | =   |
|          | high resolution                             | profile method (forecasting)                | nre-lm   | orian period                              |
|          |   |   |          |   |
|          | hysteresis                                  | weather forecasting                         | DEF      | 0 1                                       |
|          | quality                                     | long range weather forecasting              |          | d for displaying (on maps) the geological |
|          | quality control                             | nowcasting                                  | ages of  | major features on the moon.               |
|          | reliability                                 | numerical weather forecasting               |          | lunar composition                         |
|          | resolution                                  | statistical weather forecasting             |          | lunar craters                             |
|          |   |   |          |   |

### preimpregnation

lunar evolution ignition reports lunar geology jet mixing flow Presidential reports lunar rocks premixed flames congressional reports spraying papers preimpregnation records filament winding preparation pultrusion ĠS preparation presintering . preconditioning USE sintering . pretreatment prejudices RT economics . prestressing presses irrationality . prewhirling GS presses rams (presses) management . prewhitening compacting ∞ properties assembling hammers psychology premature operation machine tools ∞ priming platens prelaunch problems RT countdown prepolymers DEF Poly ∞ pressing ∞ problems Polymers of degrees of polymerization pressing (forming) reliability between that of the monomer or monomers, and punches spacecraft reliability tools the final polymer. GS prepolymers prelaunch summaries ∞ pressing dimers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Summaries prior to launch of the . trimers preparations and parameters of the mission. RT monomers GS summaries ∞ polymers cold pressing . prelaunch summaries compacting prepregs
DEF The reinforcing materials containing or mission planning compressing postlaunch reports hot isostatic pressing spacecraft launching combined with the full complement or resin hot pressing before molding operations in the production of platens prelaunch tests composite materials. presses GS ground tests composite materials pressing (forming) . prelaunch tests epoxy resins . static firing functionally gradient materials pressing (forming) captive tests laminates GS forming techniques cold flow tests . pressing (forming)
. . blanking (cutting) resin matrix composites countdown crew procedures (preflight) preprocessing . . coining engine tests RT data processing . . hot pressing launching data reduction . . stamping missile tests image processing . . hot isostatic pressing prefiring tests RT cold pressing preflight operations presbyopia compacting spacecraft maintenance RT vision extruding static tests forging test firing preselectors metal working test stands USE preamplifiers molds ∞ tests presses presentation ∞ pressing preloading information RT pultrusion USE prestressing sizing (shaping) preservatives upsetting pre-main sequence stars RT additives DEF Stars in which nuclear reactions that ∞ agents pressoreceptor reflexes take place in its core have not yet occurred. anticoagulants (added March 2001) celestial bodies antioxidants GS USE baroreflexes neutralizers . stars . . protostars penetrants pressoreceptors ... pre-main sequence stars preserving (added March 2001) . . . T Tauri stars retardants USE baroreceptors RT main sequence stars stabilizers (agents) star formation stellar evolution preserving USE vasoconstrictor drugs GS food processing premature operation preserving pressure DEF Force or load per unit area. Used for RT ∞ operations biopaks preparation ∞ containers surface pressure. corrosion prevention UF surface pressure premixed flames coverings GS pressure flames curing . atmospheric pressure . premixed flames degradation . base pressure carburetors dehydrated food . blood pressure flame propagation ∞ food . . diastolic pressure gas mixtures freeze drying . . hypertension mixing freezing hypotension premixing frozen foods lower body negative pressure reacting flow impregnating systolic pressure . critical pressure turbulent combustion irradiation turbulent flames packaging densification preservatives . differential pressure premixing

DEF The mixing of ingredients prior to a radiation effects dynamic pressure . fluid pressure refrigerating specified action (mixing of fuel and air prior to ∞ storage . water pressure ignition in combustion, for example). weatherproofing . gas pressure mixing geopressure GS . premixing Presidential reports . high pressure fuel-air ratio . inlet pressure RT DEF Formal reports originated by the Presiinternal pressure fuels dent or his office. . intracranial pressure gas mixtures GS documents . intraocular pressure . Presidential reports homogenizing

|  | . isostatic pressure   |                                      | stress (physiology)   |                     | two phase flow   |
|--|--|--------------------------------------|---|---------------------|--|
|  | . low pressure   |                                      |   |                     |  |
|  | high altitude pressure   | pressu                               | re broadening   | •                   | re effects   |
|  | . middle ear pressure  |                                      | line spectra  | RT                  | beta factor  |
|  | . overpressure   |                                      | pressure  |                     | compressibility effects  |
|  | . partial pressure   |                                      | spectroscopy  | c                   | ∞ effects  |
|  | oxygen tension   |                                      | 1 17  |                     | jet blast effects  |
|  | hypoxemia  | nressur                              | re cabins   |                     | loads (forces)   |
|  | . plasma pressure  |                                      | pressurized cabins  |                     | nonisothermal processes  |
|  | . radiation pressure   | OOL                                  | pressurized cabins  |                     | pressure   |
|  | electron pressure  |                                      | and a street  |                     | suction  |
|  | lumens   | •                                    | re chambers   |                     | temperature effects  |
|  |  | GS                                   | compartments  |                     | temperature inversions   |
|  | luminous intensity   |                                      | . test chambers   |                     | transition pressure  |
|  | illuminance<br>luminance   |                                      | pressure chambers   |                     | vacuum effects   |
|  |  |                                      | hyperbaric chambers   |                     | wind effects   |
|  | sound pressure   | DT                                   | vacuum chambers   | pressur             | a fields   |
|  | . stagnation pressure  | RT                                   | air locks   | USE                 | pressure distribution  |
|  | . static pressure  | c                                    | ∞ chambers  | USL                 | pressure distribution  |
|  | hydrostatic pressure   |                                      | enclosures  | nressii             | re gages   |
|  | . supercritical pressures  |                                      | pressure  | UF                  |  |
|  | . thrust chamber pressure  |                                      | pressurized cabins  | GS                  | measuring instruments  |
|  | . transient pressures  |                                      | wind tunnel drives  | 00                  | . pressure gages   |
|  | . transition pressure  |                                      |   |                     | barometers   |
|  | . vacuum   |                                      | re dependence   |                     | manometers   |
|  | high vacuum  | DEF                                  | Study of how a rate constant changes  |                     | osmometers   |
|  | low vacuum   | with pre                             |   |                     | piezoelectric gages  |
|  | ultrahigh vacuum   | RT                                   | burning rate  |                     | piezometers  |
|  | . vapor pressure   |                                      | hydrostatic pressure  |                     | vacuum gages   |
|  | . wall pressure  |                                      | reaction kinetics   |                     | ionization gages   |
|  | . wind pressure  |                                      |   |                     | alphatrons   |
| RT   | baroreceptors  | pressu                               | re distribution   |                     | Bayard-Alpert ionization gages   |
|  | blast loads  | UF                                   | pressure fields   |                     | Penning gages  |
|  | center of pressure   | GS                                   | distribution (property)   |                     | Philips ionization gages   |
|  | compressing  |                                      | pressure distribution   |                     | Knudsen gages  |
|  | ear pressure test  | RT                                   | aerodynamic coefficients  |                     | Mcleod gages   |
|  | elastic waves  |                                      | aerodynamic loads   |                     | Pirani gages   |
|  | environments   |                                      | aerodynamic stability   | RT o                | ∞ bombs  |
| ۰  | force  |                                      | center of pressure  |                     | Bourdon tubes  |
|  | fuel tank pressurization   |                                      | differential pressure   |                     | flowmeters   |
|  | Gibbs-Helmholtz equations  | c                                    | ∞ distribution  |                     | hypsometers  |
|  | head (fluid mechanics)   |                                      | field theory (physics)  |                     | pressure   |
|  | high pressure oxygen   |                                      | influence coefficient   |                     | shock measuring instruments  |
|  |  |                                      |   |                     |  |
|  | impact   |                                      | internal pressure   |                     |  |
|  | isobars (pressure)   |                                      | internal pressure isobars (pressure)  |                     | strain gage accelerometers   |
|  | isobars (pressure)<br>loads (forces)   |                                      |   |                     | strain gage accelerometers strain gage balances  |
|  | isobars (pressure)<br>loads (forces)<br>Newton pressure law  |                                      | isobars (pressure)  |                     | strain gage accelerometers<br>strain gage balances<br>strain gages   |
|  | isobars (pressure)<br>loads (forces)<br>Newton pressure law<br>osmosis   |                                      | isobars (pressure)<br>lift  |                     | strain gage accelerometers strain gage balances  |
|  | isobars (pressure)<br>loads (forces)<br>Newton pressure law<br>osmosis<br>pressure breathing   |                                      | isobars (pressure)<br>lift<br>loading moments   | pressu              | strain gage accelerometers<br>strain gage balances<br>strain gages<br>weight indicators  |
|  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening   |                                      | isobars (pressure)<br>lift<br>loading moments<br>loads (forces)   | <b>pressu</b><br>GS | strain gage accelerometers<br>strain gage balances<br>strain gages   |
|  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers   |                                      | isobars (pressure) lift loading moments loads (forces) manometers   |                     | strain gage accelerometers<br>strain gage balances<br>strain gages<br>weight indicators<br>re gradients  |
|  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution   |                                      | isobars (pressure) lift loading moments loads (forces) manometers mass distribution   |                     | strain gage accelerometers<br>strain gage balances<br>strain gages<br>weight indicators<br>re gradients<br>gradients   |
|  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag   |                                      | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients pressure gradients  |
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| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure effects  | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure  | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs   |
| 0  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure diag pressure drop pressure effects pressure gages   | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure ∞ pressure drop shock wave profiles spanwise blowing   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness  |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure broadening pressure chambers pressure distribution pressure drag pressure drag pressure effects pressure gages pressure gradients   | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow  |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure effects pressure gages pressure gradients pressure heads   | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure  |
| o  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure effects pressure gages pressure gradients pressure heads pressure ice  | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries   |
| ٥  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure ice pressure ice pressure measurement  | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure  | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure  |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure effects pressure gages pressure gradients pressure ice pressure measurement pressure modulator radiometers   | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics  |
| o  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure effects pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure oscillations   | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure ∞ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics  |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses  | c                                    | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure  |
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| ٥  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure lice pressure ice pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure ratio pressure recorders   |                                      | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure ∞ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow  |
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| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure effects pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recovery pressure recovery pressure reduction pressure sensors  | pressu                               | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics  | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces   |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recorders pressure recovery pressure reduction pressure sensors pressure sunts   | pressu                               | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Newton pressure law pressure  ∞ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics . drag  | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid flow liquid interfaces liquid-vapor interfaces multiphase flow  |
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| ٥  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure ice pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recorders pressure recovery pressure sensors pressure suits pressure wessel design pressure vessels  | pressu                               | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution vertical distribution wall pressure  re drag dynamic characteristics drag pressure drag supersonic drag   | GS                  | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow pipe flow  |
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| •  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure measurement pressure oscillations pressure ratio pressure recorders pressure recovery pressure reduction pressure sensors pressure sensors pressure vessel pressure vessels pressure welding pressurized cabins  | <b>pressu</b><br>GS                  | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics drag pressure drag drag uniterial pressure  re wave drag uniterial uniter | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure   |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gages pressure jeadients pressure measurement pressure measurement pressure oscillations pressure ratio pressure recorders pressure recovery pressure sensors pressure suits pressure sensors pressure vessel design pressure vessure welding pressure welding pressurized cabins pressurized water reactors  | <b>pressu</b><br>GS                  | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Newton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution vertical distribution wall pressure  re drag dynamic characteristics . drag . pressure drag supersonic drag wave drag interference drag aerodynamic drag   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure drop   |
| ۰  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recorders pressure recovery pressure seinsors pressure suits pressure welding pressure vessels pressure vessels pressure vessurized water reactors pressurized water reactors  | <b>pressu</b><br>GS                  | isobars (pressure) lift loading moments loads (forces) manometers mass distribution moment distribution Newton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics drag pressure drag supersonic drag in interference drag aerodynamic drag friction drag friction drag   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure pressure drop Rankine-Hugoniot relation  |
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| •  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recorders pressure recovery pressure suits pressure vessel design pressure vessels pressure welding pressure welding pressure welding pressurized dabirs pressure welding pressurizing temperature inversions   | pressu<br>GS<br>RT<br>∞ pressu       | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Newton pressure law pressure  ⇒ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics drag pressure drag upersonic  | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid flow liquid flow liquid refaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure pressure drop Rankine-Hugoniot relation steady flow steam flow subcritical flow  |
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|  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure defects pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses pressure retion pressure recorders pressure recovery pressure reduction pressure sensors pressure vessel design pressure vessels pressurized cabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  | pressu<br>GS<br>RT<br>∞ pressu       | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution vertical distribution wall pressure  re drag dynamic characteristics . drag pressure drag supersonic drag interference drag aerodynamic drag friction drag pressure  lire drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure  Perssure drop Rankine-Hugoniot relation steady flow subcritical flow suction supercritical flow  |
| pressui                                    | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recorders pressure recovery pressure reduction pressure sensors pressure vessel design pressure vessels pressurized cabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution velocity distribution wall pressure  re drag dynamic characteristics . drag pressure drag supersonic drag interference drag aerodynamic drag friction drag pressure  re drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) fluid power friction   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure drop Rankine-Hugoniot relation steady flow steam flow subcritical flow suction supercritical flow uniform flow   |
| <b>pressu</b> i<br>DEF                     | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure measurement pressure modulator radiometers pressure oscillations pressure ratio pressure recorders pressure recovery pressure selses pressure selses pressure recovery pressure vessel design pressure vessels pressure welding pressurized cabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  ⇒ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics drag pressure drag wave drag wave drag wave drag driction drag pressure  re drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow  | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid flow liquid flow liquid refaces multiphase flow orifice flow pipe flow potential gradients pressure pressure pressure drop Rankine-Hugoniot relation steady flow subcritical flow suction supercritical flow uniform flow unsteady flow unsteady flow   |
| pressui<br>DEF<br>mixture                  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure oscillations pressure recorders pressure recovery pressure reduction pressure sensors pressure selse pressure vessel design pressure vessels pressure welding pressurized cabins pressurized cabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  The breathing The breathing The pressure higher than the                                    | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Newton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics . drag pressure drag supersonic drag wave drag interference drag aerodynamic drag friction drag pressure  life drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow head flow   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure drop Rankine-Hugoniot relation steady flow steam flow subcritical flow suction supercritical flow uniform flow   |
| pressur<br>DEF<br>mixture<br>surroun       | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure effects pressure gages pressure gradients pressure measurement pressure measurement pressure oscillations pressure recorders pressure recorders pressure reduction pressure sensors pressure vessel design pressure vessels pressure vessels pressure vessels pressurized dabins pressurized water reactors pressurized water reactors pressurized water sensors pressurized water seaches pressurized water reactors pressurized water seaches weight (mass)  The breathing The breathing The pressure.         | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Newton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution vertical distribution wall pressure  re drag dynamic characteristics . drag pressure drag supersonic drag wave drag interference drag aerodynamic drag friction drag pressure  life drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow head flow inlet flow  | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure  >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>  |
| pressui<br>DEF<br>mixture                  | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure heads pressure measurement pressure modulator radiometers pressure pulses pressure ratio pressure recorders pressure recovery pressure seinsors pressure suits pressure vessel design pressure vessels pressure vessels pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  respiration  | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution vertical distribution wall pressure  re drag dynamic characteristics . drag pressure drag supersonic drag interference drag aerodynamic drag friction drag pressure  life drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow head flow inlet flow pressure   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure drop Rankine-Hugoniot relation steady flow subcritical flow suction supercritical flow uniform flow unsteady flow Venturi tubes  re heads  |
| pressur<br>DEF<br>mixture<br>surroun<br>GS | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure measurement pressure modulator radiometers pressure oscillations pressure ratio pressure recorders pressure recovery pressure recovery pressure vessel design pressure vessel design pressure welding pressurized dabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  re breathing The breathing of oxygen or a suitable of gases at a pressure higher than the ding pressure. respiration . pressure breathing | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  ⇒ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution velocity distribution wall pressure  re drag dynamic characteristics drag pressure drag in interference drag aerodynamic drag friction drag pressure  re drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow head flow inlet flow pressure pressure distribution  | RT RT               | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid flow liquid flow liquid flow potential gradients pressure pressure pressure drop Rankine-Hugoniot relation steady flow suction supercritical flow uniform flow unsteady flow Venturi tubes  re heads head (pressure)  |
| pressur<br>DEF<br>mixture<br>surroun       | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure distribution pressure drag pressure drop pressure gages pressure gages pressure heads pressure measurement pressure modulator radiometers pressure ratio pressure recovery pressure recovery pressure sensors pressure suits pressure vessel design pressure welding pressure welding pressurized cabins pressurized cabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  e breathing The breathing The breathing emergency breathing techniques   | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution vertical distribution wall pressure  re drag dynamic characteristics . drag pressure drag supersonic drag interference drag aerodynamic drag friction drag pressure  re drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED→CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow head flow inlet flow pressure gradients   | GS<br>RT            | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid-liquid interfaces liquid-vapor interfaces multiphase flow orifice flow pipe flow potential gradients pressure pressure pressure drop Rankine-Hugoniot relation steady flow subcritical flow suction supercritical flow uniform flow unsteady flow Venturi tubes  re heads head (pressure) fluid flow frequence of the pressure fluid flow fluid flow flow fluid flow flow fluid flow fluid flow fluid flow fluid flow fluid flow fluid flow fluid flow fluid flow   |
| pressur<br>DEF<br>mixture<br>surroun<br>GS | isobars (pressure) loads (forces) Newton pressure law osmosis pressure breathing pressure broadening pressure chambers pressure distribution pressure drag pressure drop pressure gages pressure gradients pressure measurement pressure modulator radiometers pressure oscillations pressure ratio pressure recorders pressure recovery pressure recovery pressure vessel design pressure vessel design pressure welding pressurized dabins pressurized water reactors pressurizing temperature inversions vacuum chambers weight (mass)  re breathing The breathing of oxygen or a suitable of gases at a pressure higher than the ding pressure. respiration . pressure breathing | pressu<br>GS<br>RT<br>∞ pressu<br>SN | isobars (pressure) lift loading moments loads (forces) manometers mass distribution Mewton pressure law pressure  ⇒ pressure drop shock wave profiles spanwise blowing static loads structural design criteria Theodorsen transformation thrust distribution velocity distribution velocity distribution wall pressure  re drag dynamic characteristics drag pressure drag in interference drag aerodynamic drag friction drag pressure  re drop (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) fluid power friction gas flow head flow inlet flow pressure pressure distribution  | RT RT               | strain gage accelerometers strain gage balances strain gages weight indicators  re gradients gradients . pressure gradients atmospheric pressure bathythermographs boundary layer thickness critical flow differential pressure fluid boundaries fluid flow friction factor geopressure hydrodynamics hydrodynamics hydrostatics inlet pressure isobars (pressure) Knudsen flow liquid flow liquid flow liquid flow liquid flow potential gradients pressure pressure pressure drop Rankine-Hugoniot relation steady flow suction supercritical flow uniform flow unsteady flow Venturi tubes  re heads head (pressure)  |

RT center of pressure pressure pulses pressure measurement elevation blast loads ∞ hydraulics flame propagation hydrodynamics pressure pressure sensors hydrostatic pressure UF pressure probes shock waves pressure transducers hydrostatics liquid flow pressure ratio transducers pressure . pressure sensors The relationship of a force to the de-. Bourdon tubes formation of a system whose deformation varies pressure ice electroacoustic waves in some proportion to the force. piezoelectric gages pressure ridges GS ratios GS ice pressure pressure ratio . sea ice quartz transducers RT fuel-air ratio . pressure ice ∞ rakes lift drag ratio cold weather shock wave generators mass ratios freezing transient pressures payload mass ratio ice formation transient response low temperature ultrasonic wave transducers propellant mass ratio ocean currents stress ratio pressure thrust-weight ratio pressure suits tides wind (meteorology) pressure recorders winter GS recording instruments . pressure recorders pressure measurement RT pressure tonometry GS mechanical measurement benefit of pressurized cabins. GS clothing pressure measurement pressure recovery  $RT \, \infty \, diffusers$ . protective clothing barometers explosive decompression Bourdon tubes . . pressure suits differential pressure flow measurement fluid amplifiers . . . space suits inlet pressure . . . . extravehicular mobility units pressure flowmeters . suits ∞ recovery ionization gages . . pressure suits Knudsen gages . . . space suits . extravehicular mobility units manometers pressure reduction Mcleod gages UF bleed-off flight clothing ∞ measurement decompression helmets inflatable structures noise meters deflating Philips ionization gages depressurization life support systems Pirani gages pressure reduction portable life support systems pitot tubes explosive decompression pressure pneumatic probes  $RT \, \infty \, bleeding$ safety devices compressing pressure pressure sensitive paints gas expansion vacuum inflating pressure switches vacuum gages pressure GS control equipment velocity ∞ pressure drop . pressure switches velocity measurement ∞ reduction switches Venturi tubes pressure switches weight indicators RT electric switches pressure regulators wind tunnel calibration GS control equipment wind tunnel tests . regulators pressure transducers . . automatic control valves pressure modulator radiometers USE pressure sensors ... pressure regulators DEF A cell containing a known quantity of a . automatic control valves pressure vessel design . pressure regulators GS structural design controllers pressure vessel design flow regulators  $RT \, \infty \, design$ fuel tank pressurization perforated shells oxygen regulators pressure pressurizing shells (structural forms) relief valves chopper blade.

gas is placed in the single optical path of the radiometer and subjected to cyclical pressure changes which alter the absorption lines in the infrared spectrum of the gas. A narrow band signal results from the different voltages at the detector at high and low cell pressures. A wideband signal is generated by physically chopping a percentage of the input beam with a rotating

GS measuring instruments

. radiation measuring instruments

. . actinometers

. . . radiometers

. . . . pressure modulator radiometers

RT infrared radiometers pressure

### pressure oscillations

GS oscillations

pressure oscillations

acoustic frequencies combustion stability flame propagation pressure ∞ pressure drop Southern Oscillation

pressure probes

USE pressure sensors

turbulent flow

# pressure pulses

GS pulses

# pressure ridges

USE pressure ice

# pressure sensitive paints

(added March 2001)

DEF Luminescent paints used for the nonintrusive optical measurement of static and transient pressure fields. These paints are typically organic luminophores or dyes dispersed in an oxygen permeable polymeric binder. The luminescence is induced by the excitation of the dye with an appropriate wavelength light. The emitted intensity or brightness of the paint is inversely proportional to the partial pressure of oxygen because the luminescence is quenched by oxygen.

UÉ PSP (paints) coatings GS

. paints . pressure sensitive paints

RT flow measurement flow visualization nonintrusive measurement optical measurement

DEF Garments designed to provide pressure upon the body so that the respiratory and circulatory functions may continue normally, or nearly so, under low pressure conditions, such as occur at high altitudes or in space without

### pressure vessels

GS pressure vessels

. preburners RT accumulators autoclaves bells boilers bulbs

burst tests containers

domes (structural forms) fuel tank pressurization

fuel tanks

hemisphere cylinder bodies isotensoid structures pressure propellant tanks

reactor materials shallow shell equations spherical tanks storage tanks

tanks (containers) vessels

wall pressure

|                 | wind tunnel walls   |          | prestressing                                      |           | dry cells  |
|-----------------|---|----------|---|-----------|--|
|                 | a wewe  |          | prevention  |           | magnesium cells  |
| pressure<br>USE | e waves<br>elastic waves                                  | ٥        | o priming   |           | nickel zinc batteries metal air batteries                    |
| 002             | olabilo waves   | pretwist | ing   |           | zinc-oxygen batteries  |
|                 | e welding   | USE      | prestressing                                      |           | sodium sulfur batteries                                      |
| GS              | welding   |          | twisting  |           | thermal batteries  |
|                 | . pressure welding cold welding                           | provon   | orization   | RT        | charge efficiency  |
|                 | . diffusion welding                                       |          | orization The phase transformations of liquids to |           | electrolytes   |
|                 | explosive welding   |          | prior to some physical or chemical reac-          |           | nonaqueous electrolytes storage batteries                    |
|                 | friction welding  | tion.    |   |           | wet cells  |
|                 | friction stir welding                                     | GS       | phase transformations                             |           |  |
| DT              | ultrasonic welding  |          | . vaporizing                                      | primary   | cosmic rays  |
| RT              | arc welding electric welding                              | RT       | prevaporization flashing (vaporizing)             | UF        | heavy cosmic ray primaries                                   |
|                 | flash welding   | KI       | gases   | GS        | extraterrestrial radiation                                   |
|                 | fusion welding  |          | vapor phases                                      |           | . primary cosmic rays solar cosmic rays                      |
|                 | gas welding   |          | vapors  |           | ionizing radiation   |
|                 | pressure  |          | volatility  |           | . cosmic rays  |
|                 | spot welds  | prevent  | tion  |           | primary cosmic rays  |
| pressur         | ized cabins   | GS       | prevention  |           | solar cosmic rays  |
| UF              | pressure cabins   |          | . accident prevention                             |           | particles . corpuscular radiation                            |
| GS              | compartments  |          | corrosion prevention                              |           | primary cosmic rays  |
| DT              | pressurized cabins  |          | . fire prevention                                 |           | solar cosmic rays  |
| RT              | aircraft compartments cabin atmospheres                   |          | . ice prevention . preventive maintenance         | RT        | cosmic ray albedo  |
| 00              | cabins  | RT       | blocking  |           | heavy nuclei   |
|                 | cockpits  | 131      | etiology  |           | secondary cosmic rays  |
|                 | emergency life sustaining systems                         | ۰        | ∘ inhibition                                      | primate   | 8  |
|                 | environmental control                                     |          | pollution   |           | animals  |
|                 | escape capsules   |          | preempting  |           | . vertebrates  |
|                 | explosive decompression<br>life support systems           |          | pretreatment protection                           |           | mammals  |
|                 | oxygen supply equipment                                   | ۰        | • reduction                                       |           | primates   |
|                 | pressure  |          | ∘ resistance                                      |           | apes<br>chimpanzees  |
|                 | pressure chambers   |          | retarding   |           | baboons  |
|                 | spacecraft cabin atmospheres                              |          | sabotage  |           | human beings   |
|                 | spacecraft cabins   |          | safety<br>stopping                                |           | monkeys  |
| pressur         | ized water reactors                                       |          | Stopping  |           |  |
| GS              | nuclear reactors  |          | tive maintenance                                  | ∞ primers |  |
|                 | liquid cooled reactors                                    |          | ed June 2000)                                     | SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|                 | water cooled reactors                                     | GS       | maintenance                                       | рт        | LISTED BELOW)  |
|                 | pressurized water reactors spectral shift control reactor |          | . preventive maintenance prevention               | RT        | engine primers<br>primers (coatings)                         |
| RT              | nuclear power reactors                                    |          | . preventive maintenance                          |           | primers (explosives)   |
|                 | pressure  | RT       | aircraft maintenance                              |           |  |
|                 |   |          | failure analysis                                  | primers   | (coatings)   |
| pressur<br>GS   | -   |          | inspection  | DEF       | Coatings designed to enhance adhe-                           |
| 00              | pressurizing . fuel tank pressurization                   |          | nondestructive tests reliability analysis         | sion.     | coatings   |
| RT              | accumulators  |          | Tollability analysis                              | 93        | . protective coatings  |
|                 | densification   | prewhir  | ling  |           | primers (coatings)   |
|                 | expulsion   | GS       | preparation                                       | RT        | dopes  |
|                 | expulsion bladders  |          | . prewhirling                                     |           | fillers  |
|                 | gas generators<br>gas injection                           | prewhit  | ening   |           | finishes   |
|                 | inflating   | GS       | preparation                                       |           | lacquers<br>metal coatings                                   |
|                 | pressure  |          | prewhitening                                      |           | paints   |
|                 | pressure regulators                                       | RT       | color   | 000       | primers  |
|                 | stimulation   | ٥        | • treatment                                       |           | sprayed coatings   |
| Preston         | tubes   | Drihran  | n meteorite                                       |           | substrates   |
| USE             | pitot tubes   | GS       | celestial bodies                                  |           | varnishes  |
|                 | speed indicators  |          | . meteorites                                      | primers   | (explosives)   |
|                 |   |          | stony meteorites                                  | GS        | explosive devices  |
| prestrair       |   |          | chondrites  |           | . initiators (explosives)                                    |
| USE             | prestressing  | RT       | Pribram meteorite bolides                         |           | primers (explosives)   |
| prestres        | ssing   | KI       | meteor trails                                     |           | igniters   |
| UF              | preloading  |          | motor trans                                       |           | . initiators (explosives) primers (explosives)               |
|                 | prestraining  | primary  | batteries   | RT        | caps (explosives)  |
| 00              | pretwisting   | SN       | (NON-RECHARGEABLE BATTERIES)                      |           | detonation   |
| GS              | preparation . pretreatment                                | GS       | electric generators . direct power generators     |           | detonators   |
|                 | . prestressing  |          | primary batteries                                 |           | exploding wires  |
| RT              | elastic deformation                                       |          | alkaline batteries                                | -         | percussion   |
|                 | isotensoid structures                                     |          | dry cells   | 00        | primers<br>squibs  |
|                 | stresses  |          | magnesium cells                                   |           | •  |
|                 | structural strain<br>tensegrity structures                |          | nickel zinc batteries metal air batteries         | ∞ priming |  |
|                 | tooginy on dotalog  |          | zinc-oxygen batteries                             | SN        | (USE OF A MORE SPECIFIC TERM IS                              |
| pretests        |   |          | sodium sulfur batteries                           |           | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                   |
| USE             | tests   |          | thermal batteries                                 | RT        | coating  |
| protect         | mont  |          | electrochemical cells                             |           | coatings   |
| pretreat<br>GS  | preparation   |          | . electric batteries primary batteries            |           | initiation<br>preparation                                    |
| 50              | . pretreatment  |          | alkaline batteries                                |           | pretreatment   |
|                 |   |          |   |           |  |

| starting  | . printers (data processing)   | refraction   |
|---|--|--|
| primitive Earth atmosphere  | . teleprinters<br>RT cathode ray tubes   | privacy  |
| GS Earth atmosphere   | data processing equipment  | DEF Freedom from observation and/or in-  |
| primitive Earth atmosphere  | plotters   | trusion. Applies to such things as communica-  |
| RT ∞ atmospheres  | printing   | tions, personal records, photographs.  |
| atmospheric composition   | projectors   | RT computer information security   |
| atmospheric electricity atmospheric models  | typewriters  | information<br>information dissemination   |
| Earth planetary structure   | printers (data processing)   | integrity  |
| free atmosphere   | GS computer components   | papers   |
| paleoclimatology  | . peripheral equipment (computers)   | recording  |
| planetary atmospheres   | printers (data processing)   | records  |
| primitive equations   | data processing equipment  | security   |
| DEF Eulerian equations of fluid motion in   | . peripheral equipment (computers) printers (data processing)  | private aircraft   |
| which the primary dependent variables are the   | printers   | USE general aviation aircraft  |
| fluid's velocity components. The equations gov-   | printers (data processing)   |  |
| ern a wide variety of fluid motions and form the  | RT automatic typewriters   | probability  |
| basis of most hydrodynamical analysis.  RT atmospheric boundary layer   | computers<br>∞ data  | USE probability theory   |
| climatology   | display devices  | probability density functions  |
| ∞ equations   | printouts  | GS functions (mathematics)   |
| Euler equations of motion   | readout  | probability density functions  |
| fluid dynamics  | teleprinters   | normal density functions<br>Pearson distributions  |
| ∞ mathematics   | printing   | Rayleigh distribution  |
| primordial galaxies   | GS printing  | Weibull density functions  |
| (added May 2002)  | . lithography  | statistical analysis   |
| USE protogalaxies   | photolithography   | probability density functions  |
| nvimovdial atava  | RT binding   | normal density functions   |
| primordial stars<br>(added July 1999)   | contrast   | Pearson distributions<br>Rayleigh distribution   |
| USE Population III stars  | document markup languages electronic publishing  | Weibull density functions  |
|   | electronography  | RT binomial theorem  |
| Prince Edward Island  | engraving  | censored data (mathematics)  |
| GS landforms  | inks   | continuity (mathematics)   |
| . islands<br><b>Prince Edward Island</b>  | legibility   | discrete functions events  |
| nations   | photoengraving photographic processing   | expectancy hypothesis  |
| . Canada  | photomechanical effect   | exponential functions  |
| Prince Edward Island  | plotting   | failure analysis   |
| Drings William Sound (AV)   | printers   | gas density  |
| Prince William Sound (AK) GS sounds (topographic features)  | reading  | Mills ratio<br>quartiles   |
| . Prince William Sound (AK)   | reproduction (copying)<br>stencil processes  | quartiles  |
|   | sterior processes  | much ability distribution functions  |
| RT Alaska   |  | probability distribution functions   |
|   | printouts  | GS functions (mathematics)   |
| Princeton sailwings   | RT format  | GS functions (mathematics) . distribution functions  |
|   | RT format<br>lists   | GS functions (mathematics) distribution functions probability distribution functions   |
| Princeton sailwings   | RT format<br>lists<br>output   | GS functions (mathematics) distribution functions probability distribution functions statistical analysis  |
| Princeton sailwings USE sailwings  principal components analysis RT image processing  | RT format<br>lists   | GS functions (mathematics) distribution functions probability distribution functions   |
| Princeton sailwings USE sailwings  principal components analysis RT image processing imaging techniques   | RT format lists output printers (data processing)  | GS functions (mathematics) . distribution functions . probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions  |
| Princeton sailwings USE sailwings  principal components analysis RT image processing imaging techniques Karhunen-Loeve expansion  | RT format lists output printers (data processing) readout tables (data)  | GS functions (mathematics) . distribution functions . probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions RT discrete functions  |
| Princeton sailwings USE sailwings  principal components analysis  RT image processing imaging techniques  Karhunen-Loeve expansion pattern recognition  | RT format lists output printers (data processing) readout tables (data)  priorities  | GS functions (mathematics) . distribution functions . probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions  |
| Princeton sailwings USE sailwings  principal components analysis RT image processing imaging techniques Karhunen-Loeve expansion  | RT format lists output printers (data processing) readout tables (data)  priorities RT engineering management  | GS functions (mathematics) distribution functions probability distribution functions statistical analysis probability distribution functions statistical distributions probability distribution functions discrete functions goodness of fit   |
| Princeton sailwings USE sailwings  principal components analysis  RT image processing imaging techniques    Karhunen-Loeve expansion pattern recognition spectral mixture analysis  ∞ principles  | RT format lists output printers (data processing) readout tables (data)  priorities  | GS functions (mathematics) . distribution functions . probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions RT discrete functions  |
| Princeton sailwings USE sailwings  principal components analysis  RT image processing imaging techniques Karhunen-Loeve expansion pattern recognition spectral mixture analysis  ∞ principles SN (USE OF A MORE SPECIFIC TERM IS  | RT format lists output printers (data processing) readout tables (data)  priorities RT engineering management project planning   | GS functions (mathematics) . distribution functions . probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions RT discrete functions goodness of fit  probability theory UF probability statistical probability   |
| Princeton sailwings USE sailwings  principal components analysis  RT image processing imaging techniques    Karhunen-Loeve expansion pattern recognition spectral mixture analysis  ∞ principles  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  | RT format lists output printers (data processing) readout tables (data)  priorities  RT engineering management project planning research management  | GS functions (mathematics) . distribution functions . probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions  RT discrete functions goodness of fit  probability theory  UF probability statistical probability RT ∞ applications of mathematics  |
| Princeton sailwings  USE sailwings  principal components analysis  RT image processing imaging techniques  Karhunen-Loeve expansion pattern recognition spectral mixture analysis  ∞ principles  SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  RT duality principle  | RT format lists output printers (data processing) readout tables (data)  priorities  RT engineering management project planning research management resource allocation sequencing   | GS functions (mathematics) . distribution functions probability distribution functions statistical analysis . probability distribution functions statistical distributions . probability distribution functions  RT discrete functions goodness of fit  probability theory UF probability statistical probability RT ∞ applications of mathematics belief networks   |
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Maxwell-Boltzmann density function simplex method batch processing Minkowski space data processing ∞ solution Monte Carlo method food processing operations research ∞ problems image processing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) outliers (statistics) SN manufacturing parameter identification materials recovery population theory message processing Bolza problems quality control nuclear fuel reprocessing boundary value problems random errors optical data processing Cauchy problem random noise photographic processing Chapman-Ferraro problem reliability production engineering Dirichlet problem sampling recycling four body problem refining statistical analysis isoperimetric problem statistical distributions retort processing many body problem settling statistics Mayer problem Stieltjes integral signal processing Neumann problem stochastic processes ultrasonic processing operational problems subgroups wet spinning Poincare problem system identification prelaunch problems processors (computers) ∞ theories three body problem USE central processing units transition probabilities tracking problem traveling salesman problem traveling salesman problem procurement uncertain systems two body problem procurement GS uniqueness theorem . government procurement procedures leasing probe method (forecasting) DEF Detailed instructions for the perforcontracts management methods mance of a process or function. equipment specifications . probe method (forecasting) methods government/industry relations predictions practices ∞ receiving . forecasting GS procedures services . . technological forecasting boundary integral method specifications . . probe method (forecasting) crew procedures (inflight) subcontracts Delphi method (forecasting) crew procedures (preflight) estimating finite element method procurement management ∞ methodology finite volume method GS management operations research . Godunov method . procurement management pattern method (forecasting) Glimm method allocations . optical correction procedure planning budgeting profile method (forecasting) panel method (fluid dynamics) ∞ budgets technology assessment procurement policy commercial off-the-shelf products systems analysis commodities probes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) federal budgets proceedings financial management USE conferences inventory management congressional reports Galileo probe products gas detectors services process control (industry) measuring instruments DEF The ways and means by which con-Pioneer 8 space probe procurement policy tinuous manufacturing and other industrial processes are monitored and maintained to create Pioneer 9 space probe policies GS Pioneer 10 space probe procurement policy products of planned, uniform dimension and Pioneer 11 space probe decisions quality. Pioneer Venus 1 spacecraft intellectual property RŤ component reliability Pioneer Venus 2 entry probes management ∞ control Pioneer Venus 2 night probe procedures group technology (manufacturing) Pioneer Venus 2 spacecraft regulations product development Pioneer Venus 2 transporter bus rules quality control Pioneer Venus spacecraft sampling radio probing product development specifications remote sensors engineering development product development sondes GS process heat space probes weapons development DEF Increase in enthalpy accompanying transducers aircraft design chemical reactions or phase transformations at aircraft production constant pressure (heat of crystallization and problem solving amplifier design heat of sublimation are examples). problem solving antenna design GS heat . alternating direction implicit methods breadboard models process heat asymptotic methods commerce RT heat generation . iterative solution commercial off-the-shelf products . theorem proving commercialization ∞ processes approximation computer design (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) backward differencing concurrent engineering computational grids consumers autoregressive processes Crank-Nicholson method ∞ design isentropic processes decision making ∞ development jet membrane process decision support systems engine design Kraft process (woodpulp) Dining Philosophers Problem functional design specifications nonisentropicity existence theorems helicopter design nonisothermal processes group dynamics inventions Ornstein-Uhlenbeck process homotropy lens design product development Householder transformations management quality control ill-conditioned problems market research sol-gel processes (mathematics) marketing space industrialization ill-posed problems (mathematics) patent applications Úmklapp process iteration patent policy learning theory pilot plants ∞ processing management process control (industry) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN maze learning ∞ processes methodology ∞ production

associative processing (computers)

RT

Newton methods

production engineering

quality schedules reproduction (biology) quality control prognosis rapid prototyping productivity reactor design aircraft production costs RT diagnosis reliability allowances Prognoz satellites satellite design efficiency GS artificial satellites solvent refined coal matrix management . Soviet satellites space industrialization morale . . Prognoz satellites spacecraft design production engineering standardization reliability program evaluation review technique structural design software reuse USE PERT workstations ∞ production program management (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) products SN USE project management GS products fission products program reliability (computers) aircraft production . gross national product USE software reliability food production (in space) . petroleum products fuel production . asphalt program trend line analysis output RT critical path method product development . . gasoline management planning production engineering . . tars **PERT** production planning . reaction products programs reserves . . combustion products project management tools . . . soot . . reaction intermediates program verification (computers) production costs commercial off-the-shelf products checkout data products The process of fabrication, from raw computer programming materials through the finished products, includby-products file maintenance (computers) ing packaging and other prorated costs. commodities proving manufacturing software development tools costs . production costs software reliability procurement management . aircraft production costs systems analysis production engineering RT cost analysis ∞ tests quality control cost estimates resource allocation programmable logic devices design to cost (added September 1992) life cycle costs services space industrialization GS reconfigurable hardware operating costs . programmable logic devices proficiency . field-programmable gate arrays production engineering USE ábilities architecture (computers) production methods computer systems design production engineering profile method (forecasting) controllers group technology (manufacturing) management methods logic circuits production planning profile method (forecasting) logic design aircraft production predictions aircraft production costs programmed cell death . forecasting ∞ capacity (added October 2000) . technological forecasting ∞ engineering ... profile method (forecasting)
Delphi method (forecasting) USE apoptosis human factors engineering laser applications programmed instruction estimating management GS education methodology numerical control . programmed instruction operations research ∞ operations . computer assisted instruction planning planning compilers probe method (forecasting) processing computer programming technology assessment product development computer programs ∞ production ∞ profiles productivity programmers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) airfoil profiles products GS personnel scheduling programmers standardization RT coders angles (geometry) computer programming curvature file maintenance (computers) production management delineation management production management GS ∞ programming
SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED--CONSULT THE TERMS
LISTED BELOW) distribution (property) geometry aircraft production costs employee relations gradients line shape computer programming estimates planforms dynamic programming fabrication profilometers file maintenance (computers) group technology (manufacturing) search profiles industrial management linear programming shapes manufacturing mathematical programming shock wave profiles quality control microprogramming slopes reliability multiprogramming streamlining resources nonlinear programming topography safety management programming (scheduling) wind profiles total quality management quadratic programming structured programming profilometers production methods GS measuring instruments programming (scheduling) USE production engineering . profilometers scheduling RT ∞ profiles programming (scheduling) production planning roughness . thrust programming GS planning shapes RT critical path method . management planning surface properties ∞ programming production engineering surface roughness ∞ steps

programming environments

(added January 1993)

production planning

RT ∞ production

progeny RT children

UF SEE (software engineering ... OPEN Project Energy project environments) Pioneer project Surface Radiation Budget project software engineering environments Project SETI . . Surveyor project . . Synchronous Communications
Satellite Proj computer programming Ranger project computer programs . Agena B Ranger Program environments Constellation program . . Telstar project software development tools Mars Surveyor 98 Program . Themis project software engineering New Horizons mission . . TIROS project Rover project . Titan project programming languages SAIL project . . Vanguard project languages Saturn project Voyager project . programming languages Scout project West Ford project ALGOL Skylab program radar target scatter site program . . APL (programming language) Starprobe mission space programs Assembly language Surveyor project . . Argentine space program . autocoders Synchronous Communications Australian space program ... COMPASS (programming Satellite Proj Brazilian space program language) Canadian space program Tektite project . MAP (programming language) TIROS project Alouette project . . BASIC (programming language) Titan project Chinese space program Vanguard project
Viking Mars program
Voyager project European space programs COGO (programming language) context free languages Forth (programming language) Austrian space program Belgian space program Belgian space program
Czechoslovakian space program
Danish space program
Finnish space program
French space program
German space program
Greek space program
Hungarian space program
Icelandic space program
Italian space program Mission to Planet Earth

National Aerospace Plane Program FORTRAN HAL/S (language)
high level languages
. Ada (programming language)
. C (programming language)
. C++ (programming language) quiet engine program
supersonic cruise aircraft research TACT program
Terminal Configured Vehicle Program
. . Tilt Rotor Research Aircraft . Java (programming language) LISP (programming language) machine oriented languages Program Italian space program PANT program Luxembourg space program natural language (computers) Netherlands space program . projects Pascal (programming language) . Advent Project . AgRISTARS project Norwegian space program PL/1 Portuguese space program . . Prolog (programming language) Alouette project Spanish space program computer programming Apollo project Swedish space program formalism Apollo Soyuz test project Swiss space program predicate logic Argus project Turkish space program structured programming ASSET project UK space program ATLIT project geographic applications program BIOS project Indian space program programs programs Bumblebee project Indonesian space program Army-Navy instrumentation program Centaur project Israeli space program Comsat program . . Defender project Japanese space program defense program . . Earth & Ocean Physics Mexican space program . Downrange Antimissile Applications Program NASA space programs Measurement Program Apollo applications program . . Echo project Global Atmospheric Research . . eclipse project Apollo project Program . . Experimental Reflector Orbital Shot Bioastronautical Orbital Space Proj
FIRE (climatology)
Galileo project
Geosari project
Harvard Radio Meteor Project . . GARP Atlantic Tropical Experiment . International Geosphere-Biosphere System . . . Centaur project . . . Earth & Ocean Physics program . lunar programs Applications Program
... Earth Resources Program
... Earth Resources Survey . . Surveyor project . NASA programs . Harvard Radio Meteor Pr . Helios Project . ISCCP Project . Jupiter project . Magellan project (NASA) . Mars 69 project . Mercury project . NEW MOONS project . Nike project Program SEASAT program ACEE program Echo project
Galileo project
Gemini project Assess program ATLIT project DAST program NASA space programs Helios Project Jupiter project Magellan project (NASA) Apollo applications program Apollo project Bioastronautical Orbital Space Nike project Mariner program Nimbus project OPEN Project Mariner Venus-Mercury 1973 System Centaur project Mariner-Mercury 1973 ... Earth & Ocean Physics
Applications Program
... Earth Resources Program Mars 69 project Mars 71 project Pioneer project Project SETI Radio Attenuation Measurement Mercury project . . . . Earth Resources Survey project National Launch Vehicle Program Program . . rand project NEW MOONS project SEASĂT program . . Ranger project Nimbus project . . . Echo project . . . Agena B Ranger Program **OPEN Project** Galileo project CERES (experiment) Pioneer project Gemini project . . Next Generation Space Telescope Project SETI Helios Project project Ranger project Jupiter project Rover project Agena B Ranger Program Magellan project (NASA) SAIL project Constellation program Mariner program Saturn project Mars Surveyor 98 Program Mariner Venus-Mercury 1973 New Horizons mission Scanner project Mariner-Mercury 1973 Scout project Rover project Mars 69 project Seafarer project SAIL project . Mars 71 project SQUID project Saturn project Scout project
Skylab program
Starprobe mission Mercury project National Launch Vehicle Program NEW MOONS project Submarine Integrated Control project
. . Success project

. . Surface Meteorology and Solar

. . . Nimbus project

Surveyor project

|             | Synchronous Communications                         | ~          | missions   | RT             | analytic geometry                       |
|-------------|--|------------|--|----------------|---|
|             | Satellite Proj                                     |            | NASA Interactive Planning System   |                | descriptive geometry                    |
|             | . Tektite project                                  |            | operations research  |                | gnomonic projection                     |
|             | TIROS project Titan project                        |            | priorities   |                | reciprocal theorems                     |
|             | Vanguard project                                   |            | projects   | project        | ors                                     |
|             | Viking Mars program                                | Project    | SETI   | SN             | (LIGHT AND IMAGE)                       |
|             | Voyager project                                    | DEF        | A program to search for extraterrestrial   | RT             | beacons                                 |
|             | New Zealand space program                          |            | nce by means of radio communication.   |                | illuminating                            |
|             | . Pakistan space program                           |            | Search for Extraterrestrial Intelligence   |                | luminaires                              |
|             | . Russian Space Program                            | and SET    |  |                | motion pictures photogrammetry          |
|             | . Saudi Arabian space program                      | UF         | Search for Extraterrestrial Intelligence<br>SETI                                   |                | photographic equipment                  |
|             | . U.S.S.R. space program . Ukrainian space program | GS         | programs   |                | photography                             |
|             | Starsite program                                   | 00         | . NASA programs  |                | printers                                |
|             | TRAP program                                       |            | NASA space programs  | ۰              | ∞ projection                            |
|             | university program                                 |            | Project SETI   |                | searchlights                            |
|             | oureaus (organizations)                            |            | . projects   | !4             | _                                       |
|             | Committee on Space Research                        |            | Project SETI   | project:<br>GS |   |
|             | computer program integrity                         |            | . space programs   | 63             | programs<br>. <b>projects</b>           |
|             | computer programs                                  |            | NASA space programs Project SETI   |                | Advent Project                          |
|             | Earth Resources Information System nvestigation    | RT         | extraterrestrial intelligence  |                | AgRISTARS project                       |
|             | nission planning                                   |            | radio communication  |                | Alouette project                        |
|             | nissions   |            | radio signals  |                | Apollo project                          |
|             | pperations   |            | •  |                | Apollo Soyuz test project               |
|             | program trend line analysis                        |            | le cratering   |                | Argus project                           |
|             | esearch and development                            | UF         | hypervelocity cratering  |                | ASSET project                           |
|             | esearch projects                                   | GS         | cratering  |                | ATLIT project BIOS project              |
|             | SEASAT 1   | RT         | . projectile cratering Deep Impact Mission   |                | Bumblebee project                       |
|             | SEASAT satellites                                  | KI         | ejecta   |                | Centaur project                         |
|             | SEASAT-B satellite<br>Solar Maximum Mission        |            | hypervelocity impact   |                | Defender project                        |
|             | Synchronous Earth Observatory                      |            | hypervelocity projectiles  |                | Earth & Ocean Physics                   |
| ,           | satellite  |            | meteorite craters  |                | Applications Program                    |
| ι           | user manuals (computer programs)                   |            | meteoritic damage  |                | Echo project                            |
|             | 1 1 1 1 1 1 1 1 1 1 1                              |            | meteoroid hazards  |                | eclipse project                         |
| progress    |  |            | Tempel 1 comet   |                | Experimental Reflector Orbital Shot     |
|             | economics  | projectil  | e penetration  |                | Proj<br>FIRE (climatology)              |
|             | nanagement<br>Dlanning                             |            | terminal ballistics  |                | Galileo project                         |
|             | properties   |            |  |                | Gemini project                          |
| ٠٠,١        | roperties  | projecti   | les  |                | Geosari project                         |
| progress    | ions   |            | Objects, especially missiles, fired,   |                | Harvard Radio Meteor Project            |
| GS a        | analysis (mathematics)                             |            | launched, or otherwise projected in any  |                | Helios Project                          |
|             | calculus   |            | such as bullets, guided rocket missiles, g rockets, or pilotless airplanes. Origi- |                | ISCCP Project                           |
|             | . series (mathematics)                             |            | jects, such as bullets or artillery shells,  |                | Jupiter project Magallan project (NASA) |
|             | progressions                                       |            | d by applied external forces.  |                | Magellan project (NASA) Mars 69 project |
|             | real variables . series (mathematics)              |            | projectiles  |                | Mars 71 project                         |
|             | progressions                                       |            | . hypervelocity projectiles  |                | Mercury project                         |
| •           | p. eg. ees. e.                                     |            | . precision guided projectiles   |                | NEW MOONS project                       |
| prohibition | on   | DT         | . Sabot projectiles  |                | Nike project                            |
|             | egal liability                                     | RT         | ammunition   |                | Nimbus project                          |
|             | penalties  |            | ballistics<br>bombs (ordnance)   |                | OPEN Project                            |
|             | policies   |            | cartridges   |                | Pioneer project Project SETI            |
| Г           | egulations   |            | finned bodies  |                | Radio Attenuation Measurement           |
| project n   | nanagement   |            | gunfire  |                | project                                 |
|             | program management                                 |            | guns (ordnance)  |                | rand project                            |
|             | nanagement   |            | incendiary ammunition  |                | Ranger project                          |
|             | project management                                 |            | nuclear weapons  |                | Agena B Ranger Program                  |
|             | commerce   |            | pyrotechnics   |                | CERES (experiment)                      |
|             | contract management                                |            | shaped charges<br>shrapnel   |                | Next Generation Space Telescope         |
|             | critical path method                               |            | terminal ballistics  |                | project Rover project                   |
|             | GERT<br>nterfaces                                  |            | terradynamics  |                | SAIL project                            |
|             | nanagement planning                                |            | warheads   |                | Saturn project                          |
|             | nanagement systems                                 |            | weapons  |                | Scanner project                         |
| r           | nission planning                                   |            |  |                | Scout project                           |
| r           | nultidisciplinary research                         | ∞ projecti |  |                | Seafarer project                        |
|             | PERT   | SN         | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                       |                | SQUID project                           |
|             | program trend line analysis                        |            | LISTED BELOW)  |                | Submarine Integrated Control            |
|             | projects   | RT         | Bonne projection   |                | project Success project                 |
|             | esearch and development esearch projects           |            | descriptive geometry drawings  |                | Surface Meteorology and Solar           |
|             | veapon system management                           |            | forecasting  |                | Energy project                          |
| `           |  |            | gnomonic projection  |                | Surface Radiation Budget project        |
| project p   | lanning  |            | graphic arts   |                | Surveyor project                        |
|             | planning   |            | illuminating   |                | Synchronous Communications              |
|             | management planning                                |            | magnification  |                | Satellite Proj                          |
|             | . project planning                                 |            | predictions  |                | Telstar project                         |
|             | allocations  |            | projectors   |                | Themis project                          |
|             | oudgeting<br>decisions                             |            | trends   |                | TIROS project<br>Titan project          |
|             | estimates  | projecti   | ve geometry  |                | Vanguard project                        |
|             | orecasting   | GS         | geometry   |                | Voyager project                         |
|             | goals  |            | . Euclidean geometry   |                | West Ford project                       |
| ř           | nanagement   |            | projective geometry  | RT             | bureaus (organizations)                 |
| r           | natrix management                                  |            | Mercator projection  |                | contracts                               |

|                | estimating   | promethium isotopes                                  | . hydrocarbons                                    |
|----------------|--|--|---|
|                | missions   | prominences  | aliphatic hydrocarbons<br>alkanes                 |
|                | operations project management  | GS prominences                                       | propane   |
|                | project planning   | . solar prominences                                  | RT cyclopropane                                   |
| 000            | research projects  | RT solar activity                                    | hydrocarbon fuels                                 |
|                | tasks<br>teams   | promotion  | nitropropane                                      |
|                | teams  | RT display devices                                   | propargyl groups                                  |
| prokary        |  | increasing   | DEF Crosslinking agents for certain aro-          |
| GS             | cells (biology)  | public relations<br>upgrading                        | matic polyamides used as matrix resins in fiber   |
| RT             | . prokaryotes<br>bacteria  | upgrading  | composites. GS organic compounds                  |
| • • • •        | biological evolution   | prone position                                       | . propargyl groups                                |
|                | cytology   | RT rest  | RT ethers   |
|                | eukaryotes<br>molecular biology  | sitting position<br>supine position                  | getters   |
|                | molecular biology  |  | phenyls   |
|                | spheroids  | Prony series   | ∞ propellant actuated devices                     |
| DEF            | Ellipsoids of revolutions, the longer which is the axis of revolution.     | GS analysis (mathematics) . calculus                 | SN (USE OF A MORE SPECIFIC TERM IS                |
| GS GS          | geometry   | series (mathematics)                                 | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)        |
|                | . Euclidean geometry   | Prony series   | RT ejection seats                                 |
|                | analytic geometry  | . real variables series (mathematics)                | explosive devices propellant actuated instruments |
|                | spheroids prolate spheroids  | Prony series   | rocket engines                                    |
| RT             | oblate spheroids   | ,  | <b>3</b>  |
|                |  | proofs   | propellant actuated instruments                   |
| prolater       |  | USE proving  | RT actuators                                      |
| RT             | shapes   | ∞ propagation  | controllers<br>∞ instruments                      |
| Prolog (       | programming language)  | SN (USE OF A MORE SPECIFIC TERM IS                   | measuring instruments                             |
|                | languages  | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)        | ∞ propellant actuated devices                     |
|                | . programming languages  | DEF The spreading abroad or sending for-             | Book of PC  |
| RT             | Prolog (programming language) artificial intelligence                      | ward, as of radiant energy. Used for propagators.    | propellant additives GS additives                 |
| • • • •        | computer programming   | UF propagators                                       | . propellant additives                            |
|                | expert systems   | RT acoustic propagation                              | propellant binders                                |
| prolong        | ation  | attenuation  | solid rocket binders                              |
| GS             | extensions   | crack propagation diffraction propagation            | RT antiicing additives antioxidants               |
|                | . prolongation   | diffusion  | catalysts   |
| RT             | time   | electromagnetic radiation                            | composite propellants                             |
| prometh        | nazine   | flame propagation                                    | corrosion prevention                              |
| •              | drugs  | propagation (extension) self propagation             | gelled propellants<br>inhibitors                  |
|                | . antihistaminics  | stress propagation                                   | plasticizers                                      |
|                | promethazine organic compounds   | transequatorial propagation                          | storable propellants                              |
|                | . amines   | transmission   | www.llout.bindons                                 |
|                | promethazine   | wave propagation                                     | propellant binders GS additives                   |
|                | . cyclic compounds   | propagation (extension)                              | . propellant additives                            |
|                | heterocyclic compounds promethazine  | GS propagation (extension)                           | propellant binders                                |
|                | prometnazme  | . crack propagation . flame propagation              | solid rocket binders                              |
| Prometl        |  | RT ∞ propagation                                     | binders (materials) . propellant binders          |
|                | ed July 1995)  |  | solid rocket binders                              |
|                | A natural satellite of Saturn, orbiting at distance of 139,350 kilometers. | propagation modes GS modes                           | RT composite propellants                          |
| GS             | celestial bodies   | . propagation modes                                  | glycidyl azide polymer<br>rocket propellants      |
|                | . natural satellites   | whispering gallery modes                             | solid propellants                                 |
|                | Saturn satellites Prometheus   | RT antipodes   |   |
| RT             | Saturn (planet)  | circular waveguides<br>electromagnetic surface waves | propellant casting                                |
|                |  | evanescent waves                                     | GS castings                                       |
| prometh        |  | field mode theory                                    | . <b>propellant casting</b><br>forming techniques |
| GS             | chemical elements . rare earth elements                                    | mode transformers<br>multimode resonators            | . casting   |
|                | promethium   | propagation velocity                                 | propellant casting                                |
|                | promethium isotopes  | shock wave interaction                               | www.llout.ch.ordistm.                             |
|                | metals . rare earth elements   | wave interaction                                     | propellant chemistry<br>RT ∞ chemistry            |
|                | promethium   | wave propagation<br>waveguides                       | solid propellant combustion                       |
|                | promethium isotopes  | waveguides   | thermochemistry                                   |
|                | h 440  | propagation velocity                                 |   |
| prometh<br>USE | promethium isotopes  | GS rates (per time)                                  | propellant combustion GS combustion               |
| OOL            | prometmam isotopes   | . <b>propagation velocity</b><br>velocity            | . propellant combustion                           |
|                | nium isotopes  | . propagation velocity                               | solid propellant combustion                       |
| UF             | promethium 146   | RT electromagnetic radiation                         | solid propellant ignition                         |
| GS             | chemical elements . nuclides   | group velocity<br>phase velocity                     | RT axial modes combustion efficiency              |
|                | . isotopes   | propagation modes                                    | combustion stability                              |
|                | promethium isotopes  | wave propagation                                     | erosive burning                                   |
|                | . rare earth elements promethium   | propogators  | fuel combustion                                   |
|                | promethium isotopes  | propagators<br>USE propagation                       | hydrocarbon combustion ignition                   |
|                | metals   | 22- h. 24-2000011                                    | metal combustion                                  |
|                | . rare earth elements  | propane  | reacting flow                                     |
|                | promethium   | GS organic compounds                                 | turbulent combustion                              |

velocity coupling

#### propellant consumption

(added June 1995)

GS consumption

propellant consumption

burning rate combustion efficiency fuel consumption

propellant tanks rocket propellants

solid propellant combustion

#### propellant decomposition

GS

decomposition propellant decomposition

endothermic fuels RT fuel corrosion inhibitors monopropellants storable propellants

propellant evaporation
GS phase transformations

. vaporizing . . evaporation

. . . propellant evaporation
RT evaporative cooling storable propellants

#### propellant explosions

DEF Detonations of propellants as a result of motor malfunction.

explosions

. chemical explosions

propellant explosions

RT detonation implosions rocket engines

#### propellant grains

RT burning rate grains solid propellants

solid rocket propellants

### propellant mass ratio

GS ratios

. mass ratios

. propellant mass ratio

payload mass ratio pressure ratio

propulsion system performance

propulsive efficiency specific impulse stage separation

propellant oxidizers USE rocket oxidizers

#### propellant properties ĠS

propellant properties

propellant sensitivity propellant storability

chemical properties

elastic properties

mechanical properties

∞ physical properties

∞ properties

thermodynamic properties

### propellant sensitivity

propellant properties
. propellant sensitivity sensitivity

propellant sensitivity

ignition temperature impact resistance shock resistance spontaneous combustion storable propellants

# propellant sprays RT fuel injection

fuel sprays liquid injection liquid rocket propellants sprayers

#### propellant storability

propellant properties GS

propellant storability

fuel corrosion inhibitors storable propellants

#### propellant storage

consumables (spacecraft) expulsion bladders fuel tank pressurization fuel tanks ground support equipment handling equipment missile storage rocket propellants space storage storable propellants ∞ storage underground storage

# propellant tanks

rocket propellant tanks Shuttle Superlightweight Tank SLWT (propellant tank) tanks (containers)

propellant tanks

cylindrical tanks expulsion bladders external tanks fluid filled shells fuel tank pressurization

fuel tanks

liquid filled shells

liquid propellant rocket engines liquid sloshing

pressure vessels propellant consumption

spherical tanks storage tanks tank geometry ullage

# propellant tests

chemical compatibility cold flow tests corrosion tests engine tests fuel tests interior ballistics ∞ materials tests missile tests propulsive efficiency stability tests ∞ tests

#### propellant transfer

GS fluid flow

. fuel flow

. propellant transfer

materials handling
propellant transfer

fuel control fuel systems liquid sloshing refueling

# propellants

Any agents used for consumption or combustion in rockets and from which the rockets derive their thrust, such as fuels, oxidizers, additives, catalysts, or any compounds or mixture of these; specifically, fuels, oxidants, or a combination or mixture of fuels and oxidants used in propelling rockets. Propellants are commonly in either liquid or solid form.

# GŚ propellants

. colloidal propellants

double base propellants

. . double base rocket propellants

. gelled propellants

. gelled rocket propellants

gun propellants

. high energy propellants

. Domino propellants

. high temperature propellants

hybrid propellants . hydrazine nitroform

. hydrogen azides . nitrasol explosives

pentolite RDX

. rocket propellants

. . gaseous rocket propellants

.. liquid rocket propellants

... cryogenic rocket propellants

... gelled rocket propellants

hypergolic rocket propellants

monopropellants

RP-1 rocket propellants

. . . slurry propellants

. slush hydrogen

. . . aerozine

. . nitramine propellants

. . solid rocket propellants

. . . double base rocket propellants

. . . HMX

... HTPB propellants

. . . metal propellants

. . TAGN

. . TATB

. solid propellants
. case bonded propellants

. . composite propellants . . nitramine propellants

. . plastic propellants

. . solid rocket propellants

. . . double base rocket propellants

. . . HMX

... HTPB propellants

... metal propellants

. storable propellants

. tetryl

ammunition

ascent propulsion systems

auxiliary propulsion ballistics

burning rate cartridges

chemical fuels ∞ energy sources

explosives fuel tanks fuels

fulminates guns (ordnance) incendiary ammunition oxetane polymers

∞ power supplies propulsion

spacecraft power supplies spacecraft propulsion specific impulse torpedoes

# propeller blades

GS airfoils

propeller blades blade tips ∞ blades fan blades feathering propellers prop-fan technology

# propeller drive

GS mechanical drives . propeller drive

rotary wings

synchrophasing

. helicopter propeller drive contrarotating propellers marine propulsion propellers underwater propulsion

# propeller efficiency

GS

efficiency . propulsive efficiency

prop-fan technology

. propeller efficiency contrarotating propellers power efficiency propellers

# propeller fans

propellers ĠS

propeller fans

ducted fans ∞ fans

lift fans

|              | prop-fan technology  | recoverability                                   | line of sight                   |
|--------------|--|--|---------------------------------|
|              | prop fair toolinology  | regularity                                       | missile control                 |
| nronell      | er noise   | shear properties                                 | proportional control            |
|              | ed July 1989)  | structural properties (geology)                  | rendezvous guidance             |
| ,            | elastic waves  | surface properties                               | terminal guidance               |
| 00           | . sound waves  | tensile properties                               | terriiriai guidance             |
|              | noise (sound)  | thermochemical properties                        | proposals                       |
|              | aircraft noise   | thermodynamic properties                         | (added February 1992)           |
|              | propeller noise  | thermophysical properties                        | GS documents                    |
|              | flow noise   | transport properties                             | . proposals                     |
|              |  |  | RT contracts                    |
|              | aerodynamic noise  | turbidity  | cost analysis                   |
| οт           | propeller noise  | virtual properties                               | reports                         |
| RT           | acoustic retrofitting  | propton toohnology                               | research and development        |
|              | aeroacoustics  | propfan technology USE prop-fan technology       | research and development        |
|              | blade slap noise   | USE prop-fan technology                          | proprioception                  |
|              | engine noise   | nron fon tochnology                              | UF kinesthesis                  |
|              | Ffowcs Williams-Hawkings equation                            | prop-fan technology                              | GS perception                   |
|              | mufflers   | DEF Technology of a small diameter, highly       |                                 |
|              | noise intensity  | loaded, many-bladed variable pitch advanced      | . sensory perception            |
|              | noise measurement  | turboprop.                                       | proprioception                  |
|              | noise prediction (aircraft)                                  | UF propfan technology                            | autokinesis                     |
|              | noise reduction  | RT propeller blades                              | RT gravity perception           |
|              | sound fields   | propeller efficiency                             | kinesthesia                     |
|              | sound transmission   | propeller fans                                   |                                 |
|              |  | turboprop engines                                | proprioceptors                  |
| propell      | er slipstreams   |  | GS anatomy                      |
|              | wakes  | prophylaxis                                      | . sense organs                  |
| -            | . aircraft wakes   | RT diseases                                      | proprioceptors                  |
|              | slipstreams  | immunology                                       | receptors (physiology)          |
|              |  |  | . proprioceptors                |
|              | propeller slipstreams  | propionic acid                                   | RT baroreceptors                |
|              | . turbulent wakes  | GS acids   | nervous system                  |
|              | slipstreams  | . carboxylic acids                               | sensitometry                    |
|              | propeller slipstreams  | fatty acids                                      | continuity                      |
| RT           | interference drag  | propionic acid                                   | propulsion                      |
|              |  |  | GS propulsion                   |
| propell      | ers  | organic compounds                                |                                 |
| GS           | propellers   | . carboxylic acids                               | . ascent propulsion systems     |
|              | . contrarotating propellers                                  | fatty acids                                      | . auxiliary propulsion          |
|              | . propeller fans   | propionic acid                                   | . chemical propulsion           |
|              | . shrouded propellers  |  | hybrid propulsion               |
|              | . tilted propellers  | proportion                                       | . descent propulsion systems    |
|              | . variable pitch propellers                                  | RT distributing                                  | . electric propulsion           |
| RT           | actuator disks   | ratios   | electromagnetic propulsion      |
| 111          |  |  | magnetic sails                  |
|              | feathering   | proportional control                             | electrostatic propulsion        |
|              | propeller blades   | DEF Control of an aircraft, rocket or space-     | ion propulsion                  |
|              | propeller drive  | craft in which the control surface deflection is | laser propulsion                |
|              | propeller efficiency   | proportional to the movement of the remote       | plasma propulsion               |
|              | ships  | controls.  | solar electric propulsion       |
|              |  | GS automatic control                             | . jet propulsion                |
|              | motion   | . proportional control                           | . low thrust propulsion         |
| (add         | ed July 2005)  | RT ∞ control                                     | electromagnetic propulsion      |
| DEF          | The motion of a celestial object per-                        | control equipment                                | magnetic sails                  |
| ceived v     | with respect to the celestial sphere.                        | feedback control                                 | electrostatic propulsion        |
| GS           | motion   | off-on control                                   | ion propulsion                  |
|              | . proper motion  |  |                                 |
| RT           | angular velocity   | proportional navigation                          | man operated propulsion systems |
|              | astrometry   | servocontrol                                     | photonic propulsion             |
|              | astronomical coordinates                                     |  | laser propulsion                |
|              | celestial reference systems                                  | proportional counters                            | plasma propulsion               |
|              | celestial sphere   | GS ionization chambers                           | solar propulsion                |
|              | stellar motions  | . proportional counters                          | solar electric propulsion       |
|              | Stellar Hotions  | measuring instruments                            | solar thermal propulsion        |
|              | tion.  | . counters                                       | . marine propulsion             |
| proper<br>SN |  | radiation counters                               | underwater propulsion           |
| 211          | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | proportional counters                            | submarine propulsion            |
|              | LISTED BELOW)  | . radiation measuring instruments                | . nuclear propulsion            |
| UF           | attributes   | radiation counters                               | fusion propulsion               |
| RT           | acoustic properties  | proportional counters                            | nuclear electric propulsion     |
|              | biodegradability   | RT anticoincidence detectors                     | . space station propulsion      |
|              | chemical properties  | dosimeters                                       | . spacecraft propulsion         |
|              | creep properties   | Geiger counters                                  | electromagnetic propulsion      |
|              | dielectric properties  | neutron counters                                 | magnetic sails                  |
|              | dynamic characteristics                                      | neutron counters                                 | electrostatic propulsion        |
|              | elastic properties   | proportional limit                               |                                 |
|              |  |  | ion propulsion                  |
|              | electrical properties  |  | matter-antimatter propulsion    |
|              | electromagnetic properties                                   | GS mechanical properties                         | negative matter propulsion      |
|              | hydrophobicity   | . elastic properties                             | photonic propulsion             |
|              | hygral properties  | proportional limit                               | laser propulsion                |
|              | macroscopic equations  | range (extremes)                                 | plasma propulsion               |
|              | magnetic properties  | . proportional limit                             | solar propulsion                |
| 0            | o materials science  | RT critical loading                              | solar electric propulsion       |
|              | mechanical properties  | modulus of elasticity                            | solar thermal propulsion        |
|              | optical properties   | stress-strain diagrams                           | RT aeronautical engineering     |
| 0            | ∘ physical properties  | ű  | ∞ aircraft                      |
|              | plastic properties   | proportional navigation                          | ∞ astronautics                  |
|              | porosity   | (added July 1998)                                | ∞ drives                        |
|              | prejudices   | GS navigation                                    | engines                         |
|              | progress   | . proportional navigation                        | exhaust gases                   |
|              | propellant properties  | RT homing  | fuel tank pressurization        |
|              | p. spondin proportios  | iti noning                                       | raor tarik prosounzation        |
|              | proximity  | interception                                     | fuel tanks                      |

 $\infty$ 

| 1.1.  |                                |                                      |          |   |
|---|--------------------------------|--------------------------------------|----------|---|
| high impulse                                      | pro                            | ppylene                              |          | enzymes   |
| locomotion  | propylene oxide                |                                      |          | protease  |
| mass drivers<br>missiles                          | GS epoxy co                    |                                      | protecti | on  |
| post boost propulsion system                      |                                | ene oxide                            | GS       | protection  |
| propellants                                       | . 1                            |                                      |          | . acceleration protection                         |
| propulsive efficiency                             | prospecting                    |                                      |          | . circuit protection                              |
| pulling   | USE explora                    | tion                                 |          | corrosion prevention                              |
| pushing   |                                |                                      |          | . environment protection                          |
| rocket propellants                                | prostaglandins<br>GS organic   | nompoundo                            |          | . eye protection                                  |
| solar sails                                       | . lipids                       | compounds                            |          | . meteoroid protection                            |
| space flight                                      | steroi                         | ds                                   |          | . radiation protection                            |
| Space Shuttle Main Engine                         |                                | staglandins                          |          | radiation shielding solar radiation shielding     |
| space tugs<br>thrust                              | secretion                      | _                                    |          | . planetary protection                            |
| tillust   | . endocr                       | ine secretions                       |          | thermal protection                                |
| propulsion system configurations                  | hormo                          | ones                                 |          | planetary quarantine                              |
| GS propulsion system configurations               |                                | staglandins                          | RT       | accident prevention                               |
| . ascent propulsion systems                       | RT biosynth                    |                                      |          | airport security                                  |
| . descent propulsion systems                      | prostate                       | giand                                |          | civil defense                                     |
| RT aerodynamic configurations                     | prostate gland                 |                                      |          | coatings  |
| aerospike engines                                 | GS anatomy                     | ,                                    |          | countermeasures                                   |
| aircraft configurations                           |                                | rinary system                        |          | flying ejection seats                             |
| auxiliary propulsion  ∞ configurations            |                                | ductive systems                      |          | hazards<br>housings                               |
| convertible fan-shaft engines                     | sex                            | glands                               |          | insulation  |
| laser propulsion                                  | pro                            | state gland                          |          | prevention  |
| launch vehicle configurations                     |                                | (anatomy)                            |          | protectors  |
| missile configurations                            | sex g                          |                                      | ~        | resistance  |
| post boost propulsion system                      |                                | state gland                          |          | safety  |
| space station propulsion                          | RT bladder                     | andina                               |          | safety devices                                    |
| spacecraft configurations                         | prostagl                       | anums                                |          | shielding   |
| ∞ systems   | prosthetic devic               | es                                   |          | warning   |
| topping cycle engines                             | •                              | equipment                            |          | warning systems                                   |
| propulaion system performance                     | . prosth                       | etic devices                         | nrotecti | ve clothing                                       |
| propulsion system performance  RT cold flow tests | artific                        | al ears                              | •        | clothing  |
| combustion efficiency                             | RT walking                     | machines                             | 00       | . protective clothing                             |
| ∞ performance                                     |                                |                                      |          | helmets   |
| power efficiency                                  | protactinium<br>GS chemica     | Lolomonto                            |          | pressure suits                                    |
| propellant mass ratio                             | . protac                       | l elements                           |          | space suits                                       |
| propulsive efficiency                             |                                | ctinium isotopes                     |          | extravehicular mobility units                     |
| rocket thrust                                     | metals                         | Millani isotopes                     |          | vapor barrier clothing                            |
| solar thermal propulsion                          | . protac                       | tinium                               | RT       | armor   |
| specific impulse                                  | •                              | ctinium isotopes                     |          | chemical defense                                  |
| ∞ systems   | ,                              |                                      |          | coveralls   |
| systems health monitoring                         | protactinium 234               |                                      |          | emergency life sustaining systems flight clothing |
| thermodynamic efficiency total impulse            | USE protacti                   | nium isotopes                        |          | gloves  |
| total impulse                                     | protactinium co                | mnounde                              |          | goggles   |
| propulsive efficiency                             | protactinium co<br>GS protacti | nium compounds                       |          | masks   |
| DEF The efficiency with which energy avail-       |                                | inium fluorides                      |          | safety devices                                    |
| able for propulsion is converted into thrust by a | RT ∞ chemica                   |                                      |          | shoes   |
| rocket engine.                                    | ∞ metal co                     |                                      |          |   |
| GS efficiency                                     |                                | •                                    |          | ve coatings                                       |
| . propulsive efficiency                           | protactinium flu               |                                      | UF       | ceramal protective coatings                       |
| propeller efficiency                              |                                | compounds                            | GS       | sprayed protective coatings coatings              |
| RT combustion efficiency                          |                                | compounds                            | 93       | . protective coatings                             |
| engine tests<br>laser propulsion                  | fluorio                        |                                      |          | . anodic coatings                                 |
| multistage rocket vehicles                        |                                | al fluorides<br>otactinium fluorides |          | ceramic coatings                                  |
| nozzle efficiency                                 | . halides                      |                                      |          | primers (coatings)                                |
| power efficiency                                  | fluorio                        |                                      |          | . refractory coatings                             |
| propellant mass ratio                             |                                | al fluorides                         | RT       | alkyd resins                                      |
| propellant tests                                  | pro                            | stactinium fluorides                 |          | aluminides  |
| propulsion  | metal                          | halides                              |          | anodizing   |
| propulsion system performance                     |                                | al fluorides                         |          | carbon nitrides                                   |
| specific impulse                                  |                                | tactinium fluorides                  |          | cladding  |
| thermodynamic efficiency                          |                                | ium compounds                        | ×        | construction materials corrosion                  |
| thrust programming total impulse                  | . protac                       | tinium fluorides                     |          | desensitizing                                     |
| total impulse                                     | protactinium iso               | tones                                |          | electroplating                                    |
| propyl compounds                                  |                                | nium 234                             |          | encapsulating                                     |
| RT ∞ chemical compounds                           |                                | l elements                           |          | finishes  |
|   | . nuclide                      |                                      |          | glass coatings                                    |
| propyl nitrate                                    | isotop                         | es                                   |          | glazes  |
| GS alkyl compounds                                | prot                           | actinium isotopes                    |          | gold coatings                                     |
| . propyl nitrate                                  | . protact                      |                                      |          | HVOF thermal spraying                             |
| esters  |                                | ctinium isotopes                     |          | inorganic coatings                                |
| . nitrate esters                                  | metals                         | to true                              |          | lacquers  |
| propyl nitrate                                    | . protact                      |                                      |          | metal coatings<br>nickel coatings                 |
| nitrogen compounds<br>. nitrate esters            | prota                          | ctinium isotopes                     |          | optical coatings                                  |
| propyl nitrate                                    | protease                       |                                      |          | paints  |
| FF  | GS biopolyn                    | ners                                 |          | plastic coatings                                  |
| propylene   | . protein                      |                                      |          | plating   |
| GS organic compounds                              | enzyr                          |                                      |          | rubber coatings                                   |
| . hydrocarbons                                    | prot                           |                                      |          | sprayed coatings                                  |
| aliphatic hydrocarbons                            |                                | compounds                            |          | surface finishing                                 |
| alkenes   | . protein                      | S                                    |          | transgranular corrosion                           |

varnishes . . melanin RT Neptune (planet) waterproofing . . myoglobin . . myosins prothrombin zinc coatings GS biopolymers . . osteocalcin protectors . . phytochrome . proteins . prothrombin protectors GS . . proteinoids ear protectors . . prothrombin organic compounds . proteins RT bumpers . . protoproteins prothrombin ∞ containers . . tumor suppressor proteins enclosures organic compounds thrombin . proteins fairings protium housings . . albumins USE light water protection . . aspartates safety devices . . calmodulin protobiology RT abiogenesis screens . . elastin sheaths . . enzymes biological diversity . . . aldolase shielding biological evolution . . . amidase 
 biology
 chemical evolution
 protein crystal growth . . . carbonic anhydrase (added March 1989) catalase paleontology . . . cholinesterase growth viruses crystal growth cytochromes . . protein crystal growth dehydrogenases protocol (computers) protein synthesis hexokinase protocol (computers) proteins lysozyme . carrier sense multiple access space processing nuclease Ethernet oxidase RT channels (data transmission) protein denaturation papain communication networks biopolymer denaturation pepsin computer networks phosphatases computer security protein metabolism protease data links metabolism renin data processing . protein metabolism thrombin data transmission . . lipid metabolism trypsin interoperability glucocorticoids . . fibrin local area networks protein synthesis . . globulins networks synthetic food fibrinogen packet switching . gamma globulin World Wide Web protein synthesis . . hemoglobin DEF Process by which protein molecules . . . carboxyhemoglobin protogalaxies are formed. . oxyhemoglobin (added May 2002) biological evolution . . keratins Clouds of hydrogen gas and dark matchemical evolution lipoproteins ter hypothesized to give rise to galaxies. protein crystal growth . . luminescent proteins primordial galaxies protein metabolism . . melanin celestial bodies GS . . myoglobin . galaxies proteinoids . . mvosins . . protogalaxies galactic clusters galactic evolution GS biopolymers . . osteocalcin . proteins phytochrome proteinoids . . proteinoids gravitational collapse organic compounds . . prothrombin star formation . proteins . . protoproteins . proteinoids . . tumor suppressor proteins adrenocorticotropin (ACTH) Proton 1 satellite GS artificial satellites proteins alanine . Soviet satellites biopolymers . proteins GS biopolymer denaturation . . Proton satellites collagens ... Proton 1 satellite . . albumins cysteamine . . aspartates cysteine Proton 2 satellite . . calmodulin ∞ food GS artificial satellites . . elastin macromolecules . Soviet satellites . . enzymes nucleic acids . . Proton satellites . aldolase nucleotides ... Proton 2 satellite . . . amidase ∞ nutrients . . . carbonic anhydrase peptides Proton 3 satellite . . . catalase polynucleotides GS artificial satellites cholinesterase polypeptides . Soviet satellites ... cytochromes protein crystal growth . . Proton satellites . dehydrogenases proteome ... Proton 3 satellite ... hexokinase protoplasm . lysozyme Proton 4 satellite serums . . . nuclease GS artificial satellites synthetic food . . . oxidase . Soviet satellites . . . papain . . Proton satellites . pepsin ... Proton 4 satellite (added September 2001) . . . phosphatases DEF An organism's protein complement as ... protease proton beams coded for by its genome. . . . renin GS beams (radiation) genome . . . thrombin particle beams molecular biology proton beams ... trypsin proteins . . fibrin neutron beams . . globulins proton belts . fibrinogen **Proteus** . gamma globulin (added July 1995) particles . . hemoglobin DEF A natural satellite of Neptune, orbiting . charged particles . . . carboxyhemoglobin at a mean distance of 117,600 kilometers. . . magnetically trapped particles . . . radiation belts . oxyhemoglobin celestial bodies . . . . proton belts
. corpuscular radiation . natural satellites . . keratins

. . Neptune satellites

... Proteus

lipoproteins

. . luminescent proteins

. radiation belts

... proton belts particles nuclei (nuclear physics) . trapped particles nucleon potential . . magnetically trapped particles radiation belts nucleons trapped particles ... radiation belts positive ions radiation belts .... proton belts upper atmosphere RT ∞ belts radiation shielding inner radiation belt proton protuberances tritons outer radiation belt GS protuberances proton protuberances protoplanetary disks proton damage (added March 2001) damage proton resonance DEF Circumstellar disks from which planproton damage GS resonance etary systems are created during star formation. . magnetic resonance RT accretion disks proton density (concentration) . . nuclear magnetic resonance planetary evolution GS density (number/volume) . . proton resonance planets particle density (concentration) nuclear particles protoplanets . . ion density (concentration) solar system evolution proton density (concentration) **Proton satellites** stellar envelopes . . . magnetospheric proton density GS artificial satellites stellar evolution RT atmospheric density . Soviet satellites atom concentration ... Proton satellites protoplanets plasma density ... Proton 1 satellite Transition objects formed during prispace density Proton 2 satellite meval cloud condensation into stellar systems Proton 3 satellite (stars, planets, etc.) which form the nucleus of proton energy planetary accretion. Used for planetesimals. Proton 4 satellite GS particle energy U.S.S.R. space program planetesimals proton energy GS celestial bodies activation energy proton scattering . protoplanets electron energy GS nuclear reactions cosmology planetary evolution ∞ energy proton scattering kinetic energy scattering proton scattering surface energy planetary mass ion scattering . planets proton flux density protoplanetary disks (LIMITED TO PROTON EMISSION OR DETECTION RATE PER UNIT AREA) rates (per time) SN proton telescopes solar nebula USE particle telescopes solar orbits solar system . flux density proton-antiproton interactions . . radiant flux density stellar evolution (added June 1999) ... particle flux density particle interactions . . . proton flux density protoplasm elementary particle interactions RT proteins irradiance . proton-antiproton interactions radiancy annihilation reactions protoplasts radiation counters antiprotons GS cells (biology) solar flux density high energy interactions . protoplasts matter-antimatter propulsion proton impact protoproteins GS impact proton-proton reactions GS biopolymers proton impact DEF Thermonuclear reactions in which two . proteins electron impact protons collide at very high velocities and comprotoproteins point impact bine to form deuterons. The resultant deuterons organic compounds may capture other protons to form tritium and . proteins proton irradiation the latter may undergo proton capture to form . protoproteins irradiation GS helium. The proton-proton reactions are now RT amino acids . ion irradiation believed to be the principal sources of energy proton irradiation within the sun and other stars of its class. A protosolar nebula deuteron irradiation (added June 2001) temperature of 5 million degrees Kelvin and high electron radiation USE solar nebula hydrogen (proton) concentrations are required for these reactions to proceed at rates compat-Proton launch vehicle (added April 1995) ible with energy emission by such stars. protostars nuclear reactions celestial bodies GS GS launch vehicles proton-proton reactions . stars heavy lift launch vehicles annihilation reactions . . protostars Proton launch vehicle ∞ interactions ... pre-main sequence stars international cooperation pomerons . T Tauri stars Russian Space Program thermonuclear reactions brown dwarf stars space commercialization solar nebula protons star formation proton magnetic resonance DEF Positively charged subatomic particles stellar evolution GS resonance having a mass of 1. 67252 times 10 to the minus stellar mass accretion . magnetic resonance 24 gram, slightly less than that of an electron. . . nuclear magnetic resonance GS particles ... proton magnetic resonance . charged particles Preliminary type, form, or instance of . . protons systems that serve as models for later stages or proton masers stimulated emission devices . . . recoil protons for the final, completed version of the systems. . . . solar protons RT breadboard models . masers . elementary particles ∞ patterns . proton masers . . fermions pilot plants RT magnetometers ... protons rapid prototyping . . . . recoil protons proton precession . . solar protons protozoa GS gyration RT alpha particles GS animals precession proton precession antiprotons . protozoa

barvons

ions

cosmic rays

deuterons

flux density

hydrogen ions

nuclear particles

. . amoeba

. . Flagellata

. . paramecia

microorganisms

. pelomyxa

. . . trypanosome

free vibration

particle precipitation

electron precipitation

proton precipitation

proton precipitation

auroras

GS

| . protozoa                                   | R I ∞ eπects                                     | confidence  |
|--|--|---|
| amoeba                                       | electricity                                      | disorientation                                    |
| pelomyxa                                     | superconductors (materials)                      | ∞ effects   |
| Flagellata                                   | volt-ampere characteristics                      | emotions  |
| Euglena                                      |  | environmental engineering                         |
|  | PRTR (reactor)                                   | 0 0   |
| trypanosome                                  | , ,  | environments                                      |
| paramecia                                    | USE plutonium recycle test reactor               | frustration                                       |
| RT microspores                               | nu saia asid                                     | human factors engineering                         |
| spores                                       | prussic acid                                     | human reactions                                   |
|  | USE hydrocyanic acid                             | humidity  |
| protractors                                  |  | military psychology                               |
| GS measuring instruments                     | pseudomonas                                      | moods   |
| . protractors                                | GS microorganisms                                |   |
| •  | . bacteria                                       | psychoacoustics                                   |
| RT angles (geometry)                         | pseudomonas                                      | reaction time                                     |
|  | pscadomonas                                      | space adaptation syndrome                         |
| protuberances                                | pseudonoise                                      | space psychology                                  |
| SN (COMPONENTS MOUNTED EXTERNAL              | •  | stress (biology)                                  |
| TO THE STRUCTURE)                            | RT random noise                                  | stress (psychology)                               |
| GS protuberances                             |  | Taylor manifest anxiety scale                     |
| . proton protuberances                       | pseudopotentials                                 | Taylor manifest anxiety scale                     |
| RT aerodynamic configurations                | DEF Factors in an approximate method for         | novehelesieel feetere                             |
| aerodynamic interference                     | calculation of energy bands in solids by the use | psychological factors                             |
| aircraft antennas                            | of approximation which includes the many body    | RT astronaut performance                          |
| aircraft parts                               | effect.  | aviation psychology                               |
| airframes                                    |  | emotional factors                                 |
|  | •  | flight stress (biology)                           |
| ∞ blisters                                   | melting  | habits  |
| cowlings                                     | semiconductors (materials)                       | moods   |
| domes (structural forms)                     |  |   |
| external store separation                    | pseudorandom sequences                           | permissivity                                      |
| external stores                              | RT random numbers                                | psychoacoustics                                   |
|  | ∞ signals  | psychosomatics                                    |
| fairings                                     | o signals  | reward (psychology)                               |
| fuel tanks                                   | DCD (points)                                     | sex factor  |
| housings                                     | PSP (paints)                                     | space psychology                                  |
| nacelles                                     | (added March 2001)                               |   |
| papillae                                     | USE pressure sensitive paints                    | ∞ stimuli   |
| pitot tubes                                  |  | stress (psychology)                               |
| radomes                                      | psychiatry                                       |   |
|  | GS medical science                               | psychological indexes                             |
| ∞ ridges                                     | . psychiatry                                     | USE psychological tests                           |
| shells (structural forms)                    |  | , , , , , , , , , , , , , , , , , , ,             |
| vortex alleviation                           | neuropsychiatry                                  | psychological sets                                |
| wing-fuselage stores                         | social psychiatry                                |   |
| winglets                                     | RT brain   | GS psychology                                     |
| g.o.c  | military psychology                              | . psychological sets                              |
| proustite                                    | psychology                                       |   |
|  | psychotherapy                                    | psychological tests                               |
| GS arsenic compounds                         | poyonounorapy                                    | UF psychological indexes                          |
| . arsenides                                  | psychoacoustics                                  | GS psychological tests                            |
| proustite                                    |  | . Rorschach tests                                 |
| minerals                                     | GS acoustics                                     |   |
| . proustite                                  | . psychoacoustics                                | RT certification                                  |
| . prodotto                                   | psychology                                       | environmental tests                               |
| Provider aircraft                            | . psychophysics                                  | intelligence tests                                |
|  | psychoacoustics                                  | limen   |
| USE C-123 aircraft                           | • •  | military psychology                               |
|  | RT auditory perception                           | personality tests                                 |
| proving                                      | auditory signals                                 |   |
| UF confirmation                              | bells  | pilot selection                                   |
| demonstration                                | bioacoustics                                     | psychometrics                                     |
| proofs                                       | noise intensity                                  | ratios  |
| validation                                   | psychological effects                            | Skinner boxes                                     |
|  | psychological factors                            | Taylor manifest anxiety scale                     |
| verification (proving)                       | psychological factors                            | ∞ tests   |
| GS proving                                   | and the Proceedings                              | ∞ (62)2   |
| . theorem proving                            | psycholinguistics                                | are and a large.                                  |
| RT acceptability                             | DEF Study of linguistic behavior such as         | psychology  |
| error detection codes                        | conditioning by psychological factors including  | DEF The science which studies the func            |
| evaluation                                   | the speaker's and listener's culturally deter-   | tions of the mind, such as sensation, perception  |
|  | mined categories of expression and comprehen-    | memory, thought, and, more broadly the behav-     |
| examination                                  | sion.  | ior of an organism in relation to its environment |
| mathematical logic                           | GS linguistics                                   | GS psychology                                     |
| ∞ measurement                                |  |   |
| program verification (computers)             | . psycholinguistics                              | . aviation psychology                             |
| ∞ tests                                      | RT intelligibility                               | . cognitive psychology                            |
|  | phonemes   | . military psychology                             |
| provisioning                                 | phonemics  | . psychological sets                              |
| RT consumables (spacecrew supplies)          | robots   | . psychophysics                                   |
| (-1  | semantics  | psychoacoustics                                   |
| ∞ food                                       |  |   |
| life support systems                         | syllables  | . space psychology                                |
| space rations                                | syntax   | RT biofeedback                                    |
| stowage (onboard equipment)                  |  | boredom   |
| · · · · · · · · · · · · · · · · · · ·        | psychological effects                            | brain   |
| proximity                                    | GS psychological effects                         | cybernetics                                       |
| RT distance                                  | . desynchronization (biology)                    | detachment  |
|  | . illusions                                      | diagnosis   |
| ∞ properties                                 |  |   |
| tightness                                    | hallucinations                                   | disorders   |
|  | moon illusion                                    | disorientation                                    |
| proximity effect (electricity)               | oculogravic illusions                            | emotional factors                                 |
| DEF Redistribution of current in a conductor |  | emotions  |
| caused by the presence of another conductor. | •  | extroversion                                      |
| GS electrical properties                     | . jet lag  | frustration                                       |
|  |  |   |
| . inductance                                 | RT afterimages                                   | inspiration                                       |
| proximity effect (electricity)               | aviation psychology                              | intellect   |
| electromagnetic properties                   | biological effects                               | introversion                                      |
| . inductance                                 | boredom  | morale  |

comfort

. proximity effect (electricity)

prejudices

psychiatry psychometrics . public law psychometrics . . liabilities psychotherapy . . . legal liability psychotherapy . . penalties Rorschach tests GS therapy psychotherapy stress (psychology) air law subliminal stimuli convulsions insurance (contracts) Gestalt theory public relations health psychometrics mental health  $RT \propto cooperation$ RT diagnosis neuropsychiatry improvement education psychiatry promotion military psychology psychology upgrading norms psychotropic drugs personality tests public speaking psychological tests oratory psychotic depression UF psychology RT GS psychoses lectures psychomotor performance psychotic depression speech psychophysics  $\infty$  depression psychosomatics publications neurotic depression Skinner boxes USE documents psychotropic drugs GS drugs psychomotor performance (added July 1995) psychotropic drugs DEF Of or pertaining to muscular action DEF A natural satellite of Uranus, orbiting at . . marijuana ensuing directly from a mental process, as in the a mean distance o of 86,010 kilometers. central nervous system coordinated manipulation of aircraft or space-GS celestial bodies narcotics craft controls. . natural satellites neurophysiology GS sensorimotor performance . . Uranus satellites psychomotor performance physiochemistry . Puck . psychosomatics psychopharmacology Uranus (planet) abilities psychotherapy biocontrol systems sedatives Puerto Rico human performance psychrometers landforms human reactions DEF Instruments for measuring humidity . islands mental performance . . West Indies through the use of wet and dry bulb thermomoperator performance ... Puerto Rico physiological tests eters measuring instruments nations GS pilot performance . United States . moisture meters psychometrics .. Puerto Rico . . hygrometers reaction time . . psychrometers workloads (psychophysiology) pulleys atmospheric moisture RT ∞ belts chemical analysis psychopharmacology blocks humidity The science that deals with the action idlers humidity measurement of drugs on mental function. rollers meteorological instruments medical science GS wheels . pharmacology winches psychrophiles . psychopharmacology mesophiles central nervous system pulling microorganisms central nervous system depressants RT ∞ drawing thermophiles central nervous system stimulants ∞ force drugs PTM (modulation) propulsion life sciences USE pulse time modulation traction medical science pulling (frequency stability) ∞ medicine **Ptolemaeus Crater** USE frequency pulling nervous system craters psychotropic drugs . lunar craters pulmonary circulation . Ptolemaeus Crater GS circulation RT meteorite craters psychophysics . blood circulation GS psychology . pulmonary circulation p-type semiconductors psychophysics RT alveoli semiconductors (materials) . psychoacoustics artificial cardiac pacemaker p-type semiconductors RT ∞ physics blood pumps holes (electron deficiencies) psychometrics heart implantation indium aluminum arsenides ∞ science semiconductor junctions lungs respiratory system psychophysiology public address systems pulmonary functions  $RT \, \infty \, systems$ GS physiology RT alveoli warning systems psychophysiology evoked response (psychophysiology) ∞ functions public health information processing (biology) lungs ∞ science biophysics pulmonary lesions . health physics workloads (psychophysiology) public health GS diseases health . pulmonary lesions psychoses . health physics injuries psychoses public health . lesions psychotic depression . pulmonary lesions hazardous material disposal (in schizophrenia space) hygiene medical services lung morphology detachment lungs disorders occupational diseases fear respiratory diseases nonpoint sources irrationality occupational diseases neuroses pulsar magnetospheres oral hygiene (added July 1988)
GS stellar magnetospheres pollution psychosomatics sanitation . pulsar magnetospheres sensorimotor performance GS urban planning magnetic fields . psychomotor performance ∞ magnetospheres psychosomatics

public law

GS law (jurisprudence)

pulsars

RT psychological factors

pulse heating stellar atmospheres . pulse communication GS waveforms stellar magnetic fields . digital spacecraft television . pulse duration bit error rate electric pulses pulsars communication networks laser outputs GS celestial bodies data transmission maser outputs . radio sources (astronomy) delta modulation pulse repetition rate . . radio stars differential pulse code modulation pulsed radiation ... pulsars digital television sawtooth waveforms . stars electromagnetic missiles square waves electromagnetic pulses . . neutron stars time signals frequency division multiplexing . . . pulsars ultrashort pulsed lasers . . radio stars modems pulse duration modulation . . pulsars multiple access multiplexing orthogonal multiplexing theory degenerate matter DEF A form of pulse time modulation in which the duration of a pulse is varied. Used for gamma ray sources (astronomy) radio communication PDM (modulation), pulse width modulation, and magnetars pulsar magnetospheres radio transmission PWM (modulation). quasars satellite transmission PDM (modulation) pulse width modulation radiation sources signal transmission space communication . PWM (modulation) radio astronomy telegraph systems radio bursts coding . signal encoding starquakes telemetry . . pulse modulation supernova remnants time division multiple access ... pulse time modulation pulsating flow ... pulse duration modulation pulse compression USE unsteady flow The coding and processing of a signal modulation pulse of long time duration to one of short time . pulse modulation duration and high range resolution, while maintaining the benefits of high pulse energy. . . pulse time modulation pulse (cardiovascular) USE heart rate . pulse duration modulation modems coding pulse amplitude compressing A general term indicating the magnipulse frequency modulation radar tude of a pulse. Used for pulse height. DEF A form of pulse time modulation in pulse height which the pulse repetition rate is the characterpulse detonation engines istic varied. Used for PFM (modulation). amplitudes (added March 2001) pulse amplitude DEF Rocket engines that operate by injecting fuel and oxidizer into long chambers and PFM (modulation) waveforms coding pulse amplitude . signal encoding igniting the mixture with a spark plug or similar . . frequency modulation . . . pulse frequency modulation . . pulse modulation amplitude distribution analysis device. Quasi-steady thrust levels can be electric pulses achieved by repeating this cycle at relatively photopeak high frequency and/or using more than one pulsed radiation pulse frequency modulation combustion chamber operating out of phase. sawtooth waveforms UF PDE (engines) modulation . frequency modulation square waves PDRE (engines) PDWE (engines) . pulse frequency modulation pulse amplitude modulation pulse detonation wave engines . pulse modulation PAM (modulation) GS engines . pulse frequency modulation GS coding . rocket engines communication equipment . signal encoding . . liquid propellant rocket engines differential pulse code modulation . . pulse modulation pulse detonation engines modems . . pulse amplitude modulation air breathing engines modulation pulse frequency modulation telemetry detonation . pulse modulation GS telecommunication . pulse amplitude modulation pulse detonation wave engines . radio communication modems (added March 2001) . . radio telemetry P.A.C.M. telemetry USE pulse detonation engines pulse frequency modulation telemetry pulse charging
 DEF Rapid and efficient method for chargpulse diffraction . telemetry diffraction . . radio telemetry GS pulse diffraction ... pulse frequency modulation battery chargers holographic optical elements telemetry electric batteries plasma jets transmission electric charge pulsed radiation . signal transmission storage batteries wave propagation . . telemetry . . . radio telemetry .... pulse frequency modulation pulse code modulation pulse Doppler radar DEF Any modulation which involves a pulse code. Used for PCM (modulation). A pulse radar system which utilizes the telemetry Doppler effect for obtaining information about communication equipment PCM (modulation) the target (not including simple resolution from frequency modulation GS coding modulation fixed targets). GS

ing electric batteries.

. signal encoding

. . pulse modulation

... pulse code modulation

.... delta modulation

... differential pulse code

modulation

modulation

. pulse modulation

. pulse code modulation

... delta modulation

. differential pulse code modulation

biternary code decommutators P.A.C.M. telemetry PCM telemetry unified S band

#### pulse communication

UF digital communication GS telecommunication

. Doppler radar . . pulse Doppler radar

. . . monopulse radar

Shuttle Imaging Radar

. pulse radar

. . pulse Doppler radar

. . . monopulse radar

Shuttle Imaging Radar

cancellation circuits coherent radar

#### pulse duration

DEF The time interval between the first and last instances at which the instantaneous amplitude reaches a stated fraction of the peak pulse amplitude. Used for light duration and pulse width

UF light duration nulse width

# shock wave generators

pulse generators

pulse heating GS hardening (materials)

pulse modulation

radio transmission

signal encoding

compulsators

∞ generators

lasers

electric pulses

laser cavities

function generators

impulse generators

plasma generators

pulse repetition rate pulsed radiation

Hartmann-Sprenger tubes

. pulse heating search radar reached, at which point an arc discharge iniheat treatment surveillance radar tiates in the capillary between the electrodes. . annealing synchronizers pulsed arcjet engines . pulse heating tracking radar engines . rocket engines heating . transient heating pulse rate . . electric rocket engines (FOR CARDIOVASCULAR PULSE, USE HEART RATE) . pulse heating SN ... electrothermal engines laser heating . . . . arc jet engines UF chronotrons simulated annealing .... pulsed jet engines GS rates (per time) plasma engines pulse rate pulse height resistojet engines . pulse repetition rate USE pulse amplitude RT electric pulses pulsed laser deposition picosecond pulses pulse modulation (added December 1992) pulsed radiation Modulation of a carrier by a pulse train. GS deposition Modulation of one or more characteristics of a . laser deposition pulse recorders pulse carrier. ... pulsed laser deposition USE counters GS coding utilization . signal encoding . laser applications pulse repetition rate . . pulse modulation . . laser deposition rates (per time) ... pulse amplitude modulation . . pulsed laser deposition . pulse rate ... pulse code modulation crystal growth . pulse repetition rate . . . . delta modulation epitaxy frequency response . . . . differential pulse code excimer lasers optical pumping modulation laser heating pulse duration ... pulse frequency modulation pulsed lasers pulse generators ... pulse time modulation superconducting films pulsed lasers . pulse duration modulation vapor deposition .... pulse position modulation pulse time modulation modulation pulsed lasers DEF Modulation in which the values of in-. pulse modulation GS stimulated emission devices stantaneous samples of the modulating wave pulse amplitude modulation are caused to modulate the time of occurrence . . pulse code modulation . . pulsed lasers of some characteristic of a pulse carrier. Used . . . delta modulation . . . Q switched lasers for PTM (modulation). . . . ultrashort pulsed lasers . . . differential pulse code modulation PTM (modulation) . . pulse frequency modulation ... ultraviolet lasers GS coding . . pulse time modulation argon lasers . signal encoding carbon dioxide lasers . . . pulse duration modulation . . pulse modulation . . pulse position modulation gas lasers . . . pulse time modulation RT amplitude modulation glass lasers . . . . pulse duration modulation demodulation inertial fusion (reactor) pulse position modulation laser heating laser target interactions demodulators modulation electric pulses . pulse modulation electromagnetic missiles laser welding . . pulse time modulation nitrogen lasers electromagnetic pulses . . . pulse duration modulation frequency modulation light modulation pulse repetition rate . . . pulse position modulation pulsed laser deposition modems pulse width ruby lasers semiconductor lasers modulators USE pulse duration phase modulation TEA lasers pulse frequency modulation telemetry pulse width amplitude converters tube lasers pulsed radiation waveguide lasers  $RT\, \infty \, converters$ radio telemetry frequency converters pulsed plasma thrusters time division multiplexing (added April 2001) trigatrons pulse width modulation DEF Electromagnetic propulsion devices in USE pulse duration modulation which electrical power is used to ablate, ionize, and electromagnetically accelerate atoms and pulse position modulation A form of pulse time modulation in pulsed arcjet engines which the position in time of a pulse is varied. (added March 2001) molecules from a block of solid propellant mate-Also called pulse phase modulation. Used for USE pulsed jet engines UF PPT (rocket engines) PPM (modulation). PPM (modulation) pulsed inductive thrusters engines GS coding (added April 2001) . rocket engines . signal encoding DEF Electromagnetic propulsion devices . . electric rocket engines . . pulse modulation that accelerate a plasma propellant by the JxB . . . plasma engines ... pulse time modulation Lorentz force, and in which the driving current in ... pulsed plasma thrusters . pulse position modulation the plasma is induced, rather than being introelectromagnetic propulsion modulation duced through electrodes. plasma propulsion . pulse modulation PIT (rocket engines) spacecraft propulsion . . pulse time modulation engines ∞ thrustors . pulse position modulation . rocket engines pulsed radiation modems . . electric rocket engines GS pulsed radiation . . . plasma engines . . . pulsed inductive thrusters . electromagnetic pulses DEF A type of radar, designed to facilitate . . system generated electromagnetic electromagnetic propulsion range measurement, in which the transmitted plasma propulsion pulses energy is emitted in periodic short pulses. spacecraft propulsion continuous radiation GS radar corpuscular radiation ∞ thrustors . pulse radar elastic waves electromagnetic radiation . . pulse Doppler radar pulsed jet engines . . . monopulse radar DEF Arcjet engines that produce thrust by gamma ray lasers ejecting a pulsed, high velocity plasma out of a . . Shuttle Imaging Radar laser damage conventional supersonic nozzle. The pulsed arccoherent radar lasers

jet geometry consists of a narrow cylindrical

chamber or capillary upstream of the nozzle

convergent section. A power supply is used to

charge the capacitors of a pulse-forming-

network. The power supply ramps up the voltage on the capacitors until the breakdown voltage of

the propellant between the electrodes is

picosecond pulses

pulse amplitude

pulse diffraction

pulse generators pulse modulation

pulse duration

pulse rate

continuous wave radar

electromagnetic pulses

polystation doppler tracking system

meteorological radar

Doppler radar

echo suppressors

multistatic radar

|                 | radiation   |              | centrifugal pumps  |          | magnetic tapes                      |
|-----------------|---|--------------|--|----------|-------------------------------------|
| 00              | rays  | numn o       | aala   |          | readers                             |
|                 |   | pump s<br>GS | seals (stoppers)   | ٥        | ∘ tapes                             |
| pulseje         | t engines   | GS           | . pump seals   | punche   | ne.                                 |
|                 | Compressorless jet engines in which   | RT           | gaskets  | RT       | dies                                |
|                 | tion takes place intermittently producing   |              | glands   | 131      | machine tools                       |
|                 | by a series of explosions, commonly   |              | glands (seals)   |          | molds                               |
|                 | g at the approximate resonance fre-   |              | hermetic seals   |          | platens                             |
| GS              | of the engine. engines  |              | labyrinth seals  |          | presses                             |
| 93              | . air breathing engines   |              | molecular pumps  |          | stamping                            |
|                 | gas turbine engines   |              |  |          |                                     |
|                 | jet engines   | ∞ pumpir     |  | punctur  | •                                   |
|                 | ramjet engines  | SN           | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | USE      | piercing                            |
|                 | pulsejet engines  |              | LISTED BELOW)  | pupa     |                                     |
|                 | . internal combustion engines   | RT           | blowing  | RT       | insects                             |
|                 | gas turbine engines   |              | compressed air   |          | larvae                              |
|                 | jet engines   |              | compressing<br>cryopumping                                   |          |                                     |
|                 | ramjet engines  |              | drainage   | pupil si | ize                                 |
|                 | pulsejet engines  |              | electron pumping   | RT       | pupillometry                        |
|                 | . turbine engines gas turbine engines   |              | jet pumps  |          |                                     |
|                 | jet engines   |              | laser pumping  | pupillo  |                                     |
|                 | ramjet engines  |              | magnetic pumping   | RT       |                                     |
|                 | pulsejet engines  |              | maser pumping  |          | dark adaptation<br>light adaptation |
| RT              | detonation  |              | materials handling   |          | ngnt adaptation                     |
|                 | firing (igniting)   |              | nuclear pumping  | · ·      | pupil size                          |
|                 | V-1 missile   |              | optical pumping  |          | Pupii 0.20                          |
|                 |   |              | plasma pumping   | pupils   |                                     |
| pulses          |   |              | pumps  | GS       | anatomy                             |
| DEF             | Short-wave trains of mechanical vibra-  |              | purging  |          | sense organs                        |
| tion.           |   |              | windmills (windpowered machines) windpowered pumps           |          | eye (anatomy)                       |
| GS              | pulses  |              | willapowered pullips   |          | pupils                              |
|                 | . electric pulses   | pumps        |  | RT       | vision                              |
|                 | . electromagnetic pulses  | SN           | (LIMITED TO PUMPS FOR  |          |                                     |
|                 | system generated electromagnetic  |              | MATERIALSEXCLUDES HEAT PUMPS)                                | purging  |                                     |
|                 | pulses  | UF           | hydraulic pumps  | RT       | circulation                         |
|                 | . geomagnetic pulsations  | GS           | pumps  |          | clearing decontamination            |
|                 | geomagnetic micropulsations   |              | . axial flow pumps   |          | degassing                           |
|                 | . micropulsations   |              | turbine pumps<br>. blood pumps                               |          | distillation                        |
|                 | geomagnetic micropulsations . picosecond pulses                                     |              | . centrifugal pumps  |          | evacuating (vacuum)                 |
|                 | . pressure pulses   |              | . diffusion pumps  |          | flushing                            |
| RT              | amplitudes  |              | . electromagnetic pumps                                      |          | outgassing                          |
| 17.1            | intermittency   |              | . fuel pumps   | ۰        | o pumping o                         |
|                 | solitary waves  |              | . jet pumps  |          | purification                        |
|                 | ,,,   |              | . rams (pumps)   |          | relieving                           |
| nultruci        | ion   |              | . vacuum pumps   | ۰        | separation                          |
| pultrusi<br>DEF | Process of pulling continuous lengths   |              | condensation pumps   |          | venting                             |
|                 | impregnated fiber through a shaped,   |              | ion pumps  |          | 4:                                  |
|                 | die to produce lengths of reinforced  |              | molecular pumps  | purifica |                                     |
| plastic.        | and to produce tengine or teninetee   |              | . viscopumps   | UF<br>GS | purifiers<br>purification           |
| GS              | forming techniques  | DT           | . windpowered pumps  | GS       | . air purification                  |
|                 | . extruding   | RT           | bellows<br>centrifugal compressors                           | RT       | aeration                            |
|                 | pultrusion  |              | ejectors   | 131      | antiseptics                         |
| RT              | casting   |              | feed systems   |          | beneficiation                       |
|                 | composite structures  |              | heat pumps   |          | chemical sterilization              |
|                 | dies  |              | hydraulic equipment  |          | cleaning                            |
|                 | epoxy matrix composites   |              | impellers  |          | crystallization                     |
|                 | fiber composites  |              | injectors  |          | decontamination                     |
|                 | glass fiber reinforced plastics<br>hot working                                      |              | lubrication systems  |          | demineralizing                      |
|                 | polymer matrix composites   |              | materials handling   |          | desalinization                      |
|                 | preimpregnation   |              | packings (seals)   |          | dissipation                         |
|                 | pressing (forming)  |              | pipelines  |          | distillation<br>elimination         |
|                 | resin matrix composites   |              | preburners   |          | elution                             |
|                 | ·   | ۰            | pumping<br>siphons   |          | enrichment                          |
| pulveriz        | ina   |              | stators  |          | flushing                            |
| USE             | grinding (comminution)  |              | turbomachinery   |          | getters                             |
| 002             | grinaing (committation)   |              | vaneless diffusers   |          | pasteurizing                        |
|                 |   |              | vanoroso amacoro   |          | polynuclear organic compounds       |
| pumice<br>DEF   | A light colored vegicular glassy rock   | punche       | d cards  |          | potable water                       |
|                 | A light-colored, vesicular, glassy rock<br>ly having the composition of a rhyolite. | DEF          | Cards on which a pattern of holes or                         |          | purging                             |
| GS              | rocks   |              | used to represent data.                                      |          | purity                              |
| 00              | . igneous rocks   | GS           | cards  |          | rectification                       |
|                 | pumice  |              | . punched cards  | ۰        | ∘ reduction                         |
| RT              | abrasives   | RT           | computer storage devices                                     |          | reduction (chemistry)               |
|                 | obsidian  |              | data recorders   |          | refining                            |
|                 | powder (particles)  |              | data recording   | _        | scavenging                          |
|                 | soils   |              | data storage readers   | 0        | sewage treatment                    |
|                 |   |              | 1000013  |          | solvent extraction                  |
| pump ii         | npellers  | punche       | d tapes  |          | spacecraft sterilization            |
| GS              | rotating bodies   | DEF          | Tapes on which a pattern of holes or                         |          | sterilization                       |
|                 | . rotors  |              | used to represent data.                                      |          | sublimation                         |
|                 | impellers   | RT           | automatic typewriters  |          | ultrapure metals                    |
|                 | pump impellers  |              | computer storage devices                                     |          | upgrading                           |
| RT              | centrifugal compressors   |              | data recording   |          | washing                             |

water treatment power amplifiers . pyridine nucleotides phosphorus compounds zone melting PWM (modulation) . phosphates USE pulse duration modulation ... pyridine nucleotides purifiers USE purification pycnometers RT density (mass/volume) DEF Compounds that contain a sixmembered heterocyclic ring containing one nipurines pylon mounting trogen atom. GS organic compounds aerodynamic configurations GS bases (chemical) . cyclic compounds aircraft structures . pyridines . . heterocyclic compounds columns (supports) organic compounds . . . purinés rigid mounting . cyclic compounds . . . . adenines structural members . . heterocyclic compounds . . . . xanthines supports . . pyridines . . . . . caffeine wind tunnel models RT Karl Fischer reagent . . . . . guanines piperidine . . . . . uric acid pylons quinoline GS supports pylons purity pyridoxine columns (supports) clarity vitamin B 6 structural members concentration (composition) organic compounds struts . cyclic compounds contaminants towers contamination . . heterocyclic compounds . . pyridoxine decontamination Pyramid Lake (NV) vitamins dilution GS lakes fineness . pyridoxine Pyramid Lake (NV) pollution Nevada pyrimidines potable liquids water management purification DEF Compounds that contain a sixwater resources membered heterocyclic ring containing nitrogen quality trace contaminants atoms in the 1 and 3 positions. pyramidal bodies GS organic compounds ultrapure metals RT ∞ bodies water pollution . cyclic compounds pyramids . . heterocyclic compounds reentry vehicles ... pyrimidines purposes . . . . alloxan pyramids RT goals . . . . thymidine geometry GS . . . . thymine . Euclidean geometry . . . . uracil pursuit tracking . . polyhedrons . pyramids tracking (position) GS pyrites frustums pursuit tracking GS chalcogenides pyramidal bodies infrared tracking . sulfides pursuit-evasion games . pyrites pyranometers radar tracking iron compounds DEF Actinometers which measure the comsatellite interceptors bined intensity of incoming direct solar radiation and diffuse sky radiation. The pyranometers . pyrites minerals pursuit-evasion games consist of a recorder and a radiation sensing . pyrites (added October 1998) sulfur compounds element which is mounted so that it views the GS games . sulfides entire sky. Sometimes called solarimeters. GS measuring instruments pursuit-evasion games . . pyrites differential games . radiation measuring instruments Pyroceram (trademark) evasive actions . . actinometers interception GS ceramics . . pyranometers Pyroceram (trademark) optimal control photometers pursuit tracking glass radiometers trajectory optimization . Pyroceram (trademark) sky radiation zero sum games pyroelectricity pyrazines GS electrical properties Compounds that contain a sixpushbroom sensor modes pyroelectricity membered heterocyclic ring containing nitrogen Spacecraft instrument arrangements thermodynamic properties atoms in the 1 and 4 positions. in which large numbers of detectors comprising . thermophysical properties GS pyrazines linear arrays are swept by the forward motion of . pyroelectricity . azines the spacecraft to attain increased fidelity and piezoelectricity . . cyanurates high sensitivity in the data captured. polarization (charge separation) . . cyanuric acid modes GS . . meclizine . pushbroom sensor modes pyrogen . . methylene blue arrays gases . . phenothiazines electro-optics flammable gases image processing . pyrogen Pyrenees Mountains (Europe) linear arrays RT torches GS landforms photodiodes mountains pyrographalloy . Pyrenees Mountains (Europe) composite materials Andorra pushing pyrolytic graphite France RT ∞ force refractory materials propulsion Spain pyroheliometers pyrenes push-pull amplifiers DEF Actinometers which measure the in-GS organic compounds DEF Amplifiers in which there are two identensity of direct solar radiation, consisting of a . hydrocarbons radiation sensing element enclosed in a casing which is closed except for a small aperture, tical signal branch circuits so as to operate in . . pyrenes

Pyrex (trademark)

GS

pyridine nucleotides

USE borosilicate glass

nucleotides

organic compounds

through which the direct solar rays enter, and a

recorder unit. Used for heliometry.

. heliometers

GS

heliometry
measuring instruments

. . pyroheliometers

770

balanced amplifiers.

amplifiers

UF

GS

RT

phase opposition and with input and output connections each balanced to ground. Used for

balanced amplifiers

phase modulation

push-pull amplifiers

|          | optical equipment                       | refining   | thermites                                    |
|----------|---|--|--|
|          | . heliometers                           | sintering  |  |
|          | pyroheliometers                         | sublimation  | pyroxenes                                    |
|          | telescopes                              | thermochemistry  | DEF A group of dark, rock-forming silicate   |
|          | . heliometers                           | ·  | minerals.                                    |
|          | pyroheliometers                         | pyrometers   | GS chalcogenides                             |
|          | • •                                     | DEF Instruments that measure high  | h tem-                                       |
| pyrohy   | drolysis                                | perature, e.g., of molten lavas, by elect  | rical or pyroxenes                           |
|          | Decomposition by the action of heat     | optical means.   | enstatte                                     |
| and wat  | er vapor.                               | GS measuring instruments   | minerals                                     |
| GS       | chemical reactions                      | . temperature measuring instrur  | ments pyroxenes                              |
|          | . pyrohydrolysis                        | pyrometers   | enstatte                                     |
| RT       | pyrolysis                               | radiation pyrometers   | silicon compounds                            |
|          |   | thermocouple pyrometers  | . silicates                                  |
| pyrolys  | is                                      | RT temperature measurement   | pyroxenes                                    |
| DEF      | Chemical decomposition by the action    |  | enstatite                                    |
| of heat. |   | pyrometry  | RT eclogite                                  |
| GS       | chemical reactions                      | USE temperature measurement  | igneous rocks                                |
|          | . cracking (chemical engineering)       | OOL temperature measurement  | regolith                                     |
|          | pyrolysis                               | and the state of t | rocks  |
|          | . thermal decomposition                 | pyrophoric materials   | soils  |
|          | pyrolysis                               | RT explosives  | pyroxylin                                    |
|          | decomposition                           | flammability   | USE cellulose nitrate                        |
|          | . cracking (chemical engineering)       | hypergolic rocket propellants  | OSL Centrose intrate                         |
|          | pyrolysis                               | igniters   | pyrrhotite                                   |
|          | . thermal decomposition                 | ignition temperature   | DEF A common reddish-brown to bronze         |
|          | pyrolysis                               | ∞ materials  | hexagonal mineral.                           |
| RT       | ablation                                | metal combustion   | GS chalcogenides                             |
|          | endothermic reactions                   | solid propellant ignition  | . sulfides                                   |
|          | exothermic reactions                    | spontaneous combustion   | pyrrhotite                                   |
|          | pyrohydrolysis                          |  | troilite                                     |
|          | thermal absorption                      | pyrophyllite   | iron compounds                               |
|          | thermal degradation                     | DEF A white, greenish, gray, or brow   |  |
|          | thermal instability                     | losilicate mineral that resembles talc.  | troilite                                     |
|          | thermogravimetry                        | GS aluminum compounds  | minerals                                     |
|          | thermogravimetry                        | . aluminum silicates   | . pyrrhotite                                 |
| nyrolyt  | c graphite                              | pyrophyllite   | troilite                                     |
| UF       | pyrographalloy                          | minerals   | sulfur compounds                             |
| GS       | carbonaceous materials                  | . pyrophyllite   | . sulfides                                   |
| 00       | . graphite                              | silicon compounds  | pyrrhotite                                   |
|          | pyrolytic graphite                      | . silicates  | troilite                                     |
|          | minerals                                | aluminum silicates   | TTT Wome                                     |
|          | . graphite                              | pyrophyllite   | pyrroles                                     |
|          | pyrolytic graphite                      | RT aluminum oxides   | DEF Compounds that contain a five            |
|          | pyrolytic materials                     |  | membered heterocyclic ring containing one ni |
|          | . pyrolytic graphite                    | pyrotechnics   | trogen atom.                                 |
| DT       | heat shielding                          | UF fireworks   | GS organic compounds                         |
| IXI      | rieat silleluling                       | GS pyrotechnics  | . cyclic compounds                           |
| nyrolyt  | c materials                             | . HMX  | heterocyclic compounds                       |
| GS       | pyrolytic materials                     | RT ammunition  | azoles                                       |
| GS       | 1,                                      |  | pyrroles                                     |
| рт       | . pyrolytic graphite ablative materials | bombs (ordnance)<br>chemical fuels   | carbazoles                                   |
| RT       |   |  | RT indoles                                   |
|          | ceramics                                | double base propellants  | methoxy systems                              |
| 0        | o materials                             | explosives   | polypyrroles                                 |
|          | refractory coatings                     | ∞ flares   | thiophenes                                   |
|          | refractory materials                    | grenades   | D  |
|          | tell. res                               | illuminating   | Pyrrones (trademark)                         |
|          | tallurgy                                | incendiary ammunition  | GS nitrogen compounds                        |
| RT       | aerothermochemistry                     | initiators (explosives)  | . nitrogen polymers                          |
|          | alloying                                | ordnance   | Pyrrones (trademark)                         |
|          | chlorination                            | plastic propellants  | RT ∞ polymers                                |
| 0        | converters                              | projectiles  | pyruvates                                    |
|          | heat balance                            | RDX  | RT organic liquids                           |
|          | metal working                           | ∞ rockets  | 2.3  |
| 0        | o metallurgy                            | ∞ signals  |  |

#### Q devices ... quadrants . quadrupole networks magnetic mirrors RT quadrupoles plasma pinch quadraphase shift keying A linear accelerator having four longizeta pinch USE quadrature phase shift keying tudinal vanes in its resonating cavity, which are shaped to create RF electric fields that simulta-Q factors quadratic equations high Q neously accelerate, bunch, and focus the UF algebra GS charged particle beam. quality factors . nonlinear equations RT ∞ dipoles figure of merit . . quadratic equations nuclear quadrupole resonance analysis (mathematics) resonant vibration polarity spectral resolution . real variables tunina . . nonlinear equations quail missile quadratic equations GS decoys Q switched lasers field theory (algebra) quail missile DEF A device for producing very short quadratic equations missiles. (about 30 ns)intense laser pulses by enhancing $RT \, {\it equations}$ . air to surface missiles the storage and dumping of electronic energy in polynomials . quail missile and out of the lasing medium. countermeasures GS stimulated emission devices quadratic programming turbojet engines . lasers optimization . . pulsed lasers . mathematical programming qualifications . . Q switched lasers . quadratic programming RT certification argon lasers research contractors carbon dioxide lasers quadratic programming education chemical lasers RT ∞ programming experience gas lasers fitness ruby lasers quadrature amplitude modulation personality tests semiconductor lasers (added August 1991) personnel solid state lasers Amplitude modulation in which the sig-∞ tests nal is 90 degrees out of phase with the carrier Q values (nuclear physics) which it modulates. qualitative analysis GS value QAM (modulation) DEF An analysis in which some or all of the Q values (nuclear physics) GS coding components of a sample are identified. fusion reactors . signal encoding GS chemical tests storage rings (particle accelerators) . . amplitude modulation . chemical analysis thermonuclear reactions ... quadrature amplitude . qualitative analysis tokamak devices modulation analytical chemistry modulation electrophotometry QAM (modulation) . amplitude modulation flame spectroscopy USE quadrature amplitude modulation . . quadrature amplitude gas analysis inductively coupled plasma mass modulation Qatar spectrometry mass spectrometers phase shift keying (added February 1989) quadrature phase shift keying GS nations microanalysis Qatar neutron activation analysis quadrature approximation RT Asia quantitative analysis USE quadratures spectroscopic analysis QBO (climatology) quadrature phase shift keying (added May 1991) (added May 2001) quality quasi-biennial oscillation quality GS QPSK . environmental quality quadraphase shift keying . . air quality GS USE quantum chromodynamics coding . . water quality . signal encoding . riding quality QH-50 helicopter UF Dash helicopter . . phase modulation RT accuracy . . . phase shift keying adequacy quadrature phase shift keying DSN helicopter Gyrodyne DSN-3 helicopter Gyrodyne military aircraft appearance keying computer systems performance . phase shift keying concentration (composition) quadrature phase shift keying Gyrodyne aircraft consistency modulation QH-50 helicopter contaminants . phase modulation V/STOL aircraft controllability . . phase shift keying . rotary wing aircraft durability quadrature phase shift keying . . helicopters evaluation binary phase shift keying . . . military helicopters figure of merit quadrature amplitude modulation QH-50 helicopter fineness satellite transmission flight characteristics QHE (electronics) ∞ grade (added July 2000) quadratures impurities DEF Elongations of 90 deg., usually speci-USE quantum Hall effect ∞ materials tests fied as east or west in accordance with the ∞ performance direction of the body from the sun. The moon is **QPSK** pollution USE quadrature phase shift keying a quadrature at first and last quarters. The precision situation of two periodic quantities differing by a product development quarter of a cycle. Used for quadrature approxi-QSO (radio sources) . purity mation. USE quasars reliability quadrature approximation ∞ resistance RT circular orbits Quadrantid meteoroids specifications orbit calculation GS celestial bodies stability orbital mechanics . meteoroid showers ∞ tests orbits . Quadrantid meteoroids total quality management space mechanics . meteoroids upgrading . . Quadrantid meteoroids validity quadrupole lenses variability

USE magnetic lenses

quadrupole networks

GS networks

quality control

An aggregate of functions designed to

insure adequate quality in manufactured prod-

772

quadrants

GS

geometry
. Euclidean geometry

. . analytic geometry

ucts by initial critical study of engineering design, materials, processes, equipment, and workmanship followed by periodic inspection and analysis. Used for reliability control. reliability control quality control . Taguchi methods . total quality management accelerated life tests acceptability aircraft reliability assurance average Bayes theorem burn-in certification chemical tests circuit reliability component reliability confidence confidence limits construction ∞ control correlation correlation coefficients covariance data sampling degrees of freedom electrical properties electronic equipment tests error detection codes errors estimates estimating experiment design extrapolation hypotheses infrared inspection inspection least squares method linear prediction low temperature tests Mann-Whitney-Wilcoxon U test mean median (statistics) mode (statistics) nondestructive tests normalizing (statistics) operations research optimization orthogonal functions orthogonality precision probability theory process control (industry) ∞ processes product development production management products random errors random sampling range (extremes) regression analysis regression coefficients reliability reliability engineering sampling scheduling sequential analysis spacecraft reliability specifications standard deviation standardization standards static tests statistical analysis statistical correlation statistical distributions statistical tests structural reliability ∞ systems task complexity

tasks ∞ tests

> tolerances (mechanics) ultrasonic flaw detection

value engineering

variability

variance (statistics) quality factors USE Q factors quantiles The values that mark frequency distribution interval boundaries that are determined by arranging a set of N observations in order of magnitude and marking off equal parts (N/P) of the total population P. statistical analysis mathematical models statistical distributions ∞ statistics symmetry quantitative analysis GS chemical tests . chemical analysis quantitative analysis quantity USE amount quantization

analytical chemistry chromatography electrophotometry gas analysis gravimetry iodimetry Karl Fischer reagent microanalysis neutron activation analysis polarography qualitative analysis radiochemical separation spectroscopic analysis volumetric analysis

quantiles

Kjeldahl method

. . Van Slyke method

USE measurement quantizer USE counters quantum amplifiers

amplifiers GS quantum amplifiers

lasers

light amplifiers two-wavelength lasers ultrashort pulsed lasers ultraviolet lasers

quantum cascade lasers

(added February 2003)

Semiconductor injection lasers in which light is generated by electrons making optical transitions between subbands within one band of a semiconductor heterostructure; these subbands result from the quantization of this motion in coupled quantum wells.

GS electronic equipment . solid state devices

. . semiconductor devices

. . . semiconductor lasers

... quantum cascade lasers

. . solid state lasers

. quantum cascade lasers stimulated emission devices . lasers

. . injection lasers

quantum cascade lasers

. . semiconductor lasers

. quantum cascade lasers

. . solid state lasers

. quantum cascade lasers

heterojunctions infrared lasers quantum well lasers quantum wells

quantum chemistry

physical chemistry

quantum chemistry

RT ∞ chemistry

molecular orbitals nuclear chemistry quantum mechanics

quantum chromodynamics

A gauge theory describing the interaction between quarks and gluons. Used for color (particle physics) and QCD.

color (particle physics) QCD

field theory (physics) . gauge theory

. quantum chromodynamics RT ∞ dynamics gluons leptons particle interactions quantum mechanics quark models guarks standard model (particle physics) string theory strong interactions (field theory) ∞ theories

quantum communication

(added March 2000)
DEF Any form of communication that depends on coherent quantum-mechanical effects (quantum interference or quantum entanglement) to transmit, protect or authenticate information, or to perform distributed computational tasks

GS telecommunication . communication . . quantum communication communication theory

optical communication quantum computation

quantum computation

(added March 2000)

Any form of information processing that depends on coherent quantum-mechanical effects (quantum interference or quantum entanglement) to perform computational tasks.

ÚF quantum computing

GS computation

quantum computation

quantum communication quantum computers quantum cryptography quantum mechanics **Turing machines** 

quantum computers

(added March 2000)
DEF Devices capable of performing quantum computations. There are many proposals for the physical basis of quantum computers. The 0 and 1 of a quantum bit (i.e., qubit) could be the ground and excited states of an atom in a linear ion trap; the polarizations of photons interacting in an optical cavity; or the excess of one nuclear spin state over another in a liquid sample in an NMR machine.

GS data processing equipment

. computers

quantum computers

quantum computation

quantum computing (added March 2000)

quantum computation

quantum counters

GS measuring instruments

. counters

. . radiation counters

. . . quantum counters . radiation measuring instruments

. . radiation counters

. . quantum counters

RT squid (detectors)

quantum cryptography (added March 2000)

Any form of cryptography that depends for its security on coherent quantum-mechanical effects (quantum interference or quantum entanglement).

ĞS cryptography

quantum cryptography

computer information security quantum computation

#### quantum dots

(added October 1997)

DEF Small (30 nm to 1 micron) metal or semiconductor structures that hold a discrete number of electrons; the number of electrons can be altered by modifying the electrostatic environment of the dot.

GS nanostructures (devices)

quantum dots

electron tunneling nanotechnology nonlinear optics quantum electronics quantum wells quantum wires semiconductor devices semiconductor lasers

### quantum efficiency

A measure of the efficiency of conversion or utilization of light or some other form of energy.

energy conversion efficiency energy technology heterojunction devices laser outputs solar cells volt-ampere characteristics

#### quantum electrodynamics

electrodynamics

. quantum electrodynamics quantum mechanics

quantum electrodynamics

electromagnetic fields Feynman diagrams field theory (physics) Landau-Ginzburg equations resonance fluorescence self consistent fields

#### quantum electronics

DEF The branch of electronics that essentially deals with lasers and laser devices which require quantum theory for their exact descrip-

 $RT \, {\it \infty} \, electronics$ lasers nanofabrication nanostructures (devices) nanotechnology nanowires quantum dots quantum Hall effect quantum mechanics quantum theory quantum wires resonant tunneling tunnel junctions

quantum generators

USE stimulated emission devices

#### quantum Hall effect

(added July 2000)

DEF Phenomenon where the Hall resistance of a two-dimensional electron system at low temperature and high magnetic fields, becomes quantized as h/(e-squared)j, where h is Plank's constant, e is the electronic charge, and j is either an integer or a rational fraction.

QHE (electronics)

galvanomagnetic effects GS

. Hall effect

# . quantum Hall effect

electron gas Hall resistance magnetic effects quantum electronics semiconductor devices superlattices

#### quantum mechanics

quantum mechanics

Pauli exclusion principle quantum electrodynamics

atomic interactions

Bethe-Salpeter equation

Born approximation density functional theory

Dyson theory

electromagnetic interactions

energy distribution

Fermi-Dirac statistics

function space

group velocity

Hylleraas coordinates light-cone expansion

mechanics (physics)

Orr-Sommerfeld equations

phase velocity

quantum chemistry

quantum chromodynamics

quantum computation quantum electronics

quantum optics

Racah coefficient

relativity

squeezed states (quantum theory)

statistical mechanics

strangeness U spin space

wave packets

#### quantum numbers

DEF Anumber assigned to one f the various values of a quantized quantity in its descrete range. The quantum numbers arise from the mathematics of the wave equations. When the quantity has a quantum, the quantum number is the number of such quantums. A state may be described by giving a sufficient set of compatible numbers. In the cutomary forumlations, each quantum number is either an interger (which may be positive, negative, or zero) or an odd half-integer.

angular momentum electrons energy levels nuclear spin ∞ numbers

parity selection rules (nuclear physics)

### quantum optics

atom optics nonlinear optics ∞ optics physical optics quantum mechanics quantum theory

# quantum statistics

Bose-Einstein statistics RT bosons

Fermi-Dirac statistics

fermions

many body problem

superfluidity

Thomas-Fermi model

# quantum theory

DEF The theory first stated by Max Planck (before the Physical Society of Berlin on December 14, 1900) that all electromagnetic radiation is emitted and absorbed in quanta, each of magnitude hv, h being the Planck constant and v the frequency of the radiation. Used for Wightman theory.

Wightman theory theoretical physics GS quantum theory . Bohr theory

angular momentum RT atomic theory

charm (particle physics) de Broglie wavelengths

Dirac equation

electroweak model

elementary particles

emission

energy levels field theory (physics)

flavor (particle physics)

forbidden transitions ground state

Hamiltonian functions Klein-Dunham potential

magnetic monopoles

Mandelstam representation nuclear physics

nuclear spin

parity perturbation theory

photons physical optics

Plancks constant quantum electronics

quantum optics

∞ radiation radiation laws

Schumann-Runge bands

squeezed states (quantum theory) standard model (particle physics)

statistical distributions

statistical mechanics string theory

supergravity supersymmetry

∞ theories

wave equations

# quantum well infrared photodetectors

(added August 2007)

DEF Infrared photodetectors made from semiconductor materials which contain one or more quantum wells.

QWIP

electronic equipment

. solid state devices

. . semiconductor devices

#### . . . quantum well infrared photodetectors

measuring instruments

. optical measuring instruments

. . photometers

#### ... quantum well infrared photodetectors

. radiation measuring instruments

. . actinometers

. . . radiometers

. . . . infrared detectors

. . . . quantum well infrared photodetectors

. . infrared instruments

. . . infrared detectors

. . . . quantum well infrared photodetectors

. . photometers

### ... quantum well infrared photodetectors

optical equipment

. optical measuring instruments

. . photometers

### . . . quantum well infrared photodetectors

RT focal plane devices gallium arsenides quantum wells thermal mapping thermography

# quantum well lasers

(added September 1993)

electronic equipment

. solid state devices

. . semiconductor devices

. . . semiconductor lasers

. . . . quantum well lasers . . solid state lasers

. quantum well lasers

stimulated emission devices . lasers

. . semiconductor lasers

. quantum well lasers

. . solid state lasers . . quantum well lasers

RT energy gaps (solid state)

heterojunction devices . elementary particles . radio sources (astronomy) indium gallium arsenides . . hypothetical particles . quasars indium phosphides . quarks active galactic nuclei laser materials flavor (particle physics) active galaxies quantum cascade lasers blazars gluons quantum wells extragalactic radio sources instantons waveguide lasers partons galaxies quantum chromodynamics gravitational collapse quantum wells quark models irregular galaxies DEF Effective potential wells created by a pulsars quark parton model minimum in the conduction band or a maximum radio astronomy in the valence band that arises when a smaller quarries radio bursts band-gap semiconductor is sandwiched be-USE mines (excavations) radio emission tween a larger band-gap semiconductor. radio galaxies GS potential energy quartic equations radio jets (astronomy) . electric potential GS algebra radio stars quantum wells . nonlinear equations stars . . photoexcitation . . quartic equations x ray spectra band structure of solids analysis (mathematics) binding energy . real variables Quasat . . nonlinear equations blue shift (QUASAR SATELLITE) quartic equations artificial satellites conduction bands . scientific satellites conduction electrons RT ∞ equations . . astronomical satellites energy bands energy gaps (solid state) .. Quasat quartiles probability density functions observatories gaps heterojunction devices statistical analysis . astronomical observatories statistical distributions . . astronomical satellites heterojunctions quantum cascade lasers . . Quasat quartz European space programs quantum dots DEF Crystalline silica, an important rock-NASA programs quantum well infrared photodetectors radio astronomy forming mineral. quantum well lasers GS chalcogenides radio telescopes quantum wires . oxides spaceborne astronomy resonant tunneling . . dioxides very long base interferometry valence . . . silicon dioxide . . . . quartz quasi-biennial oscillation quantum wires . . . . . coesite (added October 1997) GS nanostructures (devices) (added May 2001) DEF A natural, quasi-periodic (2-2. 5 years) . . . . . stishovite . . silicon oxides oscillation of the zonal (east-west) stratospheric . nanowires . . . silicon dioxide winds over the equatorial region. The quasi-. quantum wires biennial oscillation (QBO) affects stratospheric . . . . quartz nanotechnology . . . . coesite temperatures and trace gases (including ozone) nonlinear optics ... stishovite and influences the response of the stratosphere quantum dots to volcanic eruptions. minerals quantum electronics QBO (climatology) UF . quartz quantum wells oscillations . quasi-biennial oscillation . . coesite GS semiconductor devices . stishovite semiconductor lasers silicon compounds variations . periodic variations Quaoar . silicon oxides . quasi-biennial oscillation (added October 2002) . . silicon dioxide annual variations DEF Kuiper Belt object about 1,250 km in . . . quartz . . . . coesite atmospheric circulation diameter and about 43 Astronomical Units from atmospheric temperature . . . stishovite the Sun. GS celestial bodies abrasives climatology . asteroids felsite el Nino Quaoar flint equatorial atmosphere . trans-Neptunian objects igneous rocks ozone . Quaoar rocks Southern Oscillation asteroid belts sands tropical meteorology zonal flow (meteorology) Kuiper belt soils solar system quartz crystals quasilinearity quark models crystals USE nonlinearity quartz crystals models . quark models frequency control quasi-particles . quark parton model frequency stability USE elementary excitations flavor (particle physics) radio transmitters quasi-steady states silicon dioxide particle theory equilibrium flow quantum chromodynamics quartz lamps fluid dynamics quarks lighting equipment nonequilibrium flow standard model (particle physics) . luminaires steady flow . . quartz lamps steady state creep quark parton model A theoretical model which summarizes uniform flow our understanding of how protons and neutrons quartz transducers are made up of the fundamental subparticles GS transducers quasi-stellar radio sources USE quasars called quarks. . quartz transducers models piezoelectric crystals . quark models pressure sensors quaternary alloys quark parton model GS allovs hadrons quartzite . quaternary alloys

GS rocks

quasars

UF

GS

. metamorphic rocks

QSO (radio sources)

celestial bodies

quasi-stellar radio sources

. . quartzite

GS

quarks

inelastic scattering

nuclear models

leptons

partons

quarks

GS particles

RT

alloying

DEF A period (sub-era) within the Cenozoic

era, beginning about two million years ago and extending to the present. It is divided into two

epochs--Holocene and Pleistocene.

Quaternary period (added May 2001)

### quaternions

GS Cenozoic Era

. Quaternary period

. . Holocene epoch

Pleistocene epoch

geochronology Tertiary Period

#### quaternions

classical mechanics number theory

#### Quebec

GS nations

. Canada

. . Quebec

#### quefrencies

DEF In cepstral analysis, the frequency of periodic ripples in a spectra of a signal that contains echoes. Quefrencies are expressed in cycles per hertz or in seconds.

frequencies

. acoustic frequencies

. . audio frequencies

... quefrencies

cepstra

#### ∞ quenching

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) extinguishing

quenching (atomic physics) quenching (cooling) rapid quenching (metallurgy)

#### quenching (atomic physics)

Phenomena in which very strong electric fields cause the orbit of an electron or atom to precess rapidly so the average magnetic moment associated with its orbit angular momentum is reduced to zero.

gyration GS

. precession

#### quenching (atomic physics)

angular momentum laser cooling magnetic moments particle spin

∞ physics

 $\, \infty \, \text{quenching} \,$ 

#### quenching (cooling)

Rapid cooling as in metallurgy. Used for flame quenching.

UF flame quenching

GS cooling

quenching (cooling)

. rapid quenching (metallurgy)

baths combustion

dipping

extinguishing hardening (materials)

heat treatment microstructure

∞ quenching submerging

supercooling supersaturation

thermomechanical treatment

water immersion

#### query languages

DEF Command languages used to search and retrieve information.

GS languages

. command languages

. . query languages human-computer interface

information retrieval

#### Questol aircraft

(added December 1990)

(EXPERIMENTAL STOL TRANSPORT RESEARCH AIRPLANE) experimental STOL transport rsch

UF airplane

research vehicles GS

. research aircraft

Questol aircraft

V/STOL aircraft

. short takeoff aircraft

. Questol aircraft

RT ∞ aircraft

NASA programs

#### queueing theory

ARPA computer network bunching mathematical models operations research statistical analysis stochastic processes

 $\infty$  theories

#### quiet engine program

GS

programs
. NASA programs

quiet engine program

aircraft engines engine noise

iet aircraft noise jet engines

noise reduction

#### QuikSCAT satellite

(added May 2003)

DEF A remote sensing satellite designed to measure wind speed and direction over the global oceans and to monitor coastal zones and polar regions. Launched in June 1999.

artificial satellites

. scientific satellites

QuikSCAT satellite

ocean dynamics scatterometers wind measurement

# quinoline

GS bases (chemical)

. quinoline

nitrogen compounds

. quinoline

organic compounds

. quinoline

alkaloids drugs pyridines

#### quinones

(added November 1992)

benzoguinone chinone.

organic compounds

quinones

RT ketones

### quinoxalines

DEF A group of heterocyclic compounds consisting of a benzene ring condensed with a diazine ring.

GS organic compounds

. hydrocarbons

. . quinoxalines

plastics

. synthetic resins

. . thermoplastic resins

... quinoxalines

resins

. synthetic resins

. . thermoplastic resins

. . quinoxalines

RT polymerization

# quotients

RT dividing (mathematics)

**QWIP** 

(added August 2007)

quantum well infrared photodetectors

|          | nae Borealis stars                            |         | ∘ storage  |          | display devices  |
|----------|---|---------|--|----------|--|
| UF       | RCB stars                                     |         | supports   |          | distance measuring equipment                           |
| GS       | celestial bodies                              |         |  |          | electromagnetic radiation                              |
|          | . stars                                       | racks ( | gears)   |          | flight instruments                                     |
|          | supergiant stars                              | GS      | gears  |          | instrument landing systems                             |
|          | R Coronae Borealis stars                      |         | racks (gears)  |          | lunar communication                                    |
|          | variable stars                                | RT «    | ∘ racks  |          | microwave absorption                                   |
|          | irregular variable stars                      |         | translational motion                                 |          | navigation instruments                                 |
|          | R Coronae Borealis stars                      |         |  |          | night flights (aircraft)                               |
| RT       | carbon stars                                  | racon b | eacons   |          | pulse compression                                      |
|          | cool stars                                    | USE     | radar beacons  |          | radar detection  |
|          | dust  |         |  |          | scatterometers   |
|          | stellar envelopes                             | radant  |  |          | hoarbara   |
|          | stellar mass ejection                         | GS      | antennas   |          | bsorbers   |
| R5D air  | oroft   |         | . directional antennas                               | GS       | absorbers (materials) . radar absorbers                |
|          | C-54 aircraft                                 |         | radar antennas                                       |          |  |
| USE      | C-54 aircraft                                 |         | radant   | RT       | antiradar coatings                                     |
| R7V air  | craft   |         | radar equipment                                      | IXI      | countermeasures electromagnetic absorption             |
|          | C-121 aircraft                                |         | . radar antennas                                     |          | microwave absorption                                   |
| 002      | 0 121 411 01411                               |         | radant   |          | stealth technology                                     |
| RA-28 6  | engine  | RT      | radar filters  |          | Steam technology                                       |
| GS       | engines                                       |         | radomes  | radar al | ltimeters  |
|          | air breathing engines                         |         | slot antennas  | USE      | radio altimeters                                       |
|          | gas turbine engines                           |         | waveguide antennas                                   |          |  |
|          | jet engines                                   |         |  | radar a  | ntennas  |
|          | turbojet engines                              | radar   |  | GS       | antennas   |
|          | RA-28 engine                                  |         | ed January 1991)                                     |          | . directional antennas                                 |
|          | internal combustion engines                   |         | A method, system or technique of us-                 |          | radar antennas   |
|          | gas turbine engines                           |         | med, reflected, and timed radio waves                |          | radant   |
|          | jet engines                                   |         | cting, locating, or tracking objects (such           |          | radar equipment  |
|          | turbojet engines                              |         | ets), for measuring altitude, etc., in any of        |          | radar antennas   |
|          | RA-28 engine                                  |         | activities, such as air traffic control or           |          | radant   |
|          | . turbine engines                             | 0       | e. The electronic equipment or appara-               | RT       | aircraft antennas                                      |
|          | gas turbine engines                           |         | ed to generate, transmit, receive, and               |          | diplexers  |
|          | jet engines                                   |         | to display radio scanning or locating                |          | dipole antennas  |
|          | turbojet engines                              |         | a radar set. Used for radio detection and            |          | doghouses (electronics)                                |
|          | RA-28 engine                                  | ranging |  |          | high resolution coverage antennas                      |
|          |   | UF      | radio detection and ranging                          |          | horn antennas  |
| rabbits  |   | GS      | radar  |          | lens antennas  |
| GS       | animals                                       |         | . airborne radar                                     |          | microwave antennas                                     |
|          | . vertebrates                                 |         | airborne surveillance radar                          |          | parabolic antennas                                     |
|          | mammals                                       |         | . coherent radar                                     |          | radomes  |
|          | rodents                                       |         | . continuous wave radar                              |          | reflector antennas                                     |
|          | rabbits                                       |         | . Doppler radar                                      |          | Schwarzschild antennas                                 |
|          |   |         | multistatic radar                                    |          | sidelobe reduction                                     |
|          | coefficient                                   |         | pulse Doppler radar                                  |          | slot antennas  |
| RT       | angular momentum                              |         | monopulse radar                                      |          | steerable antennas                                     |
|          | coefficients                                  |         | Shuttle Imaging Radar                                |          |  |
|          | coupling                                      |         | . ground penetrating radar                           |          | pproach control  |
|          | quantum mechanics                             |         | . imaging radar                                      |          | RAPCON (control)                                       |
|          | transformations (mathematics)                 |         | Shuttle Imaging Radar                                | GS       | approach control                                       |
| roon for | atoro   |         | . incoherent scatter radar                           |          | . radar approach control                               |
| race fac |   |         | EISCAT radar system (Europe)                         |          | ground based control                                   |
| IXI      | anthropology culture (social sciences)        |         | . infrared radar                                     |          | . air traffic control                                  |
|          | ethnic factors                                |         | . landing radar                                      |          | radar approach control                                 |
|          | human beings                                  |         | . meteorological radar<br>. moving target indicators |          | traffic control  |
|          | human performance                             |         | . multispectral radar                                |          | . air traffic control                                  |
|          | races (anthropology)                          |         |  | БТ       | . radar approach control                               |
|          | social factors                                |         | . optical radar differential absorption lidar        | RT       | airborne radar approach                                |
|          | sociology                                     |         | . pulse radar  |          | aircraft guidance                                      |
| 00       | variable                                      |         | pulse Doppler radar                                  |          | approach indicators                                    |
|          |   |         | monopulse radar                                      |          | <ul> <li>control instrument landing systems</li> </ul> |
| races (a | anthropology)                                 |         | Shuttle Imaging Radar                                |          | landing aids   |
| RT       | American Indians                              |         | . radar measurement                                  |          | landing instruments                                    |
|          | anthropology                                  |         | . range and range rate tracking                      |          | landing radar  |
|          | culture (social sciences)                     |         | . satellite-borne radar                              |          | radarscopes  |
|          | human beings                                  |         | . search radar                                       |          | surveillance radar                                     |
|          | minorities                                    |         | over-the-horizon radar                               |          | Surveillance radar                                     |
|          | race factors                                  |         | . secondary radar                                    | radar a  | stronomy   |
|          |   |         | . space based radar                                  |          | The study of celestial bodies within the               |
| racetra  | cks (particle accelerators)                   |         | Shuttle Imaging Radar                                |          | stem by means of radiation originating                 |
| RT ∝     | accelerators                                  |         | . surveillance radar                                 |          | th but reflected from the body under                   |
|          | electromagnets                                |         | airborne surveillance radar                          | observa  |  |
|          | magnetic fields                               |         | Cobra Dane (radar)                                   | GS       | astronomy  |
|          | particle acceleration                         |         | multistatic radar                                    |          | . radar astronomy                                      |
|          | particle accelerators                         |         | . synthetic aperture radar                           | RT       | radio astronomy  |
|          | particle trajectories                         |         | Shuttle Imaging Radar                                | •••      |  |
|          |   |         | side-looking radar                                   | radar at | ttenuation   |
| racks    |   |         | . tracking radar                                     | GS       | attenuation  |
| SN       | (USE OF A MORE SPECIFIC TERM IS               |         | Cobra Dane (radar)                                   |          | . wave attenuation                                     |
|          | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW) |         | . TRADEX radar system                                |          | radar attenuation                                      |
| RT       | racks (frames)                                |         | . Venus orbiting imaging radar                       | RT       | atmospheric attenuation                                |
|          | racks (gears)                                 |         | (spacecraft)   |          | electromagnetic absorption                             |
|          |   | RT      | aircraft instruments                                 |          | electromagnetic wave transmission                      |
| racks (f | rames)  |         | cancellation circuits                                |          | radio attenuation                                      |
| RT ∝     | racks   |         | circumlunar communication                            |          | sidelobe reduction                                     |
| ~        | shelves                                       |         | collision avoidance                                  |          | signal transmission                                    |

transmission wave propagation

#### radar beacons

Beacons transmitting characteristic DFF signals on radar frequency, permitting crafts to determine their bearings and sometimes the range of the beacons. Used for racon beacons.

racon beacons GS navigation aids . beacons

.. radar beacons

. . . discrete address beacon system radar equipment

radar beacons

. discrete address beacon system

aircraft communication compasses position (location) solar compasses transponders

#### radar beams

GS beams (radiation) radar beams beamforming

pencil beams

# radar clutter maps

GS maps

. radar clutter maps

#### radar corner reflectors

luneberg lenses GS radar equipment radar reflectors

. radar corner reflectors

reflectors

. radar reflectors . radar corner reflectors

reflector antennas retroreflectors

#### radar cross sections

DEF The ratios of power returned in a radar echo to power received by the target reflecting the signal.

RT angels (radar)

computational electromagnetics

∞ cross sections

low observable reentry vehicles moving target indicators stealth technology

#### radar data

RT ∞ data

microwave photography video data

### radar detection

GS detection

#### radar detection

coherent radar continuous wave radar digital radar systems

Doppler radar

electronic countermeasures

electronic warfare multistatic radar optical radar

over-the-horizon radar

radar

radar target scatter site program

radarscopes resolution cell

satellite-borne radar

search radar signal detection

space-time adaptive processing

stealth technology

radar direction finders

USE radio direction finders

radar displays

USE radarscopes

# radar echoes

UF radar reflections GS echoes

. radar echoes

. . angels (radar)

. . clutter

. . lunar radar echoes . . solar radar echoes

Venus radar echoes airborne radar

auroral echoes chaff ghosts

glint targets

#### radar equipment

#### GS radar equipment

doghouses (electronics)

. radar antennas

. . radant

. radar beacons

. . discrete address beacon system

. radar filters

. radar receivers

. radar reflectors

. . radar corner reflectors

. radar transmitters

. radarscopes

. . plan position indicators

retroreflectors

airborne equipment airborne radar

airport surface detection equipment automated radar terminal system

digital radar systems

diplexers

distance measuring equipment

Doppler radar ∞ equipment

iammers look angles (electronics)

onboard equipment parabolic antennas

radio equipment radomes range finders

servomechanisms synthetic aperture radar

transponders

#### radar filters

electromagnetic wave filters

electric filters . . radar filters

radar equipment

. radar filters

RT ∞ filters FIR filters

microwave filters radant

radio filters

space-time adaptive processing

waveguide filters

#### radar geology

DEF The application of imaging radar to geologic problems.

GŠ geology

radar geology

geological surveys ground penetrating radar Mars Reconnaissance Orbiter Shuttle Imaging Radar

# radar homing missiles

Radar-following missiles designed to attack radar transmitters.

missiles GS

radar homing missiles

military technology missile control missile systems target recognition

# radar imagery

imagery . radar imagery GS

airborne radar change detection image analysis imaging radar imaging techniques infrared radar lunar equator

Magellan spacecraft (NASA) Priroda module radar maps resolution cell Shuttle Imaging Radar side-looking radar x ray imagery

# radar maps

GS maps

. radar maps airborne radar

digital elevation models map matching guidance meteorological charts radar imagery

#### radar measurement

GS radar

#### radar measurement

altimetry

differential absorption lidar distance measuring equipment

∞ measurement radio altimeters rangefinding satellite altimetry

#### radar navigation

navigation GS

. radar navigation

air navigation air traffic control aircraft guidance all-weather air navigation

automatic flight control celestial navigation collision avoidance dead reckoning

distance distance measuring equipment

Doppler navigation Doppler radar Doppler-Fizeau effect ground based control inertial navigation interplanetary navigation

map matching guidance radarscopes

radio navigation satellite navigation systems space navigation surface navigation Tacan

radar networks DEF A series of tracking stations each of which can individually or jointly track a target by utilizing an interchange of radar information.

Used for multiradar tracking. multiradar tracking

networks

. tracking networks . radar networks

Doppler radar

polystation doppler tracking system tracking stations

radar observation USE radar tracking

# radar photography

imagery

. photography

. . multispectral photography . radar photography

black and white photography microwave photography

radarscopes spectral reconnaissance ultraviolet photography

DEF The distance from a radar to a target as measured by the radar. The maximum distance at which a radar set is effective in detecting targets.

GS distance

. radar range

continuous wave radar optical slant range over-the-horizon radar radio range

#### radar receivers

GS radar equipment radar receivers

receivers

. radar receivers

airborne radar digital radar systems electromagnetic noise microwave sensors radio receivers repeaters

#### radar reception

signal reception

radar reception

RT radio reception ∞ receiving

sidelobe reduction

radar reflections

USE radar echoes

#### radar reflectors

DEF Devices capable of or intended for reflecting radar signals.

GS radar equipment

radar reflectors

. radar corner reflectors

reflectors

. radar reflectors

. . radar corner reflectors

parabolic antennas parabolic reflectors radio echoes reflector antennas sidelobe reduction

#### radar resolution

GS resolution

. radar resolution

angular resolution display devices

high resolution coverage antennas

sidelobe reduction spectral resolution

RT

radar scanning
DEF The action or process of moving or directing a searching radar beam.

GS

scanning
radar scanning
radar scanning
conical scanning
digital radar systems

agitar radar systems frequency scanning meteorological radar multiple beam interval scanners panoramic scanning

radio tracking side-looking radar surveillance

### radar scattering

GS scattering

radar scattering

EISCAT radar system (Europe) incoherent scatter radar incoherent scattering radar target scatter site program scatterometers

### radar signatures

signatures

radar signatures

Cobra Dane (radar) detection imagery microwave signatures signature analysis stealth technology target recognition

# radar target scatter site program

RATSCAT program UF

GS programs . radar target scatter site program

targets

. radar targets

. radar target scatter site program

radar detection radar scattering

#### radar targets

Objects which reflect a sufficient amount of a radar signal to produce an echo signal on the radar screen.

GS targets

. radar targets

. radar target scatter site program

airborne radar digital radar systems early warning systems multiple target tracking radial velocity

radar tracking UF radar observation GS tracking (position) . radar tracking

automated radar terminal system Ballistic Missile Early Warning System

compensatory tracking digital radar systems Doppler radar early warning systems meteorological radar monopulse radar moving target indicators multiple target tracking pursuit tracking

radio tracking range and range rate tracking rangefinding

rawinsondes search radar slewing spacecraft tracking

surveillance radar threat evaluation tracking radar

transponder control group

## radar transmission

GS transmission

. electromagnetic wave transmission

. radar transmission . signal transmission

. radar transmission

atmospheric attenuation

digital radar systems EISCAT radar system (Europe)

electromagnetic pulses radio transmission radome materials wave attenuation wave propagation

#### radar transmitters

GS radar equipment . radar transmitters transmitters

. radar transmitters

DEF A civilian remote sensing satellite that will be polar orbiting and is jointly being developed by Canada and the United Kingdom with NASA providing the launch. In addition to a synthetic aperture radar, it may carry other instruments such as the Advanced Along Track Scanning Radiometer (AATSR) and the Advanced Radar Altimeter (ARA)/Ocean Wave Spectrometer (OWS). Launch is planned for 1994

GS Canadian spacecraft

Radarsat

RT Canadian space program synthetic aperture radar

DEF The cathode ray oscilliscopes used in radar sets, which display the received signal in such a manner as to indicate things such as range or bearing. Used for radar displays.

UF radar displays

GS display devices

. radarscopes

. . plan position indicators

radar equipment

radarscopes

. plan position indicators aircraft guidance indicating instruments microwave imagery microwave photography radar approach control radar detection radar navigation radar photography surveillance radar

#### radial distribution

GS distribution (property) . radial distribution Rayleigh distribution star distribution wind profiles

radial drainage patterns

USE drainage patterns

#### radial flow

fluid flow GS radial flow axial flow centrifugal compressors

diffusion flow geometry gas flow heat transmission two dimensional flow

#### radial velocity

DEF In radar, that vector component of the velocity of a moving target that is directed away from or toward the ground station.

GS rates (per time)

. radial velocity

velocity

radial velocity

astronomical spectroscopy blue shift Doppler effect radar targets red shift

velocity measurement

### radiance

SN (DIRECTIONAL EMISSION RATE PER UNIT AREA OF RADIATION)
DEF In radiometry, a measure of the intrinsic radiant intensity emitted by a radiator in a given direction. It is the irradiance (radiant flux density) produced by radiation from the source upon a unit surface area oriented normal to the line between source and receiver, divided by the solid angle subtended by the source at the receiving surface. It is assumed that the medium between the radiator and receiver is perfectly transparent; therefore radiance is independent of attenuation between source and receiver.

electromagnetic properties

. optical properties . radiance

rates (per time) . flux density

. . radiant flux density

. radiance

black body radiation brightness emissivity emittance glare

incandescence ∞ intensity irradiance lumens luminosity neutron flux density solar flux density

transmissometers

visibility

# radiancy

SN (EMISSION RATE PER UNIT AREA OF RADIATION)

DEF The rate of radiant energy emission solar heating radiation belts from a unit area of a source in all the radial radiation chemistry directions of the overspreading hemisphere. radiant intensity radiation counters GS rates (per time) USE radiant flux density radiation damage . flux density radiation detectors . . radiant flux density radiation distribution . . radiancy (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN radiation dosage electron flux density radiation effects illuminance radiation hardening DEF The process by which energy is emitluminous intensity ted or transferred in the form of photons or radiation hazards neutron flux density electromagnetic waves. Used for radiant energy radiation injuries particle flux density and radiation emission. radiation laws proton flux density radiant energy radiation measurement solar flux density radiation emission radiation measuring instruments alpha particles Radiation Meteoroid spacecraft antenna radiation patterns radiant cooling radiation pressure artificial radiation belts GS cooling radiation protection atmospheric radiation radiant cooling radiation pyrometers background noise RT radiative heat transfer radiation shielding background radiation surface cooling base heating beams (radiation) black body radiation radiation sickness radiation sources radiation spectra radiant energy radiation therapy USE radiation Cerenkov radiation radiation tolerance circumsolar radiation radiation transport coherent acoustic radiation radiation trapping radiant flux density coherent electromagnetic radiation (DYNES/CM-SEC AS DISTINGUISHED FROM RADIATION PRESSURE--DYNES/SQ CM) The rate of radiant energy emission radiative transfer coherent radiation radioactivity continuous radiation radiology corpuscular radiation reflected waves cosmic rays from a unit area of a source in all the radial relic radiation directions of the overspreading hemisphere. cyclotron radiation resonance fluorescence Used for power density (electromagnetic), radidiffuse radiation self absorption Earth radiation budget experiment ant intensity, and radiation intensity. short wave radiation power density (electromagnetic) radiant intensity elastic waves silicon radiation detectors electromagnetic noise sky radiation electromagnetic radiation radiation intensity solar corpuscular radiation electron radiation rates (per time) solar radiation emission . flux density Solar Radiation 1 satellite radiant flux density extraterrestrial radiation Solar Radiation 3 satellite extreme ultraviolet radiation . . . irradiance solar radiation shielding . . . . illuminance solar wind far infrared radiation . . . . solar constant sound waves . . . lumens far ultraviolet radiation spectral emission flux (rate) . . . luminous intensity standing waves flux density ... illuminance stellar radiation galactic radiation . . . . luminance Stokes law of radiation gamma rays . . . particle flux density stratosphere radiation geophysics . . . . electron flux density synchrotron radiation gravitational waves . neutron flux density temperature effects harmonic radiation .... proton flux density terrestrial radiation heating . . . radiance thermal radiation incident radiation . . . radiancy TRAP program infrared radiation ... solar flux density tropospheric radiation inner radiation belt . solar constant ultrasonic radiation interstellar radiation BL Lacertae objects ultraviolet radiation ion cyclotron radiation brightness Volterra equations ionizing radiation brightness distribution x ray sources CERES (experiment) irradiation Kirchhoff law of radiation dosimeters light (visible radiation) emissivity long wave radiation radiation absorption emittance longitudinal waves GS energy absorption far fields lunar radiation . radiation absorption flux (rate) gamma ray bursts Lyman alpha radiation . . electromagnetic absorption Lyman beta radiation . . . auroral absorption laser outputs microwaves ... gamma ray absorption luminosity modulated continuous radiation infrared absorption maser outputs monochromatic radiation microwave absorption mass to light ratios near infrared radiation multiphoton absorption post-blast nuclear radiation near ultraviolet radiation ... photoabsorption ∞ radiation nonthermal radiation polar cap absorption radiation counters nuclear medicine ... ultraviolet absorption radiation pressure nuclear radiation . x ray absorption radio spectra scattering functions nucleon potential . . molecular absorption outer radiation belt . self absorption solar reflectors RT ∞ absorption sound intensity photosynthetically active radiation absorption cross sections view effects atmospheric attenuation plane waves planetary radiation gamma ray absorptiometry plasma radiation Golay detector cells radiant heating gray gas interstellar extinction radiation heating polarized electromagnetic radiation heating polarized radiation . radiant heating post-blast nuclear radiation material absorption RT ∞ energy pulsed radiation neutron absorbers nuclear reactions gas heating quantum theory radiant flux density photon absorptiometry ∞ radiation

radiant heating

radiation absorption

radiation

radiation chemistry

radiative heat transfer

radiative transfer

stopping power

#### Radiation and Meteoroid satellite

GS artificial satellites

- . geophysical satellites
- Radiation and Meteoroid satellite

#### radiation belts

Envelopes of charged particles Used for geomagnetically trapped particles and Van Allen radiation belts.

geomagnetically trapped particles
Van Allen radiation belts

GS particles

- . charged particles
- . . magnetically trapped particles . . . radiation belts
- ... artificial radiation belts
- .... inner radiation belt . . . . outer radiation belt
- ... proton belts
- corpuscular radiation
- ... radiation belts
- ... artificial radiation belts
- . inner radiation belt ... outer radiation belt
- . proton belts
- . trapped particles
- ... magnetically trapped particles
- ... radiation belts
- ... artificial radiation belts
- .... inner radiation belt
- . . . . outer radiation belt ... proton belts
- RT aerospace environments

∞ belts

cosmic rays

Earth atmosphere

Earth magnetosphere

electron density (concentration)

electron precipitation electron trajectories

electrons

elementary particles

entrapment

exosphere extraterrestrial radiation ionizing radiation

ionospheric drift magnetic fields

mirror point plasmas (physics)

proton precipitation

protons

radiation

solar radiation

trapping

upper atmosphere

# radiation chemistry

DEF The branch of chemistry concerned with the chemical effects, including decomposition, of energetic radiation or particles of matter.

#### GS radiation chemistry

- . photodecomposition
- . photodissociation
- . photolysis . radiolysis
- RT ∞ chemistry

electromagnetic radiation

∞ radiation

radiation absorption

# radiation counters

DEF Instruments used for detecting or measuring moving subatomic particles by a counting process. Used for ionization counters, particle counters, and particle detectors.

ionization counters

particle counters

particle detectors measuring instruments

. counters

# . . radiation counters

- ... Cerenkov counters
- . . . electron counters . . . Geiger counters
- ... neutron counters
- ... neutron spectrometers

... particle telescopes

. . . proportional counters

. . . quantum counters

scintillation counters

. . . spark chambers

. radiation measuring instruments

#### . . radiation counters

Cerenkov counters

... electron counters

. . . Geiger counters

... neutron counters

. neutron spectrometers

. . . particle telescopes

proportional counters

... quantum counters

scintillation counters

. . spark chambers

anticoincidence detectors bubble chambers channel multipliers

cloud chambers

coincidence circuits dosimeters

electrostatic probes

fluence

gas discharge tubes

hodoscopes ion traps (instrumentation)

ionization chambers ionizing radiation nuclear emulsions particle flux density

proton flux density radiant flux density

scintillating fibers spectrometers

# radiation damage

GS damage

# radiation damage

. . laser damage radiation effects

. radiation damage

laser damage

RT ionizing radiation ∞ radiation

single event upsets

# radiation detectors

GS measuring instruments

. radiation measuring instruments

. . radiation detectors

... dosimeters

. threshold detectors (dosimeters)

Golay detector cells

. . silicon radiation detectors

 $RT \, \infty \, detectors$ 

Geiger counters

health physics

multi-anode microchannel arrays

satellite-borne instruments

Vela satellites

# radiation distribution

radiation fields

distribution (property)

radiation distribution

. . antenna radiation patterns . sidelobes

. . diffraction patterns

. . . Kossel pattern

. . . rainbows corpuscular radiation

elastic waves electromagnetic radiation

field theory (physics) flux density

null zones

∞ patterns

∞ radiation vertical distribution wave dispersion

#### radiation dosage

The amount of radiation absorbed by a material, system, or tissue in a given amount of time; usually measured in units as roentgen. Used for radiation exposure.

UF radiation exposure

GS dosage

radiation dosage RT

biological effects dosimeters exposure health physics irradiation

∞ radiation

single event upsets

### radiation effects

# GS radiation effects

- radiation effects
  . radiation damage
  . laser damage
  . radiation injuries
  . radiolysis

. single event upsets apoptosis biological effects

blackout (propagation)

Bragg curve CRRES (satellite)

damage dosimeters

∞ effects electron radiation

fallout gamma rays health physics

hematopoiesis irradiation

mechanical properties mutagenesis.

neutrons nuclear explosion effect nuclear radiation nuclear vulnerability particle tracks

physiological effects post-blast nuclear radiation Poynting-Robertson effect

preserving · radiation radioactive contaminants space based radar

sterilization effects

radiation emission

USE radiation radiation exposure

USE radiation dosage

radiation fields USE radiation distribution

radiation hardening hardening (systems)
. radiation hardening

antennas electronic equipment

# $\infty$ radiation

radiation hazards

GS hazards

radiation hazards dermatitis

fallout

dosimeters electromagnetic radiation

flux density hazardous materials hazardous wastes health physics

ionizing radiation laser damage mutations nuclear explosion effect nuclear explosions

nuclear radiation

occupational diseases operational hazards o radiation

radioactive contaminants radioactive materials radioactive wastes radioactivity reactor safety

space weather .... visible infrared spin scan solar flux density radiometer solar radiation radiation heating .... quantum well infrared solar wind USE radiant heating photodetectors stellar winds ... infrared interferometers radiation injuries . . . infrared spectrometers radiation protection GS injuries . . . . filter wheel infrared GS protection radiation injuries spectrometers . radiation protection . . radiation shielding radiation effects ... infrared spectrophotometers radiation injuries . solar radiation shielding . . photometers burns (injuries) ... electrophotometers antiradiation drugs cysteamine health physics . . . ultraviolet spectrometers ∞ radiation . . . high dispersion spectrographs health physics . . . . Total Ozone Mapping ∞ radiation radiation intensity Spectrometer synchrotron radiation USE radiant flux density . . . quantum well infrared thermal protection photodetectors visors radiation laws ... ultraviolet spectrophotometers GS laws . radiation counters radiation pyrometers . radiation laws ... Cerenkov counters GS measuring instruments . . Kirchhoff law of radiation ... electron counters . temperature measuring instruments . . Stefan-Boltzmann law . . pyrometers . . . Geiger counters . Stokes law of radiation . radiation pyrometers . . . neutron counters electromagnetic radiation RT bolometers . neutron spectrometers quantum theory particle telescopes circumsolar telescopes optical pyrometers proportional counters □ radiation quantum counters radiation measurement temperature measurement scintillation counters RT dosage thermocouple pyrometers spark chambers dosimeters . . radiation detectors irradiation radiation resistance ... dosimeters ∞ measurement USE radiation tolerance . threshold detectors (dosimeters) ∞ radiation Golay detector cells sensitometry radiation shielding ... silicon radiation detectors nuclear shielding . riometers radiation measuring instruments protection RT ∞ detectors photoelectromagnetic detectors . radiation protection Earth radiation budget experiment photosensors radiation shielding health physics radiation meters . . solar radiation shielding ionization chambers measuring instruments shielding monitors . radiation shielding . radiation measuring instruments nuclear emulsions . . actinometers . solar radiation shielding optical measuring instruments . . . infrared spectrometers absorbers (materials) ∞ radiation . . . . filter wheel infrared attenuators safety devices spectrometers Boral solar instruments ... pyranometers electromagnetic absorption Vela satellites ... radiometers electromagnetic shielding view effects . . . . Dicke radiometers gamma rays ∞ insulated structures . . . . infrared detectors radiation medicine . . . . . FLIR detectors magnetic shielding USE nuclear medicine . . . . infrared radiometers neutron absorbers . . . . . . Advanced Very High neutron flux density Radiation Meteoroid spacecraft Resolution Radiometer neutrons RT meteoroids . . . . . infrared scanners nuclear reactors □ radiation . . . . . visible infrared spin scan protons ∞ spacecraft radiometer radiation spacecraft configurations .... quantum well infrared radio frequency shielding photodetectors reactor materials radiation meters . . microwave radiometers reflectors USE radiation measuring instruments . . . . . Advanced Microwave Sounding safety devices Unit space based radar radiation noise . . . . passive L-band radiometers spacecraft shielding USE electromagnetic noise .... pressure modulator radiometers stopping power . . spectroradiometers Tower Shielding Reactor 2 radiation pressure .... MISR (radiometry) (DYNES/SQ CM AS DISTINGUISHED FROM RADIANT FLUX DENSITY--DYNES/CM-SEC) . MODIS (radiometry) radiation sickness . solar spectrometers DEF A syndrome following intense acute ... spectroheliographs DEF Pressure exerted upon any material exposure to ionizing radiation. It is characterized . spectrophotometers body by electromagnetic radiation incident upon by nausea and vomiting a few hours after expo-.... infrared spectrophotometers sure. Further symptoms include bloody diarultraviolet spectrophotometers GS pressure rhea, hemorrhage under the skin (and inter-... ultraviolet detectors . radiation pressure nally), epilation (hair falling out), and a decrease ... ultraviolet spectrometers . . electron pressure in blood cell level. .... high dispersion spectrographs . . lumens GS diseases Total Ozone Mapping . . luminous intensity radiation sickness Spectrometer . . . illuminance antiradiation drugs ... ultraviolet spectrophotometers . . . luminance dermatitis . . . x ray detectors . sound pressure health physics . . bolometers baroclinic waves ∞ radiation Bessel-Bredichin theory . . Ebert spectrometers radiopathology electrostatic probes comet tails Fabry-Perot spectrometers corpuscular radiation radiation sources hodoscopes elastic waves coherent sources . . infrared instruments electromagnetic radiation radiation sources . . . infrared detectors Kohoutek comet . monochromators . . . . FLIR detectors particle flux density . neutron sources perturbation point sources . . . . infrared radiometers ... Advanced Very High corpuscular radiation photophoresis

radiant flux density

∞ radiation

duochromators

electromagnetic radiation

Resolution Radiometer

. . . . . infrared scanners

electron sources transport properties thermosiphons extragalactic radio sources radicals generators radiation trapping GS radicals heat sources Confinement of radiation with a mag-DEF . amino radical . formyl ions interstellar masers netic field. ion sources RT argon . free radicals light sources Earth magnetosphere . . hydroxyl radicals excitation . methylidyne metastable state radio sources (astronomy) . vanadyl radical plasma physics . vinyl radical radioactive materials ∞ radiation RT ∞ roots sound generators ∞ sources radiative heat transfer radii spectral counterparts (astronomy) GS radiative transfer UF radius x ray stars radiative heat transfer GS dimensions transmission . radii . heat transmission radiation spectra . . Larmor radius . . heat transfer GS spectra geometry . . radiative heat transfer radiation spectra . Euclidean geometry concentrators . . absorption spectra . . radii convective heat transfer . . . Fraunhofer lines . Larmor radius . . . Herzberg bands . . . telluric lines cooling fins circles (geometry) heat radiators circumferences . . electromagnetic spectra infrared reflection diameters gamma ray spectra near infrared radiation lines (geometry) radiant cooling infrared spectra radio frequencies radiant heating . . . line spectra segments satellite temperature Balmer series spacecraft radiators D lines radio altimeters Stefan-Boltzmann law electronic spectra Devices that measure the altitude of a surface cooling Fraunhofer lines craft above the terrain by measuring the elapsed thermohydraulics . . H lines time between transmission of radio waves from Trombe walls . H alpha line the craft and the reception of the same waves view effects . H beta line reflected from the terrain. Used for radar altim-. H gamma line eters. K lines radiative lifetime radar altimeters . Lyman spectra RT decay flight instruments GS Paschen series half life . radio altimeters Rydberg series measuring instruments telluric lines radiative recombination . distance measuring equipment . . altimeters . . . radio spectra recombination reactions . radio altimeters ... microwave spectra . electron recombination . . . Raman spectra RT aircraft instruments . radiative recombination . . . stellar spectra . electron-ion recombination automatic pilots solar spectra . radiative recombination instrument landing systems ... UBV spectra airglow radar measurement . . . ultraviolet spectra atomic recombination carrier injection . . . vibrational spectra radio antennas . . . visible spectrum deionization antennas GS . radio antennas . . . x ray spectra lightning . . emission spectra . . microwave antennas . . . horn antennas RT astronomical spectroscopy radiative transfer Cosmic Background Explorer satellite . . . lens antennas GS radiative transfer energy spectra . . . rectennas . radiative heat transfer mass spectra . . spacetennas atmospheric correction noise spectra radio equipment cosmic rays plasma spectra electromagnetic radiation energy transfer . radio antennas ∞ radiation . . microwave antennas ... horn antennas extraterrestrial radiation . . . lens antennas galactic radiation radiation therapy . . . rectennas heat transfer radiotherapy . . spacetennas heat transmission GS therapy aircraft antennas . radiation therapy interstellar radiation backfire antennas near infrared radiation cancer directional antennas planetary atmospheres medical science omnidirectional antennas polarized electromagnetic radiation pathology reception diversity radiant heating reflector antennas ∞ radiation rhombic antennas radiation transport satellite antennas radiation tolerance radio bursts Schwarzschild antennas radiation resistance radio stars UF two reflector antennas radiosensitivity solar radiation whip antennas GS sensitivity stellar atmospheres radiation tolerance stellar radiation radio astronomy tolerances (physiology) Surface Meteorology and Solar The study of celestial objects through radiation tolerance Energy project observation of radiofrequency waves emitted or human tolerances Surface Radiation Budget project reflected by these objects. Specifically, the study irradiation of celestial objects by measurement of the ra- ∞ radiation ∞ radiators diation emitted by them in the radiofrequency (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Any sources of radiant energy, espe-∞ resistance range of the electromagnetic spectrum. tolerances (mechanics) GS astronomy . radio astronomy radiation transport cially electromagnetic radiation. Devices that astronomical interferometry DEF The study of radiation from emission to dissipate the heat from something as from water astronomical observatories astronomical spectroscopy or oil, not necessarily by radiation only. absorption.

antennas

heat radiators

sound transducers

exploding wires

radiative transfer

∞ radiation

brightness distribution brightness temperature

coronal holes

#### Radio Astronomy Explorer satellite

cosmic microwave background ... omnidirectional radio ranges lunar communication radiation ... self calibrating omnirange Marisat 1 satellite airport beacons extragalactic radio sources Marisat satellites extraterrestrial radio waves Beacon Collision Avoidance System mobile communication systems gamma ray astronomy homing devices **MSAT** instrument landing systems NASCOM network linear polarization landing aids point to point communication Maffei galaxies ∞ markers Project SETI Michelson interferometers night flights (aircraft) pulse communication phase switching interferometers **ORBIS** radiotelephones ORBIS CAL satellite reentry communication pulsars satellite communication quasars ranges (facilities) ship to shore communication Quasat solar compasses radar astronomy space communication radio jets (astronomy) radio broadcasting spacecraft communication USE broadcasting SAS-1 telegraph systems SAS-2 telemetry radio bursts SAS-3 television systems GS bursts transoceanic communication ∞ science . radio bursts underground communication Sunyaev-Zeldovich effect . . solar radio bursts very high frequency radio equipment vocoders . . . type 2 bursts Very Large Array (VLA) voice communication ... type 3 bursts very long base interferometry type 4 bursts Very Long Baseline Array (VLBA) radio control type 5 bursts Remote control of a pilotless airplane, rocket, or spacecraft by means of radio signals that activate controlling devices.

GS remote control

radio control electromagnetic radiation Radio Astronomy Explorer 2 . radio waves USE Explorer 49 satellite . . extraterrestrial radio waves . . . radio bursts Radio Astronomy Explorer B USE Explorer 49 satellite .... solar radio bursts aircraft control . . . . . type 2 bursts automatic control . . . . . type 3 bursts Radio Astronomy Explorer satellite ∞ control GS artificial satellites . . . . . type 4 bursts Deep Space Instrumentation Facility . . . . . type 5 bursts . scientific satellites ground based control . . radio emission . . Explorer satellites missile control Radio Astronomy Explorer ... radio bursts spacecraft control satellite . . . . solar radio bursts . . . . . type 2 bursts radio detection and ranging . . . . type 3 bursts radio attenuation USE radar . . . . type 4 bursts radio signal attenuation . . . . type 5 bursts GS attenuation radio direction finders . wave attenuation emission Radio receiving sets, together with as-. radio attenuation . radio emission sociated equipment, used to determine the diatmospheric attenuation . . radio bursts rection from which a radio signal is transmitted. electromagnetic absorption electromagnetic wave transmission ground effect (communications) . . . solar radio bursts Used for direction finders (radio) and radar ... type 2 bursts ... type 3 bursts ... type 4 bursts ... type 5 bursts direction finders. direction finders (radio) UF radar attenuation radar direction finders signal transmission display devices transhorizon radio propagation extraterrestrial radiation . position indicators transmission extraterrestrial radio waves . radio direction finders wave propagation . . radio bursts measuring instruments . . . solar radio bursts . indicating instruments Radio Attenuation Measurement project . . . . type 2 bursts . . position indicators RAM project . . . . type 3 bursts . radio direction finders GS . . . . type 4 bursts programs navigation aids . projects ... type 5 bursts . beacons Radio Attenuation Measurement RT ∞ disturbances . . radio direction finders project pulsars . navigation instruments quasars . radio direction finders radio auroras radiative transfer RT aircraft equipment atmospheric radiation solar radio emission compasses . auroras stellar radiation direction finding . radio auroras flight instruments RT ∞ disturbances radio communication gyrocompasses homing homing devices ionospherics GS telecommunication nightglow . radio communication solar activity . . radio relay systems radiogoniometers ... code division multiple access VHF omnirange navigation radio beacons ... time division multiple access DEF Transmitters together with their asso-. . radio telegraphy radio echoes ciated equipment, that emit signals enabling the . . radio telemetry UF radio reflection determination, by means of suitable receiving . . . pulse frequency modulation GS echoes equipment, of direction, distance, or position telemetry . radio echoes angels (radar) auroral echoes with respect to the beacon. Used for radio . telephony RT ranges. access control radio ranges aircraft communication ghosts GS navigation aids blackout (propagation) Harvard Radio Meteor Project . beacons broadcasting infrared reflection . . radio beacons circumlunar communication lunar echoes . . . omnidirectional radio ranges code division multiplexing radar reflectors communication equipment . . self calibrating omnirange ultraviolet reflection radio equipment communication networks Fleet Satellite Communication System . radio transmitters radio electronics . . radio beacons frequency division multiple access RT ∞ electronics ... omnidirectional radio ranges frequency division multiplexing . . . self calibrating omnirange ground-air-ground communication radio emission

interplanetary communication

interstellar communication

land mobile satellite service

GS electromagnetic radiation

. . radio emission

. radio waves

transmitters

. radio transmitters

... radio beacons

|          | CN emission                                   | tunable filters   | signal fading   |
|----------|---|---|---|
|          | hydroxyl emission radio bursts                | radio frequencies   | radio frequency ion thrustor engines                  |
|          | solar radio bursts                            | DEF Frequencies at which coherent electro-                | USE <b>RIT engines</b>                                |
|          | type 2 bursts                                 | magnetic radiation of energy is useful for com-           | OOL KIT engines                                       |
|          | type 3 bursts                                 | munications purposes.                                     | radio frequency noise                                 |
|          | type 4 bursts                                 | GS frequencies  | USE electromagnetic noise                             |
|          | type 5 bursts                                 | . radio frequencies                                       | -   |
|          | solar radio emission                          | extremely low frequencies                                 | radio frequency radiation                             |
|          | solar radio bursts                            | high frequencies  | USE radio waves                                       |
|          | type 2 bursts                                 | intermediate frequencies                                  | radia francianas abialdina                            |
|          | type 3 bursts                                 | low frequencies   | radio frequency shielding                             |
|          | type 4 bursts                                 | very low frequencies                                      | GS shielding  |
|          | type 5 bursts                                 | microwave frequencies                                     | . electromagnetic shielding radio frequency shielding |
|          | emission                                      | C band  | RT radiation shielding                                |
|          | . radio emission                              | extremely high frequencies                                | spacecraft shielding                                  |
|          | CN emission                                   | P band  | Spacecraft sinciding                                  |
|          | hydroxyl emission                             | superhigh frequencies                                     | radio galaxies  |
|          | radio bursts                                  | ultrahigh frequencies                                     | GS celestial bodies                                   |
|          | solar radio bursts                            | P band  | . galaxies  |
|          | type 2 bursts                                 | very high frequencies                                     | active galaxies                                       |
|          | type 3 bursts                                 | P band RT audio frequencies                               | radio galaxies  |
|          | type 4 bursts                                 | •   | . radio sources (astronomy)                           |
|          | type 5 bursts                                 | carrier frequencies<br>radii                              | extragalactic radio sources                           |
|          | solar radio emission                          | rauli   | radio galaxies  |
|          | solar radio bursts type 2 bursts              | radio frequency discharge                                 | RT active galactic nuclei                             |
|          | type 2 bursts                                 | GS electric current                                       | blazars   |
|          | type 3 bursts                                 | . electric discharges                                     | disk galaxies   |
|          | type 5 bursts                                 | . radio frequency discharge                               | Maffei galaxies                                       |
| RT       | extragalactic radio sources                   | RT electrodeless discharges                               | quasars   |
|          | extraterrestrial radio waves                  | electron emission   | radio horizons  |
|          | quasars                                       | ring discharge  | DEF Loci or points at which direct rays from          |
|          | radio jets (astronomy)                        |   | a radio transmitter become tangential to the          |
|          | 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,     | radio frequency heating                                   | Earth's surface.                                      |
| radio e  | quipment                                      | GS heating  | GS horizon  |
| GS       |   | radio frequency heating                                   | . radio horizons                                      |
| 00       | . radio antennas                              | RT induction heating                                      | RT horizon scanners                                   |
|          | microwave antennas                            | plasma heating  |   |
|          | horn antennas                                 | VASIMR (propulsion system)                                | radio interference                                    |
|          | lens antennas                                 | radia franconari impadance probac                         | USE radio frequency interference                      |
|          | rectennas                                     | radio frequency impedance probes GS measuring instruments |   |
|          | spacetennas                                   | . impedance probes  | radio interferometers                                 |
|          | radio filters                                 | radio frequency impedance                                 | DEF Interferometers operating at radio fre-           |
|          | . radio receivers                             | probes  | quencies. Radio interferometers are used in           |
|          | superheterodyne receivers                     | RT impedance measurement                                  | radio astronomy and in satellite tracking.            |
|          | transmitter receivers                         | ion probes  | GS measuring instruments                              |
|          | whistler recorders                            | microwave probes  | . interferometers                                     |
|          | . radio telescopes                            | plasma probes   | radio interferometers                                 |
|          | kilometer wave orbiting telescope             | Francis Francis   | RT astrophysics Orion (radio interferometry network)  |
|          | Very Large Array (VLA)                        | radio frequency interference                              | very long base interferometry                         |
|          | Very Long Baseline Array (VLBA)               | DEF Degredation of the reception of a                     | very long base interferencity                         |
|          | . radio transmitters                          | wanted signal caused by radio frequency distur-           | radio jets (astronomy)                                |
|          | radio beacons                                 | bance.  | DEF Jets of energetic particles occurring in          |
|          | omnidirectional radio ranges                  | UF radio interference                                     | radio galaxies and quasars usually emitted from       |
|          | self calibrating omnirange radiometeorographs | GS electromagnetic interference                           | the nuclear (active) region of the extragalactic      |
|          | radiometeorographs<br>radiosondes             | radio frequency interference                              | radio source.   |
|          | ionosondes                                    | blackout (propagation)                                    | GS celestial bodies                                   |
|          | rawinsondes                                   | polar radio blackout                                      | . radio sources (astronomy)                           |
|          | radiotelephones                               | chirp   | extragalactic radio sources                           |
|          | sonobuoys                                     | chirp signals electromagnetic noise                       | radio jets (astronomy)                                |
|          | transmitter receivers                         | atmospherics  | particles   |
|          | . reception diversity                         | ionospherics  | . charged particles                                   |
|          | spacecraft antennas                           | dawn chorus   | plasma jets   |
|          | . transponders                                | hiss  | radio jets (astronomy) RT astrophysics                |
|          | . very high frequency radio equipment         | sudden enhancement of                                     | energetic particles                                   |
| RT       | airborne equipment                            | atmospherics  | extraterrestrial radiation                            |
|          | antennas                                      | whistlers   | extraterrestrial radio waves                          |
|          | broadcasting                                  | cosmic noise  | galactic nuclei                                       |
|          | communication equipment                       | ionospheric noise   | galactic radio waves                                  |
|          | crystal filters                               | whistlers   | quasars   |
|          | cylindrical antennas                          | shot noise  | radio astronomy                                       |
|          | jammers<br>near fields                        | white noise   | radio emission  |
|          | onboard equipment                             | thermal noise   |   |
|          | radar equipment                               | cochannel interference                                    | radio meteorology                                     |
|          |   | ionospheric cross modulation                              | GS meteorology  |
| radio fi | Iters   | RT clutter cross coupling                                 | . radio meteorology                                   |
| GS       | electromagnetic wave filters                  | electromagnetic compatibility                             | RT atmospherics                                       |
| 33       | . electric filters                            | electronic countermeasures                                | meteorological radar radiosondes                      |
|          | radio filters                                 | electronic countermeasures                                | rauiosoriues  |
|          | radio equipment                               | extraterrestrial radio waves                              | radio meteors   |
|          | . radio filters                               | ∞ interference  | DEF Meteors which have been detected by               |
| RT       | crystal filters                               | interference grating                                      | the reflection of radio signals from the meteor       |
| ۰        | ∘ filters                                     | interference immunity                                     | trails of relatively high ion density (ion columns).  |
|          | interference grating                          | jamming   | GS celestial bodies                                   |
|          | microwave filters                             | noise generators  | . meteoroids  |
|          | radar filters                                 | noise storms  | radio meteors   |

RT atmospheric ionization . . transmitter receivers . . radio stars meteor trails . whistler recorders . pulsars BL Lacertae objects receivers radio navigation . radio receivers blazars DEF Navigation based upon the reception . . superheterodyne receivers CN emission of radio signals. . . transmitter receivers extraterrestrial radio waves GS navigation . whistler recorders galactic nuclei data links . radio navigation . . hyperbolic navigation directors (antenna elements) gamma ray sources (astronomy) ... Decca navigation electromagnetic noise hydroxyl emission ... LORAC navigation system intermediate frequency amplifiers irregular galaxies Maffei galaxies Milky Way Galaxy . . . loran loudspeakers . . . . loran C Orion (radio interferometry network) . . . . loran D parasitic elements (antennas) radiation sources ... Shoran radar receivers ∞ sources reception diversity spectral counterparts (astronomy) . . Tacan . VHF omnirange navigation television reception air navigation transponders radio spectra air traffic control DEF Frequencies of electromagnetic radiatuners tion usable for radio communication. aircraft guidance all-weather air navigation radio reception GS spectra signal reception astronavigation GS . radiation spectra automatic flight control . radio reception . . electromagnetic spectra celestial navigation collision avoidance ... radio spectra homodyne reception radar reception ... microwave spectra RT carrier waves electromagnetic noise ∞ receiving dead reckoning distance measuring equipment Doppler navigation flight control reception diversity scatter propagation television reception H I regions radiant flux density guidance (motion)
homing devices
inertial navigation
interplanetary navigation
navigation aids
omnidirectional radio ranges radio reflection radio spectroscopy USE radio echoes GS spectroscopy . radio spectroscopy astronomical spectroscopy radio relay systems ultraviolet spectra ultraviolet spectroscopy GS telecommunication . radio communication positioning . . radio relay systems x ray spectroscopy radar navigation ... code division multiple access satellite navigation systems . . time division multiple access radio stars solar compasses celestial bodies
. radio sources (astronomy)
. . radio stars communication equipment space navigation GS communication satellites surface navigation data links Defense Communications Satellite . . . pulsars radio observation GS observation . stars Earth terminal measurement system . . radio stars radio observation Earth terminals RT space observations (from Earth) . . pulsars Global Tracking Network quasars Molniya satellites radiative transfer radio occultation MSAT GS occultation stellar radiation orbit spectrum utilization . radio occultation atmospheric composition ∞ relay radio telegraphy ∞ systems telecommunication atmospheric pressure GS TDR satellites . radio communication atmospheric temperature planetary atmospheres . . radio telegraphy radio scattering space probes communication equipment GS scattering spacecraft trajectories keying . radio scattering Morse code . microwave scattering radio physics atmospheric diffusion RT ∞ physics radio telemetry atmospheric scattering ∞ science GS telecommunication scatter propagation theoretical physics . radio communication signal fading . . radio telemetry signal transmission ... pulse frequency modulation radio probing RT measuring instruments telemetry radio signal attenuation . telemetry ∞ probes USE ` radio attenuation ... radio telemetry radio propagation ... pulse frequency modulation radio signal propagation USE radio transmission telemetry USE radio transmission transmission . signal transmission radio range radio signals (EXCLUDES RADIO BEACONS) . . telemetry broadcasting distance ... radio telemetry Project SETI .... pulse frequency modulation . radio range Rayleigh fading range (extremes) telemetry signal distortion . frequency ranges communication equipment signal mixing radio range data transmission ∞ signals RT radar range extraterrestrial communication transhorizon radio propagation ground support equipment whistlers measuring instruments pulse modulation radio ranges USE radio beacons radio sources (astronomy) radiometeorographs (LIMITED TO EXTRATERRESTRIAL radio receivers radiosondes RADIO SOURCES)
Celestial objects that emit radio waves. GS communication equipment space communication . radio receivers celestial bodies wireless communication . radio sources (astronomy) superheterodyne receivers . . transmitter receivers . . Cassiopeia A radio telescopes DEF Devices for receiving, amplifying, and measuring the intensity of radio waves originating outside the Earth's atmosphere or reflected

. . extragalactic radio sources

from a body outside the atmosphere.

. . . radio galaxies . . . radio jets (astronomy)

. . quasars

. whistler recorders

. . superheterodyne receivers

radio equipment

radio receivers

GS radio equipment power, for purposes of radio transmission. ... whistlers radio telescopes GS radio equipment atmospherics . . kilometer wave orbiting telescope . radio transmitters coherent electromagnetic radiation Very Large Array (VLA) . . radio beacons electromagnetic noise . Very Long Baseline Array (VLBA) ... omnidirectional radio ranges electromagnetic surface waves telescopes . . self calibrating omnirange extraterrestrial radiation radio telescopes . . radiometeorographs far infrared radiation frequencies kilometer wave orbiting telescope . . radiosondes . . Very Large Array (VLA) ...ionosondes ground wave propagation . Very Long Baseline Array (VLBA) . . . rawinsondes monochromatic radiation . . radiotelephones multipath transmission antennas Jodrell Bank Observatory sonobuoys nonthermal radiation optical equipment . transmitter receivers planetary radiation polarized electromagnetic radiation phase switching interferometers transmitters . radio transmitters scatter propagation Quasat solar radiation . . radio beacons radio tracking . . . omnidirectional radio ranges solitary waves . . . . self calibrating omnirange tracking (position) thermal radiation . radio tracking . . radiometeorographs transverse waves . wildlife radiolocation . . radiosondes traveling waves tropospheric waves RT radar scanning ...ionosondes radar tracking . . . rawinsondes range and range rate tracking . . radiotelephones radioactive age determination rangefinding UF radioactive dating . . sonobuoys RT ∞ aging rawinsondes . . transmitter receivers fossils spacecraft tracking multichannel communication geochronology quartz crystals radio transmission half life television transmission DEF The transmission of signals by means ∞ measurement transponders of radiated electromagnetic waves other than radiochemistry wildlife radiolocation light or heat waves. Used for radio propagation radiogenic materials and radio signal propagation. time measurement radio wave refraction radio propagation GS refraction radio signal propagation radioactive contaminants . atmospheric refraction transmission contaminants radio wave refraction . electromagnetic wave transmission . radioactive contaminants RT wave dispersion . . radio transmission atmospheric composition . . . double sideband transmission fallout radio waves nuclear radiation ... ionospheric propagation . . . ionospheric F-scatter DEF Waves produced by oscillation of an radiation effects propagation electric charge at a frequency useful for radio radiation hazards . . . microwave transmission communication. Used for radio frequency radia-. . . multipath transmission radioactive dating radio frequency radiation USE radioactive age determination . short wave radio transmission . . . single sideband transmission electromagnetic radiation spread spectrum transmission . radio waves ∞ radioactive debris (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . . transequatorial propagation . . decametric waves . . . transhorizon radio propagation . signal transmission . . extraterrestrial radio waves . . . galactic radio waves debris . North Polar Spur (astronomy) . . radio transmission fallout . . . radio bursts ... double sideband transmission radioactive materials . . . . solar radio bursts . . . ionospheric propagation radioactive wastes . . . . . type 2 bursts . . . ionospheric F-scatter radiogenic materials . . . . . type 3 bursts propagation . . . . type 4 bursts . . . microwave transmission radioactive decay . . . . type 5 bursts ... multipath transmission The spontaneous transformation of a . . . solar radio emission ... short wave radio transmission nuclide into one or more nuclides accompanied . . . . solar radio bursts by the release of radiation. . . . single sideband transmission spread spectrum transmission . . . . . type 2 bursts GS decay . . . . type 3 bursts ... transequatorial propagation . radioactive decay . . . . . type 4 bursts . . transhorizon radio propagation . . alpha decay antipodes . . . . . type 5 bursts . . neutron emission atmospheric attenuation . . . cosmic microwave background nuclear reactions broadcasting radiation . radioactive decay . . long wave radiation code division multiplexing . . alpha decay companding .. radio emission . . neutron emission data transmission . CN emission emission hydroxyl emission Earth-ionosphere waveguide gamma ray beams . . . radio bursts gamma rays F region frequency reuse . . . . solar radio bursts half life frequency shift keying magnetoionics . . . . . type 2 bursts hypernuclei . . . . . type 3 bursts nuclear fission modulation . . . . . type 4 bursts nuclear radiation multiplexing
packet switching
pulse communication . . . . . type 5 bursts particle decay solar radio emission photoproduction . . . . solar radio bursts post-blast nuclear radiation pulse frequency modulation telemetry radar transmission . type 2 bursts radioactivity . . . . . type 3 bursts radiogenic materials . . . . . type 4 bursts thermonuclear reactions radome materials . . . . type 5 bursts satellite transmission vector currents . . short wave radiation scatter propagation ... microwaves Seafarer project radioactive elements . . . . centimeter waves Sommerfeld approximation USE radioactive isotopes . . . . cosmic microwave background Symphonie satellites radiation radioactive isotopes Voice of America

. . . . decimeter waves

. . . . millimeter waves

. . sky waves

. . . . microwave emission

. . . submillimeter waves

#### radio transmitters

DEF Devices for producing radio-frequency

wave attenuation

wave propagation

radioactive elements

radioactive nuclides

chemical elements

radionuclides

GS

|    | isotopes                  |         | nuclear fission                           |          | radioactive isotopes                    |
|----|---------------------------|---------|---|----------|---|
|    | radioactive isotopes      |         | nuclear radiation                         |          |   |
|    | astatine isotopes         |         | radiation hazards                         |          | emical separation                       |
|    | beryllium 7               |         | radiation sources                         | GS       | radiochemistry                          |
|    | beryllium 9               | c       | ∞ radioactive debris                      |          | radiochemical separation                |
|    | beryllium 10              |         | radioactivity                             | RT       | chemical reactions                      |
|    | carbon 14                 |         | radiobiology                              |          | quantitative analysis                   |
|    | cerium 137                |         | radiochemistry                            | ۰        | ∘ separation                            |
|    | cerium 144                |         | uranium plasmas                           |          |   |
|    | cesium 134                |         |   | radioch  | emistry                                 |
|    | cesium 137                | radioac | tive nuclides                             | UF       | reactor chemistry                       |
|    | cesium 144                | USE     | radioactive isotopes                      | GS       | radiochemistry                          |
|    | cobalt 58                 |         |   |          | . radiochemical separation              |
|    | cobalt 60                 | radioad | ctive wastes                              | RT       | chemical analysis                       |
|    | copper isotopes           | UF      | nuclear wastes                            | ۰        | o chemistry                             |
|    | gold 198                  | GS      | wastes                                    |          | ionizing radiation                      |
|    | indium isotopes           |         | . radioactive wastes                      |          | isotopic labeling                       |
|    | iodine 125                | RT      | contamination                             |          | nuclear chemistry                       |
|    | iodine 131                |         | decommissioning                           |          | nuclear radiation                       |
|    | iodine 131                |         | environment pollution                     |          | nuclear research                        |
|    |                           |         | environment protection                    |          | radioactive age determination           |
|    | iron 59                   |         | environmental surveys                     |          |   |
|    | krypton 85                |         |   |          | radioactive materials                   |
|    | niobium 95                |         | fission products                          |          | radioactive wastes                      |
|    | nitrogen 16               |         | hazardous material disposal (in           |          | radioactivity                           |
|    | phosphorus 32             |         | space)                                    |          | radiobiology                            |
|    | polonium 208              |         | nonpoint sources                          |          |   |
|    | polonium 209              |         | plasma core reactors                      |          | enic materials                          |
|    | polonium 210              |         | poisoning (reaction inhibition)           | RT       | nuclear reactions                       |
|    | potassium 38              |         | pollution                                 |          | radioactive age determination           |
|    | potassium 40              |         | radiation hazards                         | ۰        | o radioactive debris                    |
|    | rubidium 86               | ,       | ∞ radioactive debris                      |          | radioactive decay                       |
|    | sodium 22                 |         | radiochemistry                            |          | radioactive wastes                      |
|    |                           |         | radiogenic materials                      |          | transmutation                           |
|    | sodium 24                 |         | soil pollution                            |          | transmittation                          |
|    | strontium 85              |         | solid wastes                              | radiono  | oniometers                              |
|    | strontium 88              |         |   |          |   |
|    | strontium 89              |         | waste disposal                            | GS       | measuring instruments                   |
|    | strontium 90              |         | 4.6                                       |          | . goniometers                           |
|    | transuranium elements     | radioad |   |          | radiogoniometers                        |
|    | americium                 |         | Spontaneous disintegration of atomic      | RT       | radio direction finders                 |
|    | americium isotopes        |         | with emission of corpuscular or electro-  |          |   |
|    | americium 241             | magnet  | ic radiations. The number of spontane-    | radiogr  |   |
|    | berkelium                 | ous dis | integrations per unit mass and per unit   | UF       | cinefluorography                        |
|    | californium               | time of | a given unstable (radioactive) element,   |          | cineradiography                         |
|    | californium isotopes      |         | measured in curies.                       | GS       | imagery                                 |
|    |                           |         | ∞ activity                                |          | . radiography                           |
|    | curium                    | ***     | alpha particles                           |          | . angiography                           |
|    | curium isotopes           |         | emission                                  |          | autoradiography                         |
|    | curium 242                |         |   |          | neutron radiography                     |
|    | curium 244                |         | fallout                                   |          |   |
|    | einsteinium               |         | fission products                          |          | tomography                              |
|    | fermium                   |         | gamma rays                                |          | computer aided tomography               |
|    | lawrencium                |         | geochemistry                              |          | urography                               |
|    | mendelevium               |         | geophysics                                | RT       | Bragg angle                             |
|    | neptunium                 |         | half life                                 |          | crystallography                         |
|    | neptunium isotopes        |         | ionizing radiation                        | ۰        | ∘ flash                                 |
|    | nobelium                  |         | nuclear radiation                         |          | irradiation                             |
|    | plutonium                 |         | particle production                       |          | lixiscopes                              |
|    | plutonium isotopes        |         | post-blast nuclear radiation              | ۰        | o materials tests                       |
|    | plutonium 238             | ,       | ∞ radiation                               |          | metallography                           |
|    | plutonium 239             |         | radiation hazards                         |          | nondestructive tests                    |
|    |                           |         | radioactive decay                         |          | photography                             |
|    | plutonium 240             |         | radioactive materials                     |          | pneumography                            |
|    | plutonium 241             |         | radiochemistry                            |          | radiology                               |
|    | plutonium 244             |         | radiocriemistry                           |          | x ray analysis                          |
|    | sergenium                 | radiobi | ology                                     |          | x ray apparatus                         |
|    | tritium                   |         | The study of the effects produced on      |          | x ray astronomy                         |
|    | uranium 232               |         |   |          | x ray diffraction                       |
|    | uranium 233               | GS      | rganisms by radiation.<br>medical science |          | •                                       |
|    | uranium 238               | GS      |   |          | x ray fluorescence                      |
|    | xenon 133                 |         | . nuclear medicine                        |          | x ray imagery                           |
|    | xenon 135                 | _       | radiobiology                              |          | x ray inspection                        |
|    | zirconium 95              | RT      | antiradiation drugs                       |          | x ray spectroscopy                      |
| RT | actinide series           | (       | ∞ biology                                 |          | x ray telescopes                        |
|    | arsenic isotopes          |         | biomagnetism                              |          | x ray tubes                             |
|    | gold isotopes             |         | dosimeters                                |          | x rays                                  |
|    | isotope effect            |         | health physics                            |          |   |
|    | isotopic labeling         |         | immunoassay                               | radioim  | munoassay                               |
|    |                           |         | irradiation                               |          | A medical diagnostic procedure for the  |
|    | radiocardiography         | (       | ∞ medicine                                |          | ents (hormones and immunoglobulins      |
|    | radioisotope batteries    | `       | nuclear radiation                         |          | y) as well as pharmaceuticals in the    |
|    | radioisotope heat sources |         | radioactive materials                     |          | he RIA is based on the antigen antibody |
|    | radiophosphors            |         |   | reaction |   |
|    | rhenium isotopes          |         | radiochemistry                            |          |   |
|    | •                         |         | radioimmunoassay                          | GS       | immunoassay                             |
|    |                           |         |   |          | radioimmunoassay                        |
|    | tive materials            |         | ardiography                               | RT       | antigens                                |
| RT | actinide series           |         | The technique of recording an intrave-    |          | assaying                                |
|    | fissile fuels             | nously  | injected radioisotope in the heart cham-  |          | biochemistry                            |
|    | fission products          | bers.   |   |          | immunology                              |
|    | fissionable materials     | GS      | bioengineering                            |          | radiobiology                            |
|    | ionizing radiation        | , ,     | . biometrics                              |          | <u>,</u>                                |
|    | isotopes                  |         | radiocardiography                         | radiois  | otope batteries                         |
| -  | ∘ materials               | RT      | cardiology                                | UF       | atomic batteries                        |
|    | atoriaio                  | 13.1    | ou. alology                               | Oi       | a.c.ino pattorioo                       |

RT cardiology

| GS                        |   |   |   |   |
|---------------------------|---|---|---|---|
|                           | electric generators   | quantum well infrared   |   | rawinsondes   |
|                           | . direct power generators   | photodetectors  | RT  | Arcas rocket vehicles   |
|                           | radioisotope batteries  | microwave radiometers   |   | balloon sounding  |
|                           | SNAP 7  | Advanced Microwave Sounding   |   | balloon-borne instruments   |
|                           |   | •   |   |   |
|                           | SNAP 9A   | Unit  |   | dropsondes  |
|                           | SNAP 11   | passive L-band radiometers  |   | meteorological balloons   |
|                           | SNAP 13   | pressure modulator radiometers  |   | radio meteorology   |
|                           | SNAP 15   | spectroradiometers  |   | radio telemetry   |
|                           | SNAP 17   | MISR (radiometry)   |   | radiometeorographs  |
|                           |   |   |   |   |
|                           | SNAP 19   | MODIS (radiometry)  |   | ROBIN balloons  |
|                           | SNAP 21   | RT bolometers   |   | satellite sounding  |
|                           | SNAP 23   | forest fire detection   |   | sounding rockets  |
|                           | SNAP 27   | horizon scanners  |   | 9   |
|                           | SNAP 29   | infrared photography  | radiotal                                      | onhones   |
| ОТ                        |   |   |   | ephones   |
| RT                        | electric batteries  | infrared tracking   | GS  | radio equipment   |
|                           | fission electric cells  | Knudsen gages   |   | . radio transmitters  |
|                           | nuclear auxiliary power units   | photometers   |   | radiotelephones   |
|                           | radioactive isotopes  | pyranometers  |   | receivers   |
|                           | radioisotope heat sources   | radiometric resolution  |   |   |
|                           |   |   |   | . radiotelephones   |
|                           | thermionic converters   | spectrophotometers  |   | telecommunication   |
|                           | thermoelectric generators   | thermistors   |   | . radiotelephones   |
|                           |   | ultraviolet detectors   |   | telephones  |
| radiois                   | otope heat sources  | x ray detectors   |   | radiotelephones   |
|                           | ed December 2002)   | ,   |   | transmitters  |
|                           | Heat sources comprised of encapsu-  | radiometric correction  |   |   |
|                           | ·   |   |   | . radio transmitters  |
|                           | dioactive isotopes; often used as heat  | DEF An effort to correct the intensity range  |   | radiotelephones   |
| units in                  | thermoelectric generators.  | of an image. Used for radiometric rectification.  | RT  | echo suppressors  |
| UF                        | General Purpose Heat Sources  | UF radiometric rectification  |   | radio communication   |
|                           | GPHS (nucleonics)   | RT image enhancement  |   | telephony   |
| GS                        | heat sources  | 9   |   |   |
| 63                        |   | infrared radiometers  |   | voice communication   |
|                           | . radioisotope heat sources   | multispectral band scanners   |   |   |
| RT                        | radioactive isotopes  | vegetative index  | radiothe                                      | rany  |
|                           | radioisotope batteries  | · ·   | USE   | radiation therapy   |
|                           | thermoelectric power generation   | radiometric rectification   | UUL   | radiation therapy   |
|                           | thorntoolootho power generation   |   |   |   |
|                           |   | USE radiometric correction  | radium  |   |
| radiolo                   |   |   | GS  | chemical elements   |
| GS                        | medical science   | radiometric resolution  |   | . actinide series   |
|                           | . radiology   | DEF The sensitivity of the sensor to distin-  |   |   |
| RT                        | aerospace medicine  | guish between gray levels.  |   | radium  |
|                           | • medicine  | GS resolution   |   | radium isotopes   |
|                           |   |   |   | radium 226  |
| 0                         | ∘ radiation   | . radiometric resolution  |   | metals  |
|                           | radiography   | RT multispectral band scanners  |   | . actinide series   |
|                           | x ray analysis  | radiometers   |   |   |
|                           | x rays  | remote sensors  |   | radium  |
|                           | x rayo  | 1011010 00110010  |   | radium isotopes   |
|                           |   | anastral resolution   |   |   |
| an all a lead             | -1-   | spectral resolution   |   | radium 226  |
| radioly                   |   |   |   |   |
| radioly:<br>GS            | sis<br>chemical reactions   | spectral resolution radionuclides   | radium  | radium 226  |
| -                         | chemical reactions  | radionuclides   | radium  | radium 226  226   |
| -                         | chemical reactions . photochemical reactions  |   | <b>radium</b><br>GS                           | radium 226  226 chemical elements   |
| -                         | chemical reactions . photochemical reactions . radiolysis   | radionuclides USE radioactive isotopes  |   | radium 226  226   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition   | radionuclides USE radioactive isotopes radiopathology   |   | radium 226  226 chemical elements   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis  | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | radium 226  226 chemical elements . actinide series . radium  |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition   | radionuclides USE radioactive isotopes radiopathology   |   | 226 chemical elements . actinide series . radium radium isotopes  |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation   | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | 226 chemical elements . actinide series . radium radium isotopes radium 226   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis  | radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology RT antiradiation drugs   |   | 226 chemical elements . actinide series . radium . radium . radium isotopes . radium 226 . nuclides   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiotysis radiation chemistry   | radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology RT antiradiation drugs nuclear medicine  |   | 226 chemical elements . actinide series . radium radium isotopes radium 226   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis   | radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology RT antiradiation drugs   |   | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects   | radionuclides USE radioactive isotopes  radiopathology GS medical science     radiopathology RT antiradiation drugs     nuclear medicine     radiation sickness   |   | 226  226  chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes . radium isotopes   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis   | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | chemical elements actinide series radium radium isotopes radium 226 nuclides isotopes radium isotopes radium 226 radium 226 radium sotopes radium isotopes radium 226   |
| -                         | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis  | radionuclides USE radioactive isotopes  radiopathology GS medical science     radiopathology RT antiradiation drugs     nuclear medicine     radiation sickness   |   | chemical elements actinide series radium radium radium radium isotopes radium 226 nuclides isotopes radium isotopes radium isotopes radium isotopes radium 226 metals   |
| GS                        | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects   | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium isotopes . radium 226 mudides . isotopes . radium isotopes radium 226 metals . actinide series   |
| GS RT                     | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis   | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | chemical elements actinide series radium radium radium radium isotopes radium 226 nuclides isotopes radium isotopes radium isotopes radium isotopes radium 226 metals   |
| GS RT radiome             | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis   | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium isotopes . radium 226 mudides . isotopes . radium isotopes radium 226 metals . actinide series   |
| GS RT                     | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis eteorographs measuring instruments  | radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology RT antiradiation drugs nuclear medicine radiation sickness  radiophosphors GS phosphors . radiophosphors RT radioactive isotopes |   | 226  226  chemical elements     actinide series     . radium     . radium isotopes     radium 226     nuclides     . isotopes     radium isotopes     radium isotopes     radium z26 metals     actinide series     . radium     radium radium  |
| GS RT radiome             | chemical reactions photochemical reactions . radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments meteorological instruments   | radionuclides USE radioactive isotopes  radiopathology GS medical science   |   | 226  chemical elements     actinide series     radium     radium isotopes     radium 226     nuclides     isotopes     radium isotopes     radium 226 mudides     isotopes     radium 226 metals     actinide series     radium   |
| GS RT radiome             | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis eteorographs measuring instruments  | radionuclides USE radioactive isotopes  radiopathology GS medical science . radiopathology RT antiradiation drugs nuclear medicine radiation sickness  radiophosphors GS phosphors . radiophosphors RT radioactive isotopes | GS  | 226 chemical elements actinide series radium radium isotopes radium 226 nuclides isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium 226 metals actinide series radium radium isotopes radium 226 metals  |
| GS RT radiome             | chemical reactions photochemical reactions . radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments meteorological instruments   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | radium 226  226 chemical elements . actinide series . radium radium isotopes radium 226 .nuclides . isotopes radium isotopes radium 226 metals . actinide series . radium radium radium 226 isotopes  |
| GS RT radiome             | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226  chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium isotopes radium isotopes radium 226 metals . actinide series . radium . radium isotopes radium 226 metals . actinide series . radium . radium 226 isotopes chemical elements  |
| GS RT radiome             | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments meteorological instruments radiometeorographs radio equipment radio transmitters   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | radium 226  226 chemical elements . actinide series . radium radium isotopes radium 226 .nuclides . isotopes radium isotopes radium 226 metals . actinide series . radium radium radium 226 isotopes  |
| GS RT radiome             | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis photolysis eteorographs measuring instruments meteorological instruments radio equipment radio transmitters radiometeorographs  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226  226  chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium 226 metals . actinide series . radium radium 226  isotopes chemical elements . actinide series   |
| GS RT radiome             | chemical reactions photochemical reactions . radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments . meteorological instruments . radio equipment radio transmitters . radiometeorographs recording instruments   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | chemical elements actinide series radium radium isotopes radium 226 nuclides risotopes radium isotopes radium isotopes radium isotopes radium 226 metals actinide series radium radium isotopes radium radium radium radium radium 226 isotopes chemical elements actinide series radium radium 226   |
| GS RT radiome             | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis photolysis eteorographs measuring instruments meteorological instruments radio equipment radio transmitters radiometeorographs  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | radium 226  226 chemical elements . actinide series . radium radium isotopes radium 226 .nuclides . isotopes radium isotopes radium 226 metals . actinide series . radium radium isotopes radium 226  isotopes chemical elements . actinide series . radium radium radium radium radium radium radium radium isotopes   |
| GS RT radiome             | chemical reactions photochemical reactions . radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments . meteorological instruments . radio equipment radio transmitters . radiometeorographs recording instruments   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | radium 226  226 chemical elements . actinide series . radium radium isotopes radium 226 .nuclides isotopes radium isotopes radium isotopes radium 226 metals . actinide series radium radium isotopes radium 226  isotopes chemical elements . actinide series radium radium isotopes radium radium isotopes  |
| GS RT radiome             | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio transmitters . radiometeorographs recording instruments . radiometeorographs recording instruments . radiometeorographs transmitters  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | radium 226  226 chemical elements . actinide series . radium radium isotopes radium 226 .nuclides . isotopes radium isotopes radium 226 metals . actinide series . radium radium isotopes radium 226  isotopes chemical elements . actinide series . radium radium radium radium radium radium radium radium isotopes   |
| GS RT radiome             | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis photolysis  eteorographs measuring instruments meteorological instruments radiometeorographs radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs ransmitters radiometeorographs radiometeorographs recording instruments radiometeorographs  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226  chemical elements     actinide series     radium     radium isotopes     radium 226     nuclides     isotopes     radium 226     radium 226     radium isotopes     radium isotopes     radium isotopes     radium 226     metals     actinide series     radium     radium isotopes     radium 226  isotopes     chemical elements     actinide series     radium     radium isotopes     radium 226  isotopes     chemical elements     actinide series     radium     radium isotopes     radium isotopes     radium 226     nuclides   |
| RT<br>radiom<br>GS        | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments meteorological instruments radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs readiometeorographs recording instruments radiometeorographs ransmitters radiometeorographs radiometeorographs radiometeorographs radiometeorographs radiometeorographs radio transmitters radiometeorographs  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226  226  chemical elements     actinide series     . radium     . radium isotopes     . radium 226     . nuclides     . isotopes     . radium isotopes     . radium isotopes     . radium isotopes     . radium 226  metals     . actinide series     . radium     . radium 226  isotopes     . radium 226  isotopes     chemical elements     . actinide series     . radium     . radium 226  isotopes     chemical elements     . actinide series     . radium     . radium isotopes     radium isotopes     radium isotopes     radium isotopes     radium 226     radium isotopes     radium isotopes     radium 226     radium 226     radium 226     radium 226     radium 226  |
| GS RT radiome             | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes . radium . radium sotopes . radium . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium . radium isotopes . radium . radium isotopes . radium . radium isotopes . radium . radium isotopes . radium 226 . nuclides . isotopes . radium isotopes . radium isotopes   |
| RT<br>radiom<br>GS        | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis radiation effects radiolysis photolysis eteorographs measuring instruments meteorological instruments radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs readiometeorographs recording instruments radiometeorographs ransmitters radiometeorographs radiometeorographs radiometeorographs radiometeorographs radiometeorographs radio transmitters radiometeorographs  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium 226 metals . actinide series . radium . radium isotopes radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes   |
| RT<br>radiom<br>GS        | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | chemical elements actinide series radium radium isotopes radium 226 nuclides isotopes radium 226 radium 226 radium 226 radium isotopes radium isotopes radium isotopes radium isotopes radium 226 radium radium isotopes radium radium isotopes radium 226 isotopes chemical elements actinide series radium radium isotopes radium radium isotopes radium isotopes radium isotopes radium isotopes radium 226 radium 226 radium 226 radium 226 radium isotopes radium isotopes radium isotopes radium isotopes   |
| RT radiom: GS             | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium 226 metals . actinide series . radium . radium isotopes radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes radium isotopes   |
| RT radiom: GS             | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis photolysis reaction radiolysis radiation effects radiolysis radiolysis radiolysis radiolysis radiolysis radiolysis radiolysis radiolysis radiolysis recorgraphs measuring instruments readiometeorographs radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs readio transmitters radiometeorographs radio transmitters radiometeorographs radio telemetry radiosondes   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | chemical elements actinide series radium radium isotopes radium 226 nuclides isotopes radium 226 radium 226 radium 226 radium isotopes radium isotopes radium isotopes radium isotopes radium 226 radium radium isotopes radium radium isotopes radium 226 isotopes chemical elements actinide series radium radium isotopes radium radium isotopes radium isotopes radium isotopes radium isotopes radium 226 radium 226 radium 226 radium 226 radium isotopes radium isotopes radium isotopes radium isotopes   |
| RT radiome GS  RT radiome | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes eters Instruments for detecting and, usually,  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes . radium 226  isotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium 226 metals . actinide series . radium  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes eters Instruments for detecting and, usually, ng radiant energy.  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes radium 226  isotopes radium 226  isotopes chemical elements . actinide series . radium . radium 226  isotopes radium 226  isotopes radium sotopes radium 226 radium 226 radium 226 radium 226 radium 226 nuclides . isotopes radium isotopes radium isotopes radium isotopes radium sotopes  |
| RT radiome GS  RT radiome | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs transmitters . radiometeorographs transmitters . radio transmitters . radio transmitters . radio transmitters . radio transmitters . Instruments for detecting and, usually, ng radiant energy. measuring instruments  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes . radium 226  isotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium 226 metals . actinide series . radium  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs transmitters . radiometeorographs transmitters . radio transmitters . radio transmitters . radio transmitters . radio transmitters . Instruments for detecting and, usually, ng radiant energy. measuring instruments  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes radium 226  isotopes radium 226  isotopes chemical elements . actinide series . radium . radium 226  isotopes radium 226  isotopes radium sotopes radium 226 radium 226 radium 226 radium 226 radium 226 nuclides . isotopes radium isotopes radium isotopes radium isotopes radium sotopes  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis  eteorographs measuring instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs racio equipment . radiometeorographs recording instruments . radiometeorographs radiotelemetry radio telemetry radiosondes  eters Instruments for detecting and, usually, mg radiant energy. measuring instruments . radiation measuring instruments  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | GS  | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes radium 226  isotopes radium 226  isotopes chemical elements . actinide series . radium . radium 226  isotopes radium 226  isotopes radium sotopes radium 226 radium 226 radium 226 radium 226 radium 226 nuclides . isotopes radium isotopes radium isotopes radium isotopes radium sotopes  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiation measuring instruments . radiation measuring instruments . radiation measuring instruments . radiation measuring instruments . actinometers   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS                                  | 226  226  226  226  226  226  226  226  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers radiometers   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS                                  | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes radium 226  isotopes radium 226  isotopes chemical elements . actinide series . radium . radium 226  isotopes radium 226  isotopes radium sotopes radium 226 radium 226 radium 226 radium 226 radium 226 nuclides . isotopes radium isotopes radium isotopes radium isotopes radium sotopes  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs transmitters . radio transmitters . radio transmitters . radio transmitters . radio transmitters . radiot pinstruments . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers radiometers radiometers Dicke radiometers  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS                                  | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium . radium isotopes . radium 226 metals . actinide series . radium . radium isotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium 226 . radium . radium 226 . radium . radium 226 . nuclides . isotopes . radium 226 nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium isotopes . radium   |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers radiometers   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS                                  | 226  226  226  226  226  226  226  226  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs recording instruments . radiometeorographs transmitters . radio transmitters . radio transmitters . radio transmitters . radio transmitters . radiot pinstruments . radiometeorographs transmitters . radiometeorographs radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers radiometers radiometers Dicke radiometers  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>radius<br>USE<br>radome       | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium . radium isotopes . radium 226 metals . actinide series . radium . radium isotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium 226 . radium . radium 226 . radium . radium 226 . nuclides . isotopes . radium 226 nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium isotopes . radium   |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radio transmitters . radio transmitters . radio telemetry radiosondes eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers . cactinometers . radiometers . infrared detectors FLIR detectors  | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>radius<br>USE<br>radome       | chemical elements actinide series radium radium isotopes radium 226 nuclides radium isotopes radium 226 nuclides radium isotopes radium 226 metals actinide series radium radium isotopes radium 226 metals actinide series radium radium isotopes radium 226 isotopes chemical elements actinide series radium radium isotopes radium radium isotopes radium 226 nuclides isotopes radium 226 nuclides radium 226 nuclides radium 226 metals actinide series radium 226 nuclides radium 226 metals actinide series radium 226 metals radium 226 metals radium isotopes radium 226 metals radium isotopes radium 226  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs radio transmitters . radiometeorographs radio transmitters . radiometeorographs radio transmitters . radiometeorographs radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers radiometers Dicke radiometers infrared detectors infrared radiometers infrared radiometers infrared radiometers   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>radius<br>USE<br>radome<br>GS | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium 226 isotopes . radium sisotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium 226 . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium 226 . radium 226 . radium 226 metals . actinide series . radium 226 metals . radium 226 metals . radium isotopes . radium 226 metals . radium 226 metals dielectrics . radium 226 radii materials dielectrics . radome materials  |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radio transmitters . radio transmitters . radio transmitters . radio transmitters . radiot telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers actinometers Infrared detectors   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>VSE<br>radome<br>GS<br>RT     | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes . radium . radium sisotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium . radium 226 isotopes . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium 226 metals . actinide series . radium 226 metals . radium 226 metals . actinide series . radium . radium 226 metals . radium . radium 226 metals . radium . radium 226 metals . radium . radium isotopes . radium . radium 226 radii materials dielectrics . radome materials electromagnetic wave transmission                 |
| RT radiom GS              | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis radiation effects radiolysis photolysis  eteorographs measuring instruments meteorological instruments radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs radio tansmitters radio transmitters radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments radiation measuring instruments radiometers | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>VSE<br>radome<br>GS<br>RT     | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes chemical elements . actinide series . radium . radium sotopes radium 226 isotopes radium 226 metals . actinide series . radium . radium sotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium sotopes radium . radium sotopes radium . radium isotopes radium . radium isotopes radium expansiones radome materials electromagnetic wave transmission |
| RT radiom GS              | chemical reactions . photochemical reactions . radiolysis decomposition . radiolysis dissociation . radiolysis radiation chemistry . radiolysis radiation effects . radiolysis photolysis photolysis  eteorographs measuring instruments . meteorological instruments . radiometeorographs radio equipment . radio transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radiometeorographs transmitters . radio transmitters . radio transmitters . radio transmitters . radio transmitters . radiot telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments . radiometers . actinometers actinometers Infrared detectors   | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>VSE<br>radome<br>GS<br>RT     | 226 chemical elements . actinide series . radium . radium isotopes . radium 226 . nuclides . isotopes . radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes . radium . radium sisotopes . radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes . radium . radium 226 isotopes . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium . radium 226 . radium 226 metals . actinide series . radium 226 metals . radium 226 metals . actinide series . radium . radium 226 metals . radium . radium 226 metals . radium . radium 226 metals . radium . radium isotopes . radium . radium 226 radii materials dielectrics . radome materials electromagnetic wave transmission                 |
| RT radiom GS              | chemical reactions photochemical reactions radiolysis decomposition radiolysis dissociation radiolysis radiation chemistry radiolysis radiation effects radiolysis radiation effects radiolysis photolysis  eteorographs measuring instruments meteorological instruments radio equipment radio transmitters radiometeorographs recording instruments radiometeorographs recording instruments radiometeorographs radio tansmitters radio transmitters radio telemetry radiosondes  eters Instruments for detecting and, usually, ng radiant energy. measuring instruments radiation measuring instruments radiometers | radionuclides USE radioactive isotopes  radiopathology GS medical science   | radium<br>GS<br>VSE<br>radome<br>GS<br>RT     | 226 chemical elements . actinide series . radium . radium isotopes radium 226 . nuclides . isotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium isotopes radium 226 isotopes chemical elements . actinide series . radium . radium 226 isotopes chemical elements . actinide series . radium . radium sotopes radium 226 isotopes radium 226 metals . actinide series . radium . radium sotopes radium 226 metals . actinide series . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium 226 metals . actinide series . radium . radium sotopes radium . radium sotopes radium . radium isotopes radium . radium isotopes radium expansiones radome materials electromagnetic wave transmission |

|               | transparence   | rigid, fie | ld-producing rails, and a movable con-             |                            | rain  |
|---------------|--|------------|--|----------------------------|---|
|               |  |            | armature.  |                            |   |
| radome<br>DEF | s Dielectric housings for antennas.  | RT∝        | accelerators                                       | raindro <sub>l</sub><br>GS | ps<br>particles                               |
|               | Adar DOME. Pronounced ray-domes.)  |            | hypervelocity guns hypervelocity launchers         | 00                         | . drops (liquids)                             |
|               | housings   |            | mass drivers                                       |                            | raindrops                                     |
|               | . radomes  |            | nuclear fusion                                     | RT                         | drop size                                     |
|               | shells (structural forms)  |            | particle accelerators                              |                            | falling spheres                               |
|               | . domes (structural forms)   |            | spacecraft launching                               |                            | rain  |
| RT            | radomes inflatable structures  | "ail"aad   | h  |                            | rainmaking                                    |
| IXI           | protuberances  | RT         | humping tests<br>cargo                             | rainmal                    | king  |
|               | radant   | 13.1       | impact acceleration                                | GS                         | weather modification                          |
|               | radar antennas   |            | materials handling                                 |                            | rainmaking                                    |
|               | radar equipment  |            | shock tests  | RT                         | climatology                                   |
|               | radome materials   | ~          | • tests  |                            | cloud seeding precipitation (meteorology)     |
| radon         |  | railroads  |  |                            | raindrops                                     |
| GS            | chemical elements  | USE        | rail transportation                                |                            | water resources                               |
|               | . rare gases   | 002        | run trunoportunon                                  |                            |   |
|               | radon  | rails      |  | rainstor<br>GS             | storms  |
|               | radon isotopes   | RT         | rail transportation                                | 63                         | . storms (meteorology)                        |
|               | gases<br>. rare gases  |            | rapid transit systems                              |                            | rainstorms                                    |
|               | . radon  |            | surface vehicles                                   |                            | thunderstorms                                 |
|               | radon isotopes   | rain       |  | RT                         | acid rain                                     |
|               |  | GS         | precipitation (meteorology)                        |                            | flood control                                 |
| radon is      | •  |            | . rain   |                            | flood predictions<br>hailstorms               |
| UF<br>GS      | thoron chemical elements   |            | acid rain  |                            | precipitation (meteorology)                   |
| GG            | . nuclides   | RT         | aquifers   |                            | rain  |
|               | . isotopes   |            | cloud seeding                                      | ~                          | showers                                       |
|               | radon isotopes   |            | condensation nuclei flood predictions              |                            | storm damage                                  |
|               | . rare gases   |            | hydrology  |                            | storm enhancement                             |
|               | radon  |            | hydrology models                                   |                            | storm suppression tornadoes                   |
|               | radon isotopes   |            | limnology  |                            | torradoes                                     |
|               | gases<br>. rare gases  |            | precipitation measurement                          |                            |   |
|               | . radon  |            | rainbows   | SN                         | (USE OF A MORE SPECIFIC TERM IS               |
|               | radon isotopes   |            | raindrops<br>rainstorms                            |                            | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)    |
|               |  | ~          | showers  | RT                         | pressure sensors                              |
| -             | satellite  |            | thunderstorms                                      |                            | slopes  |
|               | A Soviet communications satellite in<br>onary orbit for radio and TV transmis-   |            | TRMM satellite                                     | ∞ ram                      |   |
| sion.         | onary orbit for facilo and 17 transmis-  |            | watersheds   | ∞ rain<br>SN               | (USE OF A MORE SPECIFIC TERM IS               |
| GS            | artificial satellites  |            |  | 0.1                        | RECOMMENDEDCONSULT THE TERMS                  |
|               | . communication satellites   | rain ero   |  | RT                         | LISTED BELOW) antiradar coatings              |
|               | Raduga satellite   | DEF<br>GS  | The wearing away of the land by rain. erosion      | 131                        | rams (presses)                                |
|               | . Soviet satellites  | 00         | . rain erosion                                     |                            | rams (pumps)                                  |
|               | Raduga satellite   | RT         | landslides   |                            |   |
| RAE 1         |  |            | mud  |                            | celerators                                    |
| USE           | Explorer 49 satellite  |            | sands  |                            | ed July 1994)<br>ramiet-in-tube accelerators  |
|               | •  |            | soil erosion                                       |                            | o accelerators                                |
| RAE 2         |  | rain for   | osts   | 101                        | detonation waves                              |
| USE           | Explorer 49 satellite  |            | resources  |                            | hypervelocity guns                            |
| RAE B         |  |            | . Earth resources                                  |                            | hypervelocity launchers                       |
| USE           | Explorer 49 satellite  |            | forests  |                            | ramjet engines                                |
|               | ,  |            | rain forests                                       | PAM R                      | launch vehicle                                |
| RAE-1         |  | RT         | canopies (vegetation)                              |                            | launch vehicles                               |
| USE           | Explorer 38 satellite  |            | geobotany<br>plants (botany)                       |                            | . RAM B launch vehicle                        |
| Doffeelle     | a Lagistica Madula (ISS)   | 0          | showers  |                            | rocket vehicles                               |
|               | o Logistics Module (ISS)<br>ed April 2005)   |            | tropical regions                                   |                            | . multistage rocket vehicles                  |
| USE           | Multi-Purpose Logistics Modules  |            | vegetation   | DT                         | RAM B launch vehicle                          |
| 300           | and the second s |            | -  | RT                         | solid propellant rocket engines TX-354 engine |
| rafts         |  | rain gag   |  |                            | 1X-354 eligille                               |
| GS            | rafts  | UF         | pluviographs                                       | ram effe                   | ect (hydrodynamics)                           |
| DT            | . life rafts   | GS         | measuring instruments . meteorological instruments | USE                        | hydrodynamic ram effect                       |
| RT            | floats<br>lifeboats  |            | rain gages   | 5444                       |   |
|               | survival equipment   | RT         | precipitation measurement                          | RAM pr                     | oject Radio Attenuation Measurement           |
|               | our vivar oquipmont  |            |  | USE                        | project                                       |
|               | sportation   |            | pact damage  |                            | project                                       |
| UF            | railroads  | GS         | damage   | Raman                      | effect  |
| GS            | transportation   |            | . impact damage rain impact damage                 | USE                        | Raman spectra                                 |
| RT            | . rail transportation automated guideway transit vehicles  | RT         | arroyos  | Raman                      | lacore  |
| 13.1          | automated transit vehicles   |            | erosion  | GS                         | stimulated emission devices                   |
|               | locomotives  |            | soil erosion                                       | 30                         | . lasers                                      |
|               | magnetic levitation vehicles   |            | water erosion                                      |                            | Raman lasers                                  |
|               | marine transportation  |            |  | _                          |   |
|               | rails  | rainbov    |  |                            | scattering                                    |
|               | rapid transit systems<br>surface vehicles  | GS         | distribution (property) . radiation distribution   | USE                        | Raman spectra                                 |
|               | urban transportation   |            | diffraction patterns                               | Raman                      | spectra                                       |
|               |  |            | rainbows   |                            | Spectra of the modified frequencies           |
|               | accelerators   | RT         | halos  | resulting                  | from inelastic scattering when matter is      |
| DEF           | Linear dc motors consisting of a pair of   |            | light transmission                                 | irradiate                  | d by a monochromatic beam of radiant          |

energy. Used for Raman effect and Raman rocket-based combined-cycle engines . computer storage devices scattering. Saenger space transportation system . . random access memory Raman effect supersonic low altitude missile . . core storage Raman scattering turbojet engines memory (computers) GS molecular properties . random access memory ramjet missiles . molecular spectra . core storage . . Raman spectra GS missiles random access scattering . ramjet missiles . wave scattering . . Navaho missile random distributions . . electromagnetic scattering . supersonic low altitude missile USE statistical distributions air to air missiles . . Raman spectra antiaircraft missiles random errors spectra supersonic combustion ramjet DEF Errors that are not systematic, are not . molecular spectra ... Raman spectra engines erratic, and are not mistakes. radiation spectra surface to air missiles GS errors . . electromagnetic spectra surface to surface missiles random errors . . Raman spectra RT BCH codes absorption spectra ramjet-in-tube accelerators ∞ dispersion emission spectra light (visible radiation) USE ram accelerators probability theory quality control line spectra ramp functions sampling functions (mathematics) GS stochastic processes molecular rotation ramp functions systematic errors nonlinear optics RT dynamic response vibrational spectra frequency response random loads ∞ ramps loads (forces) GS Raman spectroscopy reaction time . random loads coherent anti-Stokes Raman UF slopes . gust loads spectroscopy step functions contact loads GS spectroscopy dynamic loads . molecular spectroscopy impact loads ∞ ramps . Raman spectroscopy (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS static loads astronomical spectroscopy structural design criteria LISTED BELOW) infrared spectroscopy transient loads ramp functions RT laser-induced breakdown variable amplitude loading ramps (structures) spectroscopy line spectra random noise ramps (structures) optogalvanic spectroscopy DEF Oscillations whose instantaneous ambridges (structures) Rayleigh scattering plitudes occur, as a function of time according to crossings spectroscopic analysis a normal (Gaussian) curve. Used for Gaussian highways noise intake systems ramjet engines UF Gaussian noise intersections DEF Jet engines with no mechanical com-GS random noise ∞ parking pressor consisting of specially shaped tubes or random signals ∞ ramps background noise ducts open at both ends, the air necessary for RT slopes combustion being shoved into the duct and channel noise wheelchairs compressed by the forward motion of the encommunication theory gine, where the air passes through a diffuser electromagnetic noise rams (presses) and is mixed with fuel and burned, the exhaust GS presses ∞ noise gases issuing in a jet from the rear opening. noise (sound) . rams (presses) Ramjet engines cannot operate under static conditions. Often called ramjets. Used for noise generators hammers noise spectra platens athodyds. probability theory plungers UF athodyds pseudonoise ∞ ram GS engines signal to noise ratios . air breathing engines . . gas turbine engines stochastic processes rams (pumps) pumps white noise . . . jet engines rams (pumps) random numbers plungers . . . . integral rocket ramjets Expressions formed by sets of digits ∞ ram . . . . . low volume ramjet engines selected from a sequence of digits in which each water hammer . . . . . pulsejet engines successive digit is equally likely to be any of the . . . . supersonic combustion ramjet Ramsauer effect engines mathematical tables RT ∞ effects . . . turboramjet engines electron scattering ∞ numbers . internal combustion engines ∞ interference pseudorandom sequences . . gas turbine engines negative resistance devices . . . jet engines random positioning machines rare gases .... ramjet engines (added July 2000) scattering cross sections . . . . . integral rocket ramjets USE clinostats .... low volume ramjet engines rand project . . . . pulsejet engines random processes programs GS . . . . supersonic combustion ramjet . projects stochastic processes . random processes engines . rand project . turboramjet engines . random walk RT operations research . turbine engines communication theory . . gas turbine engines random access information theory . . . jet engines The process of obtaining data from, or intermittency placing data into, storage when there is no sequential relation governing the access time to .... ramjet engines Markov processes . . . . . integral rocket ramjets Monte Carlo method . . . . low volume ramjet engines successive storage location. random access . . . . . pulsejet engines Aloha system statistical analysis . . . . supersonic combustion ramjet computer storage devices engines input/output routines random sampling

random access memory

random processes

VSAT (network)

GS computer components

random access memory

. . . . turboramjet engines

dump combustors

Meteor 1 rocket vehicle

hydrogen fuels

Navaho missile

ram accelerators

791

The process of selecting units for a

sample of size n in such a manner that all

cobinations of n units under consideration have

an equal or ascertainable chance of being se-

lected as the sample.

GS sampling

. random sampling variability . satellite laser ranging quality control variance (statistics) ballistic cameras laser ranger/tracker random signals range and range rate tracking Marots (ESA) random noise GS distance ∞ measurement . random signals . range and range rate tracking radar measurement noise spectra radar radar tracking signal to noise ratios range and range rate tracking radio tracking ∞ signals tracking (position) range finders stochastic processes range and range rate tracking tracking (position) Global Tracking Network random variables missile tracking rangelands DEF Variables characterized by random behavior in assuming their different possible values. Mathematically, they are described by their optical tracking DEF Land providing forage for domestic radar tracking and wild animals, wildlife cover, recreation opradio tracking portunities, and vegetation for watershed proprobability distribution, which specifies the possatellite tracking tection. sible values of a random variable together with STDN (network) GS land the probability associated (in an appropriate sense) with each value. Random variables are . rangelands range control cattle said to be continuous if their possible values USE trajectory control grasslands grazing livestock extend over a continuum and discrete if their possible values are separated by finite intervals. range errors (EXCLUDES ERRORS IN DISTANCE TRAVELED--LIMITED TO ERRORS IN DISTANCE MEASUREMENT) SN functions (mathematics) rural areas Shannon-Wiener measure rural land use ∞ statistics Errors in radar range measurement ∞ variable due to the propagation of radio energy through a nonhomogeneous atmosphere. These errors Rangemaster aircraft USE G-1 aircraft random vibration are due to the fact that the velocity of radio wave GS vibration Ranger 1 lunar probe propagation varies with the index of refraction random vibration GS lunar spacecraft and that ray travel is not in straight lines through bending vibration . lunar probes actual atmospheres. The resulting range errors flutter . . Ranger lunar probes are generally insignificant. forced vibration . . Ranger 1 lunar probe GS errors lattice vibrations unmanned spacecraft . range errors linear vibration . space probes accuracy missile vibration . . lunar probes boresight error ... Ranger lunar probes noise (sound) distance measuring equipment self induced vibration .... Ranger 1 lunar probe error analysis structural vibration error signals torsional vibration Ranger 2 lunar probe GS lunar spacecraft range finders random walk . lunar probes range indicators stochastic processes . . Ranger lunar probes GS GS measuring instruments . random processes ... Ranger 2 lunar probe unmanned spacecraft . distance measuring equipment . random walk . . range finders RT Markov chains . space probes . . . optical range finders Monte Carlo method . . lunar probes . . laser range finders . . . Ranger lunar probes altimeters .... Ranger 2 lunar probe fire control (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN geodimeters Ranger 3 lunar probe laser ranger/tracker GS lunar spacecraft . lunar probes RT distance lunar rangefinding orbital position estimation navigation aids . . Ranger lunar probes range (extremes) position indicators ... Ranger 3 lunar probe ranges (facilities) radar equipment rangefinding unmanned spacecraft range (extremes) . space probes sound localization ŪF extrema space perception . . lunar probes Gumbel theory ... Ranger lunar probes stadimeters GS range (extremes) .... Ranger 3 lunar probe tellurometers . dynamic range . frequency ranges Ranger 4 lunar probe range indicators . . octaves USE range finders GS lunar spacecraft . . radio range . lunar probes . . subaudible frequencies . . Ranger lunar probes range measurement . proportional limit USE rangefinding . . Ranger 4 lunar probe Roche limit unmanned spacecraft confidence limits . space probes range resources constraints . . lunar probes resources GS distance . . . Ranger lunar probes . Earth resources domains . Ranger 4 lunar probe . . range resources RT Atlas Agena B launch vehicle dynamic characteristics range safety functions (mathematics) ĞS Ranger 5 lunar probe safety heterogeneity lunar spacecraft range safety horizon aerospace safety . lunar probes integral equations impact prediction . . Ranger lunar probes missile ranges ... Ranger 5 lunar probe ∞ limits maxima test ranges unmanned spacecraft trajectory control . space probes mean . . lunar probes minima . . . Ranger lunar probes optimization rangefinding .... Ranger 5 lunar probe quality control ŪF range measurement ∞ range ranging sensitivity GS rangefinding Ranger 6 lunar probe standard deviation . airborne range and orbit GS lunar spacecraft statistical tests determination . lunar probes

. laser ranging
. lunar rangefinding

. sound ranging

. . Ranger lunar probes

unmanned spacecraft

. . . Ranger 6 lunar probe

tolerances (mechanics) tolerances (physiology)

∞ travel

|          | . space probes                            |         | Ranger 6 lunar probe  |          | vapor pressure  |
|----------|---|---------|---|----------|---|
|          | lunar probes                              |         | Ranger 7 lunar probe  | DADCO    | NN (control)  |
|          | Ranger lunar probes Ranger 6 lunar probe  |         | Ranger 8 lunar probe Ranger 9 lunar probe Ranger lunar landing vehicles   |          | radar approach control  |
|          | 7 lunar probe<br>lunar spacecraft         | RT      | Atlas Agena B launch vehicle  |          | allistics identification identifying                                    |
|          | . lunar probes                            | Ranger  | project   |          | . rapid ballistics identification                                       |
|          | Ranger lunar probes                       |         | programs  | RT       | display devices   |
|          | Ranger 7 lunar probe                      |         | . NASA programs   |          | imaging techniques  |
|          | unmanned spacecraft                       |         | NASA space programs   |          | laser applications  |
|          | . space probes lunar probes               |         | Ranger project  |          | lasers measuring instruments  |
|          | Ranger lunar probes                       |         | Agena B Ranger Program . projects   |          | photography   |
|          | Ranger 7 Iunar probe                      |         | . Ranger project  |          | scanning  |
|          |   |         | Agena B Ranger Program  |          | stimulated emission   |
|          | 8 lunar probe                             |         | . space programs  |          | stimulated emission devices   |
| GS       | lunar spacecraft                          |         | NASA space programs   | rapid a  | vo movement state   |
|          | . lunar probes Ranger lunar probes        |         | Ranger project  |          | ye movement state<br>desynchronized sleep                               |
|          | Ranger 8 Iunar probe                      | PT      | Agena B Ranger Program Agena B rocket vehicle   | -        | REMS  |
|          | unmanned spacecraft                       | IXI     | Agena rocket vehicles   | RT       | dreams  |
|          | . space probes                            |         | Atlas launch vehicles   |          | eye movements   |
|          | lunar probes                              |         | lunar photographs   |          | sleep   |
|          | Ranger lunar probes                       |         | lunar photography   | rapid p  | rototyping  |
|          | Ranger 8 lunar probe                      |         | lunar probes  |          | ed November 2001)   |
| Ranger   | 9 lunar probe                             | _       |   |          | The fabrication of functional prototype                                 |
|          | lunar spacecraft                          |         | satellites  |          | short turn-around time in order to sup                                  |
|          | . lunar probes                            | USE     | Ranger lunar probes   |          | odel verification, reduce design-cyc                                    |
|          | Ranger lunar probes                       |         | W1144 - A   | time, or | reduce the overall cost of developmen                                   |
|          | Ranger 9 lunar probe                      |         | (facilities)  |          | f advanced manufacturing technologie                                    |
|          | unmanned spacecraft                       | GS      | ranges (facilities) . test ranges   |          | quickly generate three-dimensional ol                                   |
|          | . space probes                            |         | ballistic ranges  |          | rectly from computer-based models.                                      |
|          | lunar probes                              |         | missile ranges  | KI       | computer aided design computer aided manufacturing                      |
|          | Ranger lunar probes Ranger 9 lunar probe  | RT      | radio beacons   |          | cost reduction  |
|          | Kanger 3 Iunar probe                      | c       | ∘ range   |          | fabrication   |
| Ranger   | block 3 television system                 |         |   |          | product development   |
| GS       | communication equipment                   | ranging |   |          | prototypes  |
|          | . spacecraft television                   | USE     | rangefinding  |          | three dimensional models  |
|          | Ranger block 3 television                 |         |   | ranid a  | uonohina (motollurau)   |
|          | system<br>telecommunication               | rank te |   |          | uenching (metallurgy) Rapid cooling of molten metals or a               |
|          | . spacecraft television                   | GS      | statistical analysis . statistical tests  |          | achieve maximum uniformity in the crys                                  |
|          | . Ranger block 3 television               |         | rank tests  |          | cture. Used for rapid solidification.                                   |
|          | system                                    | RT o    | ∘ tests   | UF       | rapid solidification  |
|          | television systems                        |         | 10010   | GS       | cooling   |
|          | . spacecraft television                   | Rankin  | e cycle   |          | . quenching (cooling)   |
|          | Ranger block 3 television                 |         | An ideal thermodynamic cycle consist-   | DT       | rapid quenching (metallurgy)  |
| БТ       | system                                    |         | eat addition at constant pressure, isen-  | RT       | crystal growth  |
| KI∝      | systems                                   |         | expansion, heat rejection at constant   |          | crystal lattices<br>crystal structure                                   |
| Ranger   | lunar landing vehicles                    |         | e, and isentropic compression; used as  | c        | o metallurgy  |
| GS       | lunar spacecraft                          |         | I standard for the performance of heat-   |          | ∘ quenching   |
|          | . lunar probes                            |         | and heat-pump installations operating condensable vapor as the working fluid,   |          |   |
|          | Ranger lunar probes                       |         | a steam power plant.  |          | olidification   |
|          | Ranger lunar landing vehicles             | GS      | cycles  | USE      | rapid quenching (metallurgy)  |
|          | unmanned spacecraft                       |         | . thermodynamic cycles  |          | solidification  |
|          | . space probes                            |         | Rankine cycle   | rapid tr | ansit systems   |
|          | lunar probes Ranger lunar probes          | RT      | ASTEC solar turboelectric generator   | UF       | high speed transportation   |
|          | Ranger lunar landing vehicles             |         | Brayton cycle   | GS       | transportation  |
| RT       | BE-3 engine                               |         | Carnot cycle laser propulsion   |          | . rapid transit systems   |
| ×        | vehicles                                  |         | Otto cycle  | RT       | air transportation  |
| _        |   |         | solar dynamic power systems   |          | automated guideway transit vehicles                                     |
|          | lunar probes                              |         | solar generators  |          | automated transit vehicles  |
| UF<br>GS | Ranger satellites lunar spacecraft        |         | thermodynamics  |          | cargo<br>ground effect machines   |
| 03       | . lunar probes                            |         |   |          | highways  |
|          | Ranger lunar probes                       |         | e-Hugoniot relation   |          | logistics   |
|          | Ranger 1 lunar probe                      |         | aerothermodynamics  |          | passengers  |
|          | Ranger 2 lunar probe                      | c       | density     density |          | rail transportation   |
|          | Ranger 3 lunar probe                      |         | pressure gradients shock wave propagation   |          | rails   |
|          | Ranger 4 lunar probe                      |         | SHOCK wave propagation  |          | roads   |
|          | Ranger 5 lunar probe                      | ranking | 1   |          | systems   |
|          | Ranger 6 lunar probe Ranger 7 lunar probe | RT      | arrays  | c        | <ul> <li>transport vehicles</li> <li>transportation networks</li> </ul> |
|          | Ranger 7 lunar probe                      | 111     | comparison  |          | urban transportation  |
|          | Ranger 9 lunar probe                      |         | evaluation  |          | a.za.i danoportadori  |
|          | Ranger lunar landing vehicles             |         | ratings   | rapids   |   |
|          | unmanned spacecraft                       |         | selection   | RT       | meanders  |
|          | . space probes                            |         | sequencing  |          | river basins  |
|          | lunar probes                              |         | value   |          | rivers  |
|          | Ranger lunar probes                       | _       |   |          | streams   |
|          | Ranger 1 lunar probe                      | Raoult  |   |          | water currents  |
|          | Ranger 2 lunar probe                      | RT      | composition (property)  |          | water flow  |
|          | Ranger 3 lunar probe                      |         | Henry law   | rara aa  | rth allove  |
|          | Ranger 4 lunar probe Ranger 5 lunar probe |         | partial pressure solutions  |          | rth alloys<br>alloys  |
|          | Ivaniger o luliar probe                   |         | SOIGHOUS  | GS       | anoyo   |

|          | . rare earth alloys                        | lutetium isotopes                                 | gases are used as the amplifying medium.         |
|----------|--|---|--|
|          | erbium alloys                              | neodymium   | GS stimulated emission devices                   |
|          | gadolinium alloys                          | neodymium isotopes                                | . lasers   |
|          | lanthanum alloys                           | praseodymium                                      | gas lasers                                       |
|          | mischmetal                                 | praseodymium isotopes                             | rare gas-halide lasers                           |
|          | neodymium alloys                           | promethium  | krypton fluoride lasers                          |
| RT       | yttrium alloys                             | promethium isotopes                               | xenon chloride lasers                            |
|          |  | samarium  | xenon fluoride lasers                            |
| rare ear | rth compounds                              | samarium isotopes                                 | RT coherent light                                |
| GS       | rare earth compounds                       | scandium  | laser pumping                                    |
|          | . cerium compounds                         | scandium isotopes                                 | lasing   |
|          | bastnasite                                 | terbium<br>terbium isotopes                       | light beams optical pumping                      |
|          | cerium oxides                              | thulium   | stimulated emission                              |
|          | . dysprosium compounds                     | thulium isotopes                                  | Stillidated ethiosion                            |
|          | . erbium compounds                         | ytterbium   | rarefaction                                      |
|          | . europium compounds                       | ytterbium isotopes                                | RT antinodes                                     |
|          | . lanthanum tellurides                     | yttrium   | compressing                                      |
|          | . lutetium compounds . neodymium compounds | yttrium isotopes                                  | elastic waves                                    |
|          | . praseodymium compounds                   | RT alkali vapor lamps                             | expansion  |
|          | . samarium compounds                       | kreep   | vacuum   |
|          | . scandium compounds                       | neodymium lasers                                  |  |
|          | scandium oxides                            | transition metals                                 | rarefaction waves                                |
|          | . terbium compounds                        |   | USE elastic waves                                |
|          | . thulium compounds                        | ∞ rare gas compounds                              |  |
|          | . ytterbium compounds                      | SN (USE OF A MORE SPECIFIC TERM IS                | rarefied gas dynamics                            |
| RT 。     | chemical compounds                         | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)     | GS fluid mechanics                               |
|          | • Group 3B compounds                       | RT ∞ chemical compounds                           | fluid dynamics                                   |
|          | ∘ metal compounds                          | excimer lasers                                    | gas dynamics                                     |
|          |  | excimers  | rarefied gas dynamics                            |
| roro oo  | rth elements                               | helium compounds                                  | RT atomic beams                                  |
| UF       | lanthanide series metals                   | xenon compounds                                   | BGK model  |
| GS       | chemical elements                          | · ·   | Chapman-Enskog theory                            |
| 00       | . rare earth elements                      | rare gases  | continuum flow                                   |
|          | cerium                                     | DEF Gases such as helium, neon, argon,            | ∞ dynamics<br>free molecular flow                |
|          | cerium isotopes                            | krypton, xenon, and radon, all of whose shells of | Knudsen flow                                     |
|          | cerium 137                                 | planetary electrons contain stable numbers of     | low density flow                                 |
|          | cerium 144                                 | electrons so that the atoms are almost com-       | low density mow                                  |
|          | dysprosium                                 | pletely chemically inactive. Used for inert gases | molecular beams                                  |
|          | dysprosium isotopes                        | and noble gases.  UF inert gases                  | molecular flow                                   |
|          | erbium                                     | noble gases                                       | plasmas (physics)                                |
|          | erbium isotopes                            | GS chemical elements                              | slip flow  |
|          | europium                                   | . rare gases                                      | transition flow                                  |
|          | europium isotopes                          | argon   |  |
|          | gadolinium                                 | argon isotopes                                    | rarefied gases                                   |
|          | gadolinium isotopes                        | helium  | UF low density gases                             |
|          | holmium                                    | helium isotopes                                   | GS gases   |
|          | holmium isotopes                           | liquid helium                                     | . rarefied gases                                 |
|          | lanthanum                                  | liquid helium 2                                   | cosmic gases                                     |
|          | lanthanum isotopes                         | krypton   | interplanetary gas                               |
|          | lutetium                                   | krypton isotopes                                  | interstellar gas                                 |
|          | lutetium isotopes                          | krypton 85  | RT electron gas                                  |
|          | neodymium                                  | neon  | free molecular flow                              |
|          | neodymium isotopes praseodymium            | liquid neon                                       | gas density                                      |
|          |  | neon isotopes                                     | gas temperature                                  |
|          | praseodymium isotopes promethium           | radon   | high temperature gases                           |
|          | promethium isotopes                        | radon isotopes                                    | low density flow<br>low density research         |
|          | samarium                                   | xenon   | molecular gases                                  |
|          | samarium isotopes                          | xenon isotopes                                    | molecular gases                                  |
|          | scandium                                   | xenon 129<br>xenon 133                            | rarefied plasmas                                 |
|          | scandium isotopes                          | xenon 135   | GS gases   |
|          | terbium                                    | gases   | . rarefied plasmas                               |
|          | terbium isotopes                           | . rare gases                                      | particles  |
|          | thulium                                    | argon   | . charged particles                              |
|          | thulium isotopes                           | argon isotopes                                    | energetic particles                              |
|          | ytterbium                                  | helium  | plasmas (physics)                                |
|          | ytterbium isotopes                         | helium isotopes                                   | rarefied plasmas                                 |
|          | yttrium                                    | liquid helium                                     | . corpuscular radiation                          |
|          | yttrium isotopes                           | liquid helium 2                                   | energetic particles                              |
|          | metals                                     | krypton   | plasmas (physics)                                |
|          | . rare earth elements                      | krypton isotopes                                  | rarefied plasmas                                 |
|          | cerium                                     | krypton 85  | RT cathode glow                                  |
|          | cerium isotopes cerium 137                 | neon  | cold plasmas                                     |
|          |  | liquid neon                                       | collisionless plasmas                            |
|          | cerium 144<br>dysprosium                   | neon isotopes                                     | electron plasma<br>nonuniform plasmas            |
|          | dysprosium isotopes                        | radon   | nonunilionii piasiilds                           |
|          | erbium                                     | radon isotopes                                    | rasers   |
|          | erbium isotopes                            | xenon   | USE masers                                       |
|          | europium                                   | xenon isotopes                                    |  |
|          | europium isotopes                          | xenon 129   | raster scanning                                  |
|          | gadolinium                                 | xenon 133   | DEF Sweeping a cathode ray screen or a           |
|          | gadolinium isotopes                        | xenon 135 RT monatomic gases                      | antenna beam characterized by a network of       |
|          | holmium                                    | RT monatomic gases nonpolar gases                 | parallel sweeps either from side to side or from |
|          | holmium isotopes                           | Ramsauer effect                                   | top to bottom.                                   |
|          | lanthanum                                  | Namoudol Glicot                                   | GS imaging techniques                            |
|          | lanthanum isotopes                         | rare gas-halide lasers                            | . raster scanning                                |
|          | lutetium                                   | DEF A class of lasers in which the inert          | scanning   |
|          |  |   | <del>-</del>                                     |

| RT      | . raster scanning cathode ray tubes                 |                     | . pulse rate pulse repetition rate               |            | . Mach number . mass ratios   |
|---------|---|---------------------|--|------------|---|
| KI      | computer graphics                                   |                     | . radial velocity                                |            | mass to light ratios  |
|         | display devices                                     |                     | . recombination coefficient                      |            | mixing ratios   |
|         | image processing                                    |                     | . relativistic velocity                          |            | payload mass ratio  |
|         | images  |                     | . respiratory rate                               |            | propellant mass ratio   |
|         | picture tubes television cameras                    |                     | dyspnea  |            | . Mills ratio   |
|         | television cameras                                  |                     | hypoventilation tachypnea                        |            | . modular ratios<br>. Nusselt number  |
| ate me  | ters  |                     | . rotor speed                                    |            | . Peclet number   |
| USE     | measuring instruments                               |                     | . signal fading rate                             |            | . perveance   |
| -46     | alimb indicators                                    |                     | . solar velocity                                 |            | . Poisson ratio   |
| GS      | climb indicators aircraft instruments               |                     | . star formation rate                            |            | . Prandtl number  |
| 00      | . rate of climb indicators                          |                     | . strain energy release rate . strain rate       |            | . pressure ratio . Rayleigh number  |
| RT      | altimeters  |                     | . subsonic speed                                 |            | . Reynolds number   |
|         | flight instruments                                  |                     | . supersonic speed                               |            | high Reynolds number  |
| 0       | o indicators  |                     | . systole  |            | low Reynolds number   |
| ates (r | per time)   |                     | . terminal velocity                              |            | . Brinkman number   |
| GS"     |   |                     | . tip speed . transmission rate (communications) |            | . Richardson number . scale (ratio)   |
|         | . acceleration (physics)                            |                     | . transonic speed                                |            | . Schmidt number  |
|         | angular acceleration                                |                     | . wind velocity                                  |            | . signal to noise ratios  |
|         | deceleration spin reduction                         |                     | solar wind velocity                              |            | . similarity numbers  |
|         | electron acceleration                               | RT                  | access time                                      |            | . standing wave ratios  |
|         | . high acceleration                                 |                     | MTBF solitary waves                              |            | . Stanton number . stress ratio   |
|         | high gravity environments                           |                     | time functions                                   |            | . Strouhal number   |
|         | impact acceleration                                 |                     | time measurement                                 |            | . temperature ratio   |
|         | particle acceleration plasma acceleration           |                     | volume   |            | . thrust-weight ratio   |
|         | transverse acceleration                             |                     |  |            | . void ratio  |
|         | . acoustic velocity                                 | ratings<br>GS       | ratings  | RT         | dynamic range   |
|         | . airspeed  | 00                  | . pilot ratings                                  |            | efficiency<br>fractals  |
|         | . angular velocity                                  |                     | Cooper-Harper ratings                            |            | fractions   |
|         | . bit error rate                                    | RT                  | assessments                                      |            | proportion  |
|         | . burning rate . collision rates                    |                     | consistency                                      |            | psychological tests   |
|         | . critical velocity                                 |                     | evaluation                                       |            | refractivity  |
|         | . decay rates                                       | ∞                   | normalizing (statistics) performance             |            |   |
|         | electron decay rate                                 |                     | position (title)                                 | rats<br>GS | animals   |
|         | . drift rate  |                     | ranking  | 00         | . vertebrates   |
|         | . escape velocity                                   |                     |  |            | mammals   |
|         | . evaporation rate . exhaust velocity               | ratiomet<br>GS      |  |            | rodents   |
|         | . flow velocity                                     | GS                  | measuring instruments . ratiometers              | DT         | rats  |
|         | solar wind velocity                                 |                     | . rationicters                                   | RT         | mice  |
|         | . flux (rate)                                       | rational            | functions  |            | pocket mice   |
|         | heat flux   | GS                  | analysis (mathematics)                           | RATSCA     | AT program  |
|         | magnetic flux solar flux                            |                     | . complex variables                              |            | radar target scatter site program   |
|         | . flux density                                      |                     | rational functions                               |            |   |
|         | current density                                     |                     | functions (mathematics)                          |            | nelicopter  |
|         | photon density                                      |                     | . meromorphic functions                          | USE        | OH-23 helicopter  |
|         | radiant flux density                                |                     | rational functions                               | ravines    |   |
|         | irradiance  | rations             |  |            | landforms   |
|         | solar constant                                      |                     | rations  | 00         | . ravines   |
|         | lumens  | 00                  | . space rations                                  | RT         | canyons   |
|         | luminous intensity                                  | RT ∞                |  |            | erosion   |
|         | illuminance   |                     |  |            | river basins  |
|         | luminance particle flux density                     | <b>ratios</b><br>UF | percentage                                       |            | topography<br>valleys   |
|         | electron flux density                               |                     | ratios   |            | water erosion   |
|         | neutron flux density                                |                     | . aspect ratio                                   |            |   |
|         | proton flux density                                 |                     | fineness ratio                                   | rawinso    |   |
|         | radiance  |                     | high aspect ratio                                | DEF        | Combinations of raob and rawin; ob-   |
|         | radiancy  |                     | low aspect ratio                                 |            | ns of temperature, pressure, relative hu-   |
|         | solar flux density solar constant                   |                     | thickness ratio<br>. Biot number                 |            | and winds-aloft by means of radiosonde<br>io direction finding equipment of radar |
|         | sound intensity                                     |                     | . bypass ratio                                   | tracking.  |   |
|         | zero sound  |                     | . compression ratio                              |            | measuring instruments   |
|         | . ground speed                                      |                     | . fiber volume fraction                          |            | . meteorological instruments  |
|         | . group velocity                                    |                     | . Froude number                                  |            | . radiosondes   |
|         | . heart rate arrhythmia                             |                     | . fuel-air ratio . Grashof number                |            | rawinsondes<br>. sondes   |
|         | bradycardia   |                     | . Hartmann number                                |            | radiosondes   |
|         | tachycardia   |                     | . hematocrit ratio                               |            | rawinsondes   |
|         | high speed  |                     | . indexes (ratios)                               |            | radio equipment   |
|         | . hypersonic speed                                  |                     | KP index   |            | . radio transmitters  |
|         | . ion production rates                              |                     | morphological indexes                            |            | radiosondes   |
|         | . landing speed . light speed                       |                     | leaf area index                                  |            | rawinsondes<br>transmitters   |
|         | . loading rate                                      |                     | normalized difference vegetation                 |            | . radio transmitters  |
|         | . low speed   |                     | index  |            | . radiosondes   |
|         | . mass flow rate                                    |                     | . isotope ratios                                 |            | rawinsondes   |
|         | . orbital velocity                                  |                     | . Laval number                                   | RT         | dropsondes  |
|         | . phase velocity                                    |                     | . Lewis numbers                                  |            | meteorological balloons radar tracking  |
|         | physiological acceleration     propagation velocity |                     | . lift drag ratio . likelihood ratio             |            | radio tracking  |
|         | . p. spaganon voiconty                              |                     |  |            | y   |

wind measurement

ray acoustics

USE geometrical acoustics

ray casting (added May 1997) USE ray tracing

ray optics

USE geometrical optics

ray tracing
DEF A procedure used in the graphical determination of the path followed by a single ray of radiant energy as it travels through media of varying indices of refraction.

UF ray casting

ray casting RT diffraction geometrical optics geometrical theory of diffraction gradient index optics grazing incidence optical measurement reflectance tracking (position) transmittance

#### Rayleigh distribution

functions (mathematics)

probability density functions

Rayleigh distribution statistical analysis

. probability density functions

. Rayleigh distribution statistical distributions

. Rayleigh distribution error analysis operations research radial distribution

#### Rayleigh equations

RT ∞ equations flow equations heat transfer thermodynamics

#### Rayleigh fading

(added June 2000)

Rapid-fluctuation, small-scale fading resulting from multipath effects, and typically occurring in non-line-of-sight (NLOS) environments.

GS

fading . signal fading

. Rayleigh fading

channels (data transmission) mobile communication systems multipath transmission phase shift keying radio signals reception diversity

#### Rayleigh number

GS dimensionless numbers

Rayleigh number ratios

Rayleigh number

Benard cells buoyancy

Rayleigh-Benard convection

# Rayleigh scattering

DEF Any scattering process produced by spherical particles whose radii are smaller than about one tenth the wavelength of the scattered radiation.

GS scattering

. wave scattering

. . electromagnetic scattering

. . . Mie scattering

... Rayleigh scattering

RT airglow gray gas light scattering Raman spectroscopy skv

#### Rayleigh waves

Two dimensional barotropic distur-DEF

bances in a fluid having one or more discontinuities in the vorticity profile. Surface waves associated with the free boundary of a solid, such that a surface particle describes an ellipse whose major axis is normal to the surface and whose center is at the undisturbed surface. At maximum particle displacement away from the solid surface the motion of the particle is opposite to that of the wave.

elastic waves . seismic waves

Rayleigh waves barotropic flow

fluid flow S waves

two dimensional flow

#### Rayleigh-Benard convection

The flow of a fluid contained between horizontal thermally conducting plates and heated from below. The Rayleigh number is proportional to the temperature difference between the plates.

GS convection

. free convection

... Rayleigh-Benard convection

. Benard cells fluid flow

. convective flow

. . Rayleigh-Benard convection

. Benard cells

buoyancy-driven flow convection currents convection-diffusion equation convective heat transfer forced convection hot surfaces laminar flow

Rayleigh number solar convection (astronomy) stellar convection thermal boundary layer

Rayleigh-Ritz method

analysis (mathematics) . numerical analysis

. . approximation ... Rayleigh-Ritz method

RT ∞ methodology variational principles

### rayon

A manufactured fiber composed of regenerated cellulose, as well as fibers composed of regenerated cellulose in which substituents have replaced not more than 15 percent of the hydrogens of the hydroxyl groups.

fibers

. synthetic fibers

. rayon textiles

. rayon

rays

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) atmospheric radiation

RT background noise beams (radiation) caustics (optics) coherent radiation continuous radiation corpuscular radiation electromagnetic radiation extraterrestrial radiation

gamma ravs lunar rays polarized radiation pulsed radiation

#### Raytheon computers

GS data processing equipment . computers

. . digital computers

... Raytheon computers

#### razor blades

GS cutters

. blades (cutters)

. . razor blades

RB-47 aircraft

USE **B-47 aircraft** 

RB-50 aircraft

USE **B-50** aircraft

RB-57 aircraft

USE **B-57 aircraft** 

RB-66 aircraft

USE B-66 aircraft

RBCC engines

(added August 1999)

USE rocket-based combined-cycle engines

RBE

USE relative biological effectiveness (RBE)

**RC** circuits

RC networks UF GS circuits

. RC circuits

capacitance coupling circuits discriminators electric filters electrical resistance LC circuits network analysis

network synthesis RLC circuits time constant

transconductance

USE RC circuits

RC networks

**RCA** computers GS data processing equipment

. computers

... RCA computers

... RCA spectra 70 computer

. RCA-110 computers

data processing

#### **RCA Satcom satellites**

DEF Domestic commercial communications satellites launched by NASA for the RCA Corpo-

artificial satellites

. communication satellites

. . RCA Satcom satellites commercial spacecraft

**RCA Satcom satellites** Delta launch vehicle

domestic satellite communications systems

#### RCA spectra 70 computer

GS data processing equipment

. computers

. . digital computers

. RCA spectra 70 computer

... RCA computers

... RCA spectra 70 computer

### **RCA-110 computers**

GS data processing equipment

. computers

. . RCA computers

... RCA-110 computers

RCB stars

USE R Coronae Borealis stars

**RDX** 

cyclotrimethylene trinitramine UF trinitrotriazocyclohexane

GS explosives

. RDX

nitrogen compounds

. azo compounds

. . RDX

organic compounds

. cyclic compounds

. . heterocyclic compounds

. . . RDX also be the desired product of two or more inital refractory period propellants reacting materials. sensitivity RDX sensorimotor performance products pyrotechnics . reaction products step functions solid propellants . reaction intermediates time constant solid rocket propellants chemical reactions time lag reaction kinetics reactance synthesis (chemistry) reaction wheels electrical properties inertia wheels . electrical impedance reaction jet backpacks GS wheels . reactance USE self maneuvering units . reaction wheels attitude control impedance . electrical impedance reaction jets counter-rotating wheels . reactance USE jet flow flywheels capacitance jet thrust electrical resistance reaction-diffusion equations Foster theory reaction kinetics (added July 1994) inductance UF chemical kinetics RT combustion physics reaction rate convection-diffusion equation Smith chart GS kinetics diffusion coefficient transconductance . reaction kinetics ∞ equations reactance amplifiers amino radical Ficks equation association reactions partial differential equations USE parametric amplifiers autocatalysis reaction kinetics catalysis reacting flow transport theory (added August 1991) chemical equilibrium DEF Fluid flows in which chemical reactions chemical reactions reactive centers are occurring or potentially can occur. Used for combustion chemistry (added August 2004) chemically reacting flow. Damkohler number USE active sites (chemistry) chemically reacting flow Fischer-Tropsch process GS half life fluid flow reacting flow The ability to react. For proper use of heat of dissociation the term, the reaction in question and the con-. combustible flow interstellar chemistry boundary layer combustion chemical reactions ditions should be stated and the parameter used irreversible processes nitrous acid in measuring reactivity indicated, such as rate, combustion chemistry nuclear reactions uniformity, or the like. detonable gas mixtures pressure dependence reactivity reacting flow photorefractivity direct numerical simulation chemical reactions reaction intermediates flame propagation reaction-diffusion equations inhour equation  $\infty$  flow reagents nuclear reactions fuel flow premixed flames solvation reactor chemistry propellant combustion USE radiochemistry reaction products reaction kinetics DEF The substances formed in a chemical turbulent combustion reaction -- the desired items as well as the reactor cores turbulent flow DEF In nuclear reactors, the regions conunwanted fumes, sludge, residues, etc. taining the fissionable material. GS products ∞ reaction reaction products (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) GS cores SN . reactor cores . . combustion products annular core pulse reactors . . . soot chemical reactions control rods . reaction intermediates human reactions nuclear fuel elements ashes irritation nuclear fuels by-products nuclear reactions nuclear reactors effluents thrust ∞ operators engines plasma core reactors exhaust gases reaction bonding
DEF Chemical combining of ingredients to reflectometers fumes gases reflectors produce silicon nitride ceramics. infrared suppression void ratio bonding . reaction bonding GS jet engines reactor design precipitates aluminum residues annular core pulse reactors ceramics blankets (fission reactors) slags chemical reactions blankets (fusion reactors) sludge melting points chemical reactors nitrogen reaction rate computer aided design oxygen USE reaction kinetics ∞ design powder metallurgy engine design sialon reaction time engineering test reactors silicon DEF In human engineering, the interval be-Hanford reactors silicon nitrides tween an input signal (physiological) or a stimuhigh temperature nuclear reactors sintering lus (psychophysiological) and the response eliclimiters (fusion reactors) ited by the signal. Used for reverse time. nuclear reactors ∞ reaction control reverse time nuclear research and test reactors (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) GS time offshore reactor sites . reaction time organic cooled reactors chemical reaction control . . chronaxy pebble bed reactors  $\infty$  control adaptation product development directional control conditioned reflexes Marquardt R4D engine dynamic characteristics reactor fuels dynamic response nuclear reactor control USE nuclear fuels reactor safety human reactions thrust control perceptual time constant reactor in flight test program physiological effects USE RIFT (reactor in flight test) reaction intermediates pontryagin principle (added August 2004) psychological effects reactor materials DEF Substances formed during or contribannular core pulse reactors blankets (fission reactors) psychomotor performance

ramp functions

reflexes

uting towards, the synthesis or metabolism of

other products. Reaction intermediates may

blankets (fusion reactors)

#### reactor physics

chemical reactors SNAPTRAN reactor recording of events is simultaneous with the spheromaks automatic control swimming pool reactors coolants limiters (fusion reactors) thermal reactors computer programming loss of coolant tokamak devices computers display devices ∞ materials water cooled reactors materials selection integrated mission control center moderators readers multiprocessing (computers) nuclear fuel elements UF reading machines onboard data processing RT character recognition nuclear fuels windows (computer programs) conical scanning nuclear reactors ∞ detectors pressure vessels real variables magnetic tapes radiation shielding GS analysis (mathematics) microfilms spent fuels . real variables optical data processing . . Abel function reactor physics optical scanners asymptotes nuclear physics pattern recognition GS . . Bessel functions . reactor physics annular core pulse reactors punched cards . Hankel functions punched tapes . . Bethe-Salpeter equation reading beta factor . . calculus of variations Hanford reactors . . composite functions reading inhour equation . . delta function GS reading nuclear fuel burnup . . differential equations lip reading nuclear reactors Blasius equation Chandrasekhar equation ∞ physics character recognition conical scanning ∞ science data transmission cosine series Duffing differential equation display devices reactor safety Falkner-Skan equation input DEF Theoretical and experimental investihyperbolic differential equations ∞ interpretation gations of the behavior of reactor types and Lame wave equations designs under various real or hypothetical accilegibility perception partial differential equations dents. biharmonic equations printing GS safety Burger equation readers . reactor safety Cauchy-Riemann equations scanners annular core pulse reactors . . . . elliptic differential equations chemical reactors scanning . . . . Monge-Ampere equation symbols control rods **Euler-Cauchy equations** visibility explosions .... Ffowcs Williams-Hawkings industrial safety equation nuclear reactor control reading machines .... Fokker-Planck equation USE readers nuclear reactors . . . . Gauss equation offshore reactor sites . . . Helmholtz vorticity equation readiustment radiation hazards . . . . Liouville equations USE adjusting ∞ reaction control ... parabolic differential equations relief valves Poisson equation read-only memory devices Transient Reactor Test Facility DEF Computer devices for storing data in . vlasov equations permanent or nonerasable form. Used for ROM Riccati equation reactor startup tests ... vorticity equations devices GS fuel tests . Helmholtz vorticity equation UF ROM devices reactor startup tests . . Einstein equations GS computer components RT initiation . . existence theorems . computer storage devices . . read-only memory devices
. . . CD-ROM nuclear fuels . . extremum values nuclear reactors . . . limits (mathematics) starting . . . maxima computer design ∞ tests computer systems design . . . minima . . . . Cramer-Rao bounds computers reactor technology . . Fourier-Bessel transformations GS technologies . . Green's functions
. . hyperbolic functions readout . reactor technology RT display devices annular core pulse reactors multiple output programs . . hyperplanes ∞ engineering engineering test reactors output . . Jacobi integral Jacobi matrix method printers (data processing) Hanford reactors printouts . . kernel functions high temperature nuclear reactors remote consoles . . Liapunov functions Joint European Torus . . linear equations nuclear fuel burnup ... Ffowcs Williams-Hawkings reagents nuclear reactors RT catalysts equation nuclear research and test reactors chemical analysis ... linear evolution equations offshore reactor sites chemical reactions ... Riccati equation organic cooled reactors reaction kinetics . . Lipschitz condition pebble bed reactors ... measure and integration reverse field pinch real gases binary integration Borel sets GS gases ∞ reactors real gases functional integration (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) equations of state . . . integral calculus gas density J integral annular core pulse reactors . . . Lebesgue theorem ideal gas chemical reactors kinetic theory ... numerical integration . Runge-Kutta method electric reactors molecular gases Stieltjes integral fast test reactors monatomic gases ... weighting functions fusion reactors fusion-fission hybrid reactors real numbers . . Neumann problem high temperature nuclear reactors real numbers . . nonlinear equations GS molten salt nuclear reactors cubic equations integers Duffing differential equation nuclear reactors complex numbers ... Monge-Ampere equation
... nonlinear evolution equations nuclear research and test reactors ∞ numbers

real time operation

Time in which reporting on events or

. . . quadratic equations

... quartic equations

plasma core reactors

RIFT (reactor in flight test)

power reactors

. . numerical differentiation Used for receiving systems. RT charge efficiency . . periodic functions UF receiving systems . . . trigonometric functions receivers reciprocal theorems . cosine series linear receivers theorems ... sine series . logarithmic receivers . reciprocal theorems . . tangents . radar receivers angles (geometry) . . series (mathematics) . radio receivers geometry . asymptotic series . . superheterodyne receivers lines (geometry) ... Campbell-Hausdorff series . . transmitter receivers points (mathematics) . cosine series . . whistler recorders projective geometry . radiotelephones ... Fourier series . Pade approximation television receivers reciprocating engines . . . power series RT amplifiers USE piston engines ∞ detectors . . Taylor series . . MacLaurin series display devices reciprocation progressions duplexers ... Prony series electric filters RT cycles mechanical oscillators . sine series instrument receivers . . Sturm-Liouville theory ∞ receiving piston engines . . vector analysis pistons repeaters tanks (containers) . . . coplanarity teleprinters reciprocity theorem teletypewriters ... curl (vectors) DEF Any theorem expressing reciprocal re-. vorticity transmitters lations for the behavior of some physical system .. Weierstrass functions in which input and output can be interchanged ∞ receiving . Whittaker functions without altering the response of the system to a (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) aperiodic functions SN given excitation. calculus GS theorems Cholesky factorization UF . reciprocity theorem reception acquisition complex variables acoustic scattering RT continuums electromagnetic fields collection dependent variables electromagnetic scattering delivery differential calculus wave scattering procurement factorization radar reception Fourier analysis radio reception recirculation Hermitian polynomial receivers USE circulation hyperspheres recognition infinity signal reception recirculative fluid flow inflection points television reception fluid flow maximum principle recirculative fluid flow monotone functions receiving systems backward facing steps Schmidt method USE receivers boundary layer flow stability derivatives boundary layer separation uniqueness theorem receptacles (containers) reversed flow ∞ variable USE containers turbulent flow turbulent mixing rearward facing steps reception vortices USE backward facing steps USE receiving reattached flow reception diversity reclamation fluid flow space diversity GS reclamation . viscous flow radio equipment . materials recovery . . boundary layer flow reception diversity . . gas recovery ... reattached flow RT fading . . nuclear fuel reprocessing . . solvolysis RT ∞ attachment radio antennas backward facing steps . . water reclamation
RT environmental cleanup radio receivers boundary layer separation radio reception Coanda effect Rayleigh fading oil recovery Crocco-Lee theory signal fading ∞ recovery flow characteristics recycling flow distribution receptors (physiology) regeneration (engineering) DEF Sensory nerve endings or organs in a separated flow waste management living organism that is sensitive to physical or reattachment chemical stimuli. recognition receptors (physiology) USE attachment GS The psychological process in which an . baroreceptors observer so interprets the visual or auditory REB chemoreceptors stimuli he receives from a distant object that he relativistic electron beams . gravireceptors forms a correct conclusion as to the exact nature . . otolith organs of that object or sound. rebreathing . mechanoreceptors GS recognition air purification photoreceptors . pattern recognition proprioceptors thermoreceptors carbon dioxide concentration . . character recognition carbon dioxide removal . . graphology expired air sense organs RT . speech recognition life support systems sensitometry . target recognition spacecraft cabin atmospheres . timber identification recesses acquisition RT cavities consciousness DEF Initial components or sensing elecrevasses crop identification ments of measuring systems. For example, the ∞ hollow identifying receiver of a thermoelectric thermometer is the IFF systems (identification) measuring thermocouple. Instruments used to recession ∞ interpretation detect the presence and to determine the infor-RT ∞ depression memory mation carried by electromagnetic radiation. Reeconomics ∞ receiving ceivers include circuits designed to detect, amremote sensing plify, rectify, and shape the incoming radio frerecharging quency signals received at the antenna in such DEF The restoring of discharged electric

storage batteries to a charged condition by passing direct current through them in a direc-

tion opposite to that of the discharging current.

recoil atoms

atoms

recoil atoms

GS

a manner that the information containing com-

ponent of the received energy can be delivered

to the desired indicating of recording equipment.

RT recoilings Reconnaissance System . data recording . photoreconnaissance . data smoothing recoil ions . magnetic recording spectral reconnaissance GS ions RT COSPAS . photographic recording recoil ions Earth resources . prediction recording RT atomic collisions observation playbacks charge exchange patrols plotting electron scattering photogeology privacy ion impact SarSat ∞ storage ion production rates searching ion scattering recording heads situational awareness ionic collisions RT data recording space observations (from Earth) magnetic recording recoilings space surveillance (spaceborne) magnetic tapes . surveillance recoil protons recording instruments survevs particles GS tape recorders terrain analysis . charged particles video equipment . . protons reconnaissance aircraft ... recoil protons Darkstar unmanned aerial vehicle recording instruments . elementary particles reconnaissance aircraft UF emissographs GS pluviographs . . fermions A-9 aircraft . . . protons Breguet 1150 aircraft Cessna L-19 aircraft thermograms ... recoil protons recording instruments bathythermographs RT barvons HS-801 aircraft . cable force recorders recoilings SR-71 aircraft . flight recorders TSR-2 aircraft recoilings . flight load recorders U-2 aircraft RT collisions . force vector recorders Victor MK-1 aircraft . mechanograms particle motion weather reconnaissance aircraft recoil atoms . oscillographs RT aerial reconnaissance recoil ions . plotters ∞ aircraft . x-y plotters recoil protons antisubmarine warfare aircraft . pressure recorders Earth Resources Survey aircraft recombinant DNA . radiometeorographs flying platforms USE deoxyribonucleic acid . seismographs jet aircraft . . lunar seismographs light aircraft recombination coefficient . tape recorders ∞ military aircraft DEF A measure of the specific rate at which . video tape recorders ∞ military aviation oppositely charged ions join to form neutral . weather data recorders military helicopters particles (a measure of ion recombination). . whistler recorders observation aircraft GS coefficients aircraft instruments pilotless aircraft . recombination coefficient automatic control submersible aircraft rates (per time) bubble technique supersonic aircraft recombination coefficient control equipment unmanned aircraft systems free electrons counters utility aircraft ion recombination data recorders V/STOL aircraft ionized gases electronic recording systems Valiant aircraft water takeoff and landing aircraft flight instruments recombination reactions graphs (charts) YF-12 aircraft GS recombination reactions indicating instruments . atomic recombination instrument receivers reconnaissance spacecraft . . oxygen recombination instrument transmitters GS military spacecraft . electron recombination ∞ instruments . reconnaissance spacecraft . radiative recombination measuring instruments . . Inspector satellite . electron-ion recombination meteorological instruments . . Midas satellites radiative recombination ∞ pens Midas 2 satellite . hydrogen recombinations photographic recording Midas 3 satellite ion recombination ∞ recorders Midas 4 satellite atomic collisions recording heads Midas 5 satellite capture effect sonograms Midas 6 satellite fertilization sphygmography Midas 7 satellite Suhl effect transducers . . photo reconnaissance spacecraft VLF emission recorders . . Samos recommendations aerial reconnaissance records GS recommendations artificial satellites suggestion GS documents manned orbital laboratories decision theory . records manned spacecraft general overviews . . video disks unmanned spacecraft RT case histories recompression data reconstruction USE compressing data processing GS reconstruction data recording image reconstruction reconfigurable hardware documentation wave front reconstruction (added September 2001) ∞ drawing RT construction DEF Electronic circuit devices whose archiformat restoration tectures can be programmatically modified to histories suit the application at hand. periodicals ∞ recorders GS reconfigurable hardware playbacks (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Presidential reports . programmable logic devices . . field-programmable gate arrays privacy evolvable hardware cable force recorders records management RT chips (electronics) data recorders reports supplements technical writing ∞ hardware playbacks recording instruments integrated circuits logic circuits registers (computers) ∞ tests tape recorders texts VLF emission recorders reconnaissance records management (added August 1989) GS reconnaissance

recording

GS recording

GS management

. aerial reconnaissance

. . Airborne Integrated

. information management space capsules RT rectangular planforms . records management ∞ spacecraft data management rectangular beams spacecraft recovery information resources management unmanned spacecraft GS structural members ∞ winged vehicles information systems . beams (supports) . rectangular beams management information systems records RT box beams ∞ recovery (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) booster recovery SN rectangular coordinates recoverability USE Cartesian coordinates RT damage assessment ∞ properties gas recovery rectangular drainage ∞ recovery loop transfer recovery USE drainage patterns recoverable launch vehicles materials recovery nuclear fuel reprocessing rectangular panels GS launch vehicles oil recovery GS panels recoverable launch vehicles rectangular panels pressure recovery booster recovery planforms reclamation launch vehicle configurations . rectangular planforms recoverability multiengine vehicles recoverable launch vehicles . rectangular panels ∞ recovery strakes recovery parachutes recovery parachutes structural members retrieval reusable launch vehicles wing panels ∞ vehicles reuse spacecraft recovery ∞ winged vehicles rectangular planforms X-33 reusable launch vehicle stress relaxation GS planforms X-34 reusable launch vehicle stress relieving . rectangular planforms visual discrimination . . rectangular panels recoverable satellites . . rectangular plates USE recoverable spacecraft recovery parachutes . . rectangular wings GS parachutes RT rectangles recoverable spacecraft recovery parachutes wing planforms recoverable satellites booster recovery GS reentry vehicles Discoverer recovery capsules rectangular plates . recoverable spacecraft recoverable launch vehicles GS planforms . . Apollo spacecraft ∞ recovery . rectangular planforms . Apollo lunar experiment module ribbon parachutes . rectangular plates Astro vehicle spacecraft recovery structural members Gemini B spacecraft . plates (structural members) . . Gemini spacecraft recovery vehicles . rectangular plates Gemini 2 spacecraft (EXCLUDES RECOVERABLE VEHICLES) flat plates Gemini (GT-1) spacecraft recovery vehicles metal plates Mercury spacecraft Assured Crew Return Vehicle ∞ plates . . . Aurora 7 X-38 crew return vehicle ... Faith 7 helicopters rectangular waveguides ... Friendship 7 ∞ military vehicles GS waveguides . SIGMA 7 rectangular waveguides trucks . . reusable spacecraft ∞ vehicles beam waveguides . aerospace planes microwave filters HOPE aerospace plane HOTOL launch vehicle recovery zones rectangular wind tunnels VentureStar launch vehicle RT downrange test facilities landing sites X-30 vehicle . wind tunnels . . . . X-37 vehicle reentry range . rectangular wind tunnels X-40A vehicle regions RT subsonic wind tunnels ... MARS (Manned Reusable spacecraft recovery Spacecraft) rectangular wings . . . single stage to orbit vehicles . . . Delta Clipper . . . HOTOL launch vehicle recreation straight wings morale GS airfoils . wings parks . space shuttles . . unswept wings relaxation (physiology) . . . . Buran space shuttle rectangular wings rest Hermes manned spaceplane Starsite program planforms Space Shuttle orbiters . rectangular planforms tourism . Atlantis (orbiter)
. Challenger (Orbiter) urban planning .. rectangular wings urban research Columbia (Orbiter) Discovery (Orbiter) DEF Devices that convert microwave enrecrystallization Endeavour (orbiter) ergy into direct-current power by utilizing a num-DEF In metals, the change from one crystal Enterprise (Orbiter) ber of small diodes each with its own diode structure to another, as occurs on heating or . . voskhod manned spacecraft rectifier. Used for rectifier antennas. cooling through a critical temperature. The for-Voskhod 1 spacecraft rectifier antennas mation of a new strain free grain structure from Voskhod 2 spacecraft antennas that existing in cold worked metal, usually ac-Vostok spacecraft . radio antennas complished by heating. Vostok 1 spacecraft . . microwave antennas GS crystallization Vostok 2 spacecraft . . rectennas recrystallization . . . Vostok 3 spacecraft microwave equipment annealing Vostok 4 spacecraft . microwave antennas heat treatment ... Vostok 5 spacecraft . rectennas laser annealing radio equipment . radio antennas . . Vostok 6 spacecraft metallurgy booster rocket engines nucleation boostglide vehicles . . microwave antennas polygonization expendable stages (spacecraft) . . rectennas ∞ separation hypersonic vehicles satellite power transmission Inertial Upper Stage solar radiation interim stages (spacecraft) rectangles spacetennas lifting reentry vehicles GS geometry

. Euclidean geometry

. . polygons

... tetragons

. . . . rectangles

maneuverable spacecraft

manned spacecraft

military spacecraft

rendezvous spacecraft

rectification

GS

rectification

RT ∞ condensation

geometric rectification (imagery)

distillation than an absolute magnitude of plus 1, and are energy storage purification the faintest and coolest of the dwarfs. reduced gravity refining GS celestial bodies . stars USE microgravity rectifier antennas . . main sequence stars . . . dwarf stars reduced instruction set computing USE rectennas USE RISC processors ... red dwarf stars rectifiers hot stars reduced order filters (EXCLUDES PHOTOGRAPHIC SN late stars RECTIFIER)
Static devices having an asymmetrical GS linear filters massive compact halo objects . reduced order filters stellar luminosity conduction characteristic which is used to conelectric filters stellar magnitude vert attending current into direct current. ∞ filters subdwarf stars GS rectifiers Kalman filters supernova remnants . avalanche diodes navigation aids white dwarf stars . . cryosar . crystal rectifiers  $\infty \ \ reduction$ . germanium diodes . ignitrons red giant stars (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Stars whose evolution has progressed DFF to the point where hydrogen core burning has been completed, the helium core has become . thyratrons decrementing . thyristors diminution denser and hotter than originally, and the enve-. silicon controlled rectifiers shortening lope has expanded to perhaps 100 times its RT Barritt diodes attenuation initial size. current converters (AC to DC) cleaning GS celestial bodies diodes comminution . stars electron tubes contraction . . giant stars ∞ energy sources damping ... red giant stars form factors data reduction . . . carbon stars ITO (semiconductors) deceleration asymptotic giant branch stars mercury arcs decontamination late stars metal oxide semiconductors demagnetization M stars ∞ power supplies deoxygenation depletion Mira variables power supply circuits S stars semiconductor devices depolarization stellar evolution solid state devices dilution stellar luminosity thin films dimming dispersing Red Sea rectum dissipation GS seas GS anatomy drag reduction Red Sea . digestive system elimination RT Africa . . gastrointestinal system friction reduction . . . intestines Asia hydrogenolysis . . . . rectum inhibition iodimetry recuperators In astronomy, the displacement of obleakage served spectral lines toward the longer wave-USE regenerators metal working lengths of the red end of the spectrum. noise reduction recursion formulas RT blue shift USE recursive functions optimization cosmology pressure reduction Doppler effect prevention recursive filters Doppler-Fizeau effect (added December 2002) purification galaxies USE IIR filters reduction (chemistry) Hubble constant refining Hubble diagram recursive functions relaxation (mechanics) irregular galaxies recursion formulas removal radial velocity GS functions (mathematics) retarding recursive functions shrinkage red sprites FIR filters sidelobe reduction (added January 2000) IIR filters spin reduction sprites (atmospheric physics) LISP (programming language) stopping strange attractors tapering red tide RT fishes recycling reduction (chemistry) marine environments GS chemical reactions ŔΤ economy microorganisms . reduction (chemistry) extraction oceanography materials recovery . . deoxidizing plankton nuclear fuel reprocessing . hydrogenation sea water RT ∞ chemistry ∞ processing toxicology dehydrogenation reclamation electrodeposition refining Redeye missile electrolysis resources GS missiles metal powder solvolysis . antiaircraft missiles oxidation spent fuels . . Redeye missile oxidation-reduction reactions waste management surface to air missiles purification Redeye missile ∞ reduction red arcs RT solid propellant rocket engines atmospheric radiation roasting GS smelting . auroras Redox cells . . auroral arcs trichloroethylene DEF Cells for converting the energy of re-. . red arcs actants to electrical energy; an intermediate reductant in the form of liquid electrolyte reacts reduction (mathematics) RT ∞ arcs optimization USE auroral ionization at the anode in a conventional manner and is regenerated by reaction with a primary fuel. red blood cells redundancy electrochemical cells DEF The existence of more than one means USE erythrocytes GS . electric batteries of accomplishing a given task, where all means . Redox cells red dwarf stars must fail before there is an overall failure of the

electrochemistry

energy conversion efficiency

electrolytes

system.

RT

assurance

communication theory

DEF Red stars of low luminosity, so desig-

nated by E. Hertzsprung. Red Dwarf stars are

commonly those main sequence stars fainter

| computer program inte            | earity                   | aerodynamics   | ∞         | insulated structures                          |
|----------------------------------|--------------------------|--|-----------|---|
| correction                       | 5gmy                     | aerothermodynamics   |           | Ludox (trademark)                             |
| error detection codes            |                          | descent  |           | nose cones                                    |
| information theory               |                          | descent trajectories   |           | reusable heat shielding                       |
| ,                                |                          | entry  |           | <u> </u>                                      |
| reliability                      |                          | flight paths   |           | spacecraft shielding thermal control coatings |
| edundancy encoding               |                          | impact prediction  |           | thermal insulation                            |
| GS coding                        |                          |  |           |   |
|                                  | na                       | lifting reentry vehicles   |           | thermal protection                            |
| . redundancy encodi              | ng                       | low observable reentry vehicles  |           |   |
| RT concatenated codes            |                          | missiles   | reentry 1 | trajectories                                  |
| data transmission                |                          | ∘ rockets  | DEF       | Those parts of rocket trajectories that       |
| error correcting codes           |                          | space flight   |           | reentry and end at target or at the           |
| error correcting device          | es                       | terminal guidance  | surface.  | rooms, and one at target or at the            |
| error detection codes            |                          | · ·  |           | trajectories                                  |
| Reed-Solomon codes               | reentry                  | bodies   |           |   |
| repetition                       | -                        | reentry vehicles   |           | . descent trajectories                        |
| signal encoding                  | 002                      |  |           | reentry trajectories                          |
| Signal chooding                  | reentry                  | breakup  |           | circumlunar trajectories                      |
| edundant components              |                          | spacecraft breakup   |           | flight mechanics                              |
|                                  | USL                      | Spaceciait bleakup   |           | hyperbolic reentry                            |
|                                  | reentm.                  | indication   |           | missile trajectories                          |
| RT backups                       | -                        | communication  |           | moon-Earth trajectories                       |
| ∞ components                     | GS                       | telecommunication  |           | spacecraft trajectories                       |
| reliability                      |                          | . space communication  |           | terminal guidance                             |
| spare parts                      |                          | spacecraft communication   |           | terminal guidance                             |
| ∞ structures                     |                          | reentry communication  |           |   |
|                                  | RT                       | blackout (propagation)   | reentry   | vehicles                                      |
| redundant structures             |                          | manned reentry   | DEF       | Any payload carrying vehicles de-             |
| USE redundant componer           | nts                      | plasma sheaths   | signed to | o leave the sensible atmosphere and           |
| OOL TOURINGAIN COMPONE           | 1113                     | radio communication  |           | irn through it to Earth. Used for reentry     |
| reede (plante)                   |                          |  | bodies.   | an anough a to Latan cood for roomay          |
| eeds (plants)                    |                          | voice communication  |           | roontry hadias                                |
| GS plants (botany)               |                          |  |           | reentry bodies                                |
| . grasses                        |                          | decoys   |           | reentry vehicles                              |
| reeds (plants)                   | GS                       | countermeasures  |           | . boostglide vehicles                         |
|                                  |                          | . reentry decoys   |           | X-20 aircraft                                 |
| Reed-Solomon codes               |                          | decoys   |           | . low observable reentry vehicles             |
| (added June 1992)                |                          | . reentry decoys   |           | maneuverable reentry bodies                   |
| UF RS codes                      |                          | reentry vehicles   |           | lifting reentry vehicles                      |
| GS error correcting codes        |                          |  |           | FDL-5 reentry vehicle                         |
|                                  |                          | . reentry decoys   |           | HL-10 reentry vehicle                         |
| . Reed-Solomon cod               | es KI                    | ballistic missile decoys   |           |   |
| RT bit error rate                |                          | missile defense  |           | HLD-35 reentry vehicle                        |
| ∞ codes                          |                          |  |           | Janus spacecraft                              |
| coding                           | reentry                  | effects  |           | M-2 lifting body                              |
| concatenated codes               | RT                       | ablation   |           | M-2F2 lifting body                            |
| decoders                         |                          | aerodynamic heating  |           | X-20 aircraft                                 |
| redundancy encoding              |                          | blackout (propagation)   |           | X-24 aircraft                                 |
| signal encoding                  |                          | ∘ effects  |           | . Mark 1 reentry body                         |
| signal encoung                   | `                        |  |           | . Mark 2 reentry body                         |
| en e fa                          |                          | hypersonic reentry   |           |   |
| eefs                             |                          | plasma sheaths   |           | . Mark 3 reentry body                         |
| DEF Chains of rocks, sand        |                          | spacecraft breakup   |           | . Mark 4 reentry body                         |
| at or near the surface of water. |                          | temperature effects  |           | . Mark 5 reentry body                         |
| GS landforms                     |                          |  |           | . Mark 6 reentry body                         |
| . barriers (landforms)           | reentry                  | gliders  |           | . Mark 11 reentry body                        |
| reefs                            |                          | lifting reentry vehicles   |           | . Mark 12 reentry body                        |
| RT atolls                        |                          |  |           | . Mark 17 reentry body                        |
| bars (landforms)                 | reentry                  | guidance   |           | . recoverable spacecraft                      |
| ,                                |                          | quidance (motion)  |           |   |
| coral reefs                      | GS                       | • ,  |           | Apollo spacecraft                             |
| island arcs                      | 5.7                      | reentry guidance   |           | Apollo lunar experiment module                |
| islands                          | RT                       | automatic control  |           | Astro vehicle                                 |
| oceanography                     |                          | descent trajectories   |           | Gemini B spacecraft                           |
| rocks                            |                          | inertial guidance  |           | Gemini spacecraft                             |
| sands                            |                          | manual control   |           | Gemini 2 spacecraft                           |
| shallow water                    |                          | satellite guidance   |           | Gemini (GT-1) spacecraft                      |
| ∞ shelves                        |                          | spacecraft quidance  |           | . Mercury spacecraft                          |
| shoals                           |                          | terminal guidance  |           | Aurora 7                                      |
| Siloais                          |                          | terminar guidance  |           |   |
|                                  |                          | and the second s |           | Faith 7                                       |
| eels                             |                          | physics  |           | Friendship 7                                  |
| RT cables (ropes)                | RT                       | ablation   |           | SIGMA 7                                       |
| ∞ containers                     |                          | aerothermochemistry  |           | reusable spacecraft                           |
| magnetic tapes                   |                          | aerothermodynamics   |           | aerospace planes                              |
| spools                           |                          | hypersonic reentry   |           | HOPE aerospace plane                          |
| tethered balloons                |                          | low observable reentry vehicles  |           | HOTOL launch vehicle                          |
| tethered satellites              |                          | o physics  |           | VentureStar launch vehicle                    |
|                                  |                          |  |           |   |
| tethering                        |                          | plasma sheaths   |           | X-30 vehicle                                  |
|                                  | c                        | ∘ science  |           | X-37 vehicle                                  |
| eentry                           |                          |  |           | X-40A vehicle                                 |
| DEF The event occurring w        | hen a spacecraft reentry | range  |           | MARS (Manned Reusable                         |
| or other object comes back in    |                          | distance   |           | Spacecraft)                                   |
| atmosphere after going to high   |                          | . reentry range  |           | single stage to orbit vehicles                |
| action involved in this event.   | RT                       |  |           | Delta Clipper                                 |
| GS atmospheric entry             | KI                       | 6  |           | HOTOL launch vehicle                          |
|                                  |                          | recovery zones   |           |   |
| . reentry                        |                          | ahialdina  |           | space shuttles                                |
| hyperbolic reentry               |                          | shielding  |           | Buran space shuttle                           |
| hypersonic reentry               | GS                       | shielding  |           | Hermes manned spaceplane                      |
| uncontrolled reent               | ry (spacecraft)          | . heat shielding   |           | Space Shuttle orbiters                        |
| manned reentry                   | *                        | reentry shielding  |           | Atlantis (orbiter)                            |
| spacecraft reentry               | RT                       | ablation   |           | Challenger (Orbiter)                          |
| uncontrolled reent               |                          | ablative nose cones  |           | Columbia (Orbiter)                            |
|                                  | ay (opaccorait)          |  |           | Discovery (Orbiter)                           |
|                                  |                          | aerodynamic heating  |           |   |
| aerodynamic heating              |                          | aerothermochemistry  |           | Endeavour (orbiter)                           |
| aerodynamic stability            |                          | heat sinks   |           | Enterprise (Orbiter)                          |

| voskhod manned spacecraft          | alagaing   | wave reflection                                     |
|------------------------------------|--|---|
| Voskhod 1 spacecraft               | cleaning<br>∞ conversion   | wave reflection                                     |
|                                    |  | reflecting telescopes                               |
| Voskhod 2 spacecraft               | crystallization  |   |
| Vostok spacecraft                  | desulfurizing  | DEF Telescopes which collect light by               |
| Vostok 1 spacecraft                | dewaxing   | means of concave mirrors.                           |
| Vostok 2 spacecraft                | distillation   | GS telescopes                                       |
| Vostok 3 spacecraft                | drop transfer  | . reflecting telescopes                             |
| Vostok 4 spacecraft                | energy policy  | Large Deployable Reflector                          |
| Vostok 5 spacecraft                | enrichment   | . Starsat telescope                                 |
| Vostok 6 spacecraft                | extraction   | RT Cassegrain optics                                |
| . reentry decoys                   | fractionation  | honeycomb mirrors                                   |
| . Trailblazer 1 reentry vehicle    | hydrogenation  | mirrors   |
|                                    |  | optical equipment                                   |
| . Trailblazer 2 reentry vehicle    | hydrometallurgy  |   |
| . X-17 reentry vehicle             | isomerization  | optical measuring instruments                       |
| RT ablative nose cones             | materials recovery   | paraboloid mirrors                                  |
| aeroshells                         | polymerization   | reflectors  |
| aerothermochemistry                | ∞ processing   | Schmidt telescopes                                  |
| Athena rocket vehicle              | purification   | segmented mirrors                                   |
| ∞ ballistic vehicles               | pyrometallurgy   | spectroscopic telescopes                            |
| bluff bodies                       | rectification  | stratoscope telescopes                              |
| ∞ bodies                           | recycling  |   |
| ferry spacecraft                   | ∞ reduction  | reflection  |
| ∞ flight vehicles                  | ∞ separation   | DEF The process whereby a surface of dis-           |
| hypersonic vehicles                | smelting   | continuity turns back a portion of the incident     |
| ∞ insulated structures             | sublimation  | radiation into the medium through which the         |
|                                    |  | radiation approached.                               |
| landing modules                    | upgrading  | ··  |
| lifting bodies                     | zone melting   |   |
| maneuverable spacecraft            |  | . infrared reflection                               |
| missiles                           | reflectance  | . optical reflection                                |
| nose cones                         | DEF The ratio of the radiant flux reflected by                                   | . retroreflection                                   |
| pyramidal bodies                   | a body to that incident upon it. Used for reflec-                                | . signal reflection                                 |
| ∞ rockets                          | tion coefficient and reflectivity.   | . specular reflection                               |
| space capsules                     | UF reflection coefficient  | . spread reflection                                 |
| ∞ spacecraft                       |  | . ultraviolet reflection                            |
| spacecraft configurations          | reflectivity   | . wave reflection                                   |
|                                    | GS electromagnetic properties  | Mach reflection                                     |
| terminal guidance                  | . optical properties   |   |
| test vehicles                      | reflectance  |   |
| ∞ vehicles                         | bidirectional reflectance  | Brewster angle                                      |
| ∞ winged vehicles                  | spectral reflectance   | deflection  |
|                                    | RT absorptance   | diffusion   |
| reference atmospheres              | albedo   | echelette gratings                                  |
| UF standard atmospheres            | attenuation coefficients   | echelle gratings                                    |
| GS models                          | birefringence  | electromagnetic absorption                          |
| . atmospheric models               | bistatic reflectivity  | electromagnetic radiation                           |
| reference atmospheres              |  | impingement   |
| standards                          | brightness   | Lambert surface                                     |
| . reference atmospheres            | coarseness   | light (visible radiation)                           |
| . reference aunospheres            | cosmic ray albedo  | ,   |
| reference stars                    | Earth albedo   | ∞ optics  |
|                                    | flow coefficients  | reflectance   |
| GS celestial bodies                | geometrical theory of diffraction  | refraction  |
| . stars                            | luster   | scattering  |
| reference stars                    | MISR (radiometry)  | transmission  |
| RT astronomical coordinates        | optical measurement  | zero sound  |
| astronomical photography           | optical reflection   |   |
| celestial navigation               | photometry   | reflection coefficient                              |
| laser guide stars                  |  | USE reflectance                                     |
| navigation aids                    | ray tracing  |   |
| space navigation                   | reflection   | reflection nebulae                                  |
| opado navigation                   | reflectometers   | DEF Any celestial body having a hazy                |
| ∞ reference systems                | surface properties   | cloudy appearance whose brightness results          |
| SN (USE OF A MORE SPECIFIC TERM IS | surface roughness effects  |   |
| RECOMMENDEDCONSULT THE TERMS       | thermochromic coatings   | from the scattering by dust particles of light from |
| LISTED BELOW)                      | transmittance  | nearby stars.                                       |
| RT bibliographies                  | vegetative index   | GS celestial bodies                                 |
| celestial reference systems        | · ·  | . nebulae   |
| coordinates                        | reflected radiation  | reflection nebulae                                  |
| documentation                      | USE reflected waves  | RT cosmic dust                                      |
| indexes (documentation)            | JOL Tellected waves  | interstellar matter                                 |
| inertial reference systems         |  | light scattering                                    |
| libraries                          | reflected rays   | 3   |
|                                    | USE reflected waves  | reflectivity  |
| spherical coordinates              |  | USE reflectance                                     |
| ∞ systems                          | reflected waves  | COL TONIOGIANIO                                     |
| Wiswesser notations                |  | reflectometers                                      |
|                                    | DEF Shock waves, expansion waves, or compression waves reflected by another wave |   |
| references (standards)             |  | •   |
| USE <b>standards</b>               | incident upon a wall or other boundary. In elec-                                 | GS measuring instruments                            |
|                                    | tronics, radio waves reflected from a surface or                                 | . optical measuring instruments                     |
| refilling                          | object. Used for reflected radiation and reflected                               | reflectometers                                      |
| GS filling                         | rays.  | microwave reflectometers                            |
| . refilling                        | UF reflected radiation   | optical equipment                                   |
| RT ∞ loading                       | reflected rays   | . optical measuring instruments                     |
| replenishment                      | RT corpuscular radiation   | reflectometers                                      |
| теріспізіннені                     | elastic waves  | microwave reflectometers                            |
| refining                           |  |   |
| refining                           | electromagnetic radiation  |   |
| GS refining                        | evanescent waves   | directors (antenna elements)                        |
| . electrorefining                  | incident radiation   | optical measurement                                 |
| . electroslag refining             | optical reflection   | photometers   |
| RT alkylation                      | photon beams   | reactor cores                                       |
| beneficiation                      | ∞ radiation  | reflectance   |
| chemical fractionation             | refracted waves  | reflector antennas                                  |
| clean fuels                        | retroreflection  | Schelkunoff principle                               |
| ordan radio                        | TOTTOTTOTTOTTOTT   | Contantant principle                                |

two reflector antennas ultraviolet reflection

#### reflector antennas

DEF Antennas consisting of one or more reflecting surfaces and a radiating (receiving) feed system.

antennas

. directional antennas

#### . . reflector antennas

. . . parabolic antennas

. . two reflector antennas

antenna feeds

antenna radiation patterns

Cassegrain antennas microwave antennas

multibeam antennas

parabolic reflectors

radar antennas

radar corner reflectors radar reflectors

radio antennas

reflectometers

reflectors

subreflectors

reflector satellites

USE passive satellites

#### reflectors

#### GS reflectors

- . Fresnel reflectors
- . parabolic reflectors
- . . paraboloid mirrors
- . radar reflectors
- . . radar corner reflectors
- . retroreflectors
- . solar reflectors
- . . solar collectors
- . solettas
- . Bragg reflectors
- wiggler magnets

antennas

attenuators baffles

ceilings (architecture)

deflectors

directors (antenna elements)

etalons heliostats

Large Deployable Reflector

parasitic elements (antennas)

plasma core reactors

radiation shielding

reactor cores

reflecting telescopes

reflector antennas Schelkunoff principle

subreflectors

telescopes

two reflector antennas

### reflexes

#### GS reflexes

- . conditioned reflexes
- . respiratory reflexes . . cough
- . . Hering-Brever reflex
- . sneezing
- . baroreflexes
- . vestibular nystagmus . carotid sinus reflex

deconditioning

reaction time vasoconstriction vasodilation

#### reforestation

DEF The reestablishment of a tree crop on forest land.

management

- . resources management
- . . forest management
- . . reforestation

RT forests

timber inventory

refracted radiation

USE refracted waves

refracted rays

USE refracted waves

### refracted waves

Waves that have had their direction of motion changed by refraction. Used for refracted radiation and refracted rays.

refracted radiation refracted rays

corpuscular radiation eikonal equation

elastic waves

electromagnetic radiation

incident radiation photon beams reflected waves

refraction ∞ waves

#### refracting telescopes

Telescopes which collect light by means of a lens or system of lenses.

telescopes

refracting telescopes

lenses

optical equipment

optical measuring instruments spectroscopic telescopes

stratoscope telescopes

#### refraction

The process in which the direction of energy propagation is changed as the result of a change within the propagating medium, or as the energy passes through the interface representing a density discontinuity between the two media. In the first instance, the rays undergo a smooth bending over a finite distance. In the second case, the index of refraction changes through an interfacial layer that is thin compared to the wavelength of the radiation; thus, the refraction is abrupt, essentially discontinuous.

#### refraction

- . atmospheric refraction
- . radio wave refraction
- birefringence
  . Kerr electrooptical effect

asphericity

astigmatism

∞ conduction

deflection diffraction

distortion

divergence

Huygens principle

isochromatics

lenses

light (visible radiation)

photoelasticity prisms

reflection refracted waves

refractivity

sinking

Snells law transmission

Voigt effect

wave dispersion

wave propagation

# refractivity

refractive index

USE refractivity

refractive index

electromagnetic properties

. optical properties refractivity

. . photorefractivity

atmospheric refraction birefringence

birefringent coatings birefringent filters Brewster angle

gradient index optics

isotropism

light (visible radiation)

opacity

optical thickness polarization (waves)

ratios refraction refractometers

Snells law underwater optics

#### refractometers

DEF Instruments for measuring the index of

refraction of a liquid, gas, or solid. GS measuring instruments

. optical measuring instruments

. refractometers

optical equipment

. optical measuring instruments

. . refractometers

goniometers

optical measurement

refractivity

#### refractories

refractory materials GS

. refractories RT ceramics

cermets combustion chambers

forsterite furnaces

hearths mortars (material)

refractory coatings rocket engines

rocket linings thermal insulation

turbines

refractory coatings
DEF Pyrolytic materials used for coating other materials exposed to high temperatures.

coatings

. protective coatings . refractory coatings

ceramics

pyrolytic materials refractories thermal insulation

# refractory materials

high melting compounds high temperature materials

pyrographalloy

refractory materials
. Ludox (trademark)

. porcelain

. refractories

. refractory metal alloys . . molybdenum alloys

Rene 41

Rene 63

Rene 77

Rene 95 . . niobium alloys

. . osmium alloys

. . rhenium alloys

. . tantalum alloys

. . tungsten alloys . refractory metals

. . chromium ... chromium isotopes

. . iridium

... iridium isotopes

. . molybdenum . . niobium

... niobium isotopes . niobium 95

. . osmium

... osmium isotopes . . rhenium

. . tantalum

. rhenium isotopes . . . tantalum isotopes

. . tungsten

. . tungsten isotopes ablative materials carbides

Carborundum (trademark)

|  | e i   |  |
|--|---|--|
| ceramics   | time lag  | synchronous satellites   |
| cermets  | Defracil (trademark)  | refueling  |
| ∞ chemical compounds                               | Refrasil (trademark)<br>USE <b>fibers</b>   | UF fueling   |
| clays  | silicon dioxide   | GS refueling   |
| high temperature research<br>∞ inorganic materials | Silicon dioxide   | . air to air refueling   |
| ∞ materials  | refrigerants  | RT aircraft hazards  |
| ∞ metal compounds                                  | RT absorbers (materials)  | flight operations  |
| nonflammable materials                             | absorption cooling  | fuel consumption   |
| nozzle walls                                       | air conditioning  | fuel contamination   |
| pyrolytic materials                                | ammonia   | fuel control   |
| Scotchlite (trademark)                             | brines  | fuel systems   |
| sialon   | coolants  | ground support equipment   |
|  | cooling systems   | preflight operations   |
| mafine atoms months allows                         | fluorohydrocarbons  | propellant transfer  |
| refractory metal alloys GS alloys                  | freon   | replenishment  |
| GS alloys . heat resistant alloys                  | ice   | retractable equipment  |
| refractory metal alloys                            | refrigerating   |  |
| molybdenum alloys                                  | refrigerating machinery   | ∞ regeneration   |
| Rene 41  | refrigerators   | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS |
| Rene 63  | solid nitrogen  | LISTED BELOW)  |
| Rene 77  | refrigereting   | RT regeneration (engineering)                                      |
| Rene 95  | refrigerating   | regeneration (physiology)  |
| niobium alloys                                     | RT air conditioning<br>air cooling  |  |
| osmium alloys                                      | cold traps  | regeneration (engineering)   |
| rhenium alloys                                     | condensing  | UF regenerative cycles   |
| tantalum alloys                                    | coolers   | RT ∞ generation  |
| tungsten alloys                                    | cooling   | positive feedback  |
| refractory materials                               | cooling systems   | reclamation  |
| refractory metal alloys                            | cryogenic cooling   | ∞ regeneration   |
| molybdenum alloys                                  | cryogenic equipment   | regeneration (physiology)  |
| Rene 41  | cryogenics  | UF bioregeneration   |
| Rene 63  | defrosting  | RT physiology  |
| Rene 77  | dehumidification  | ∞ regeneration   |
| Rene 95  | freezing  | rogonoradon  |
| niobium alloys                                     | freon   | regenerative cooling   |
| osmium alloys                                      | frozen foods  | DEF The cooling of a part of an engine b                           |
| rhenium alloys                                     | humidity  | the fuel or propellant being delivered to the                      |
| tantalum alloys                                    | low temperature   | combustion chamber; specifically, the cooling of                   |
| tungsten alloys                                    | magnetic cooling  | a rocket engine combustion chamber or nozzle                       |
|  | preserving  | by circulating the fuel or oxidizer, or both, around               |
| refractory metals                                  | refrigerants  | the part to be cooled.   |
| DEF Usually alloys of high-melting point,          | refrigerators   | GS cooling   |
| hard-to-work metals, but can also refer to certain | temperature control   | regenerative cooling   |
| unalloyed elements.                                | temperature control<br>temperature distribution   | RT heat exchangers   |
| GS metals  | thermoacoustic refrigerators  | precooling   |
| refractory metals                                  | thermoelectric cooling  | regenerators   |
| chromium   | ventilation   | regenerative cycles  |
| chromium isotopes<br>iridium                       | · ontailean   | USE regeneration (engineering)                                     |
| iridium isotopes                                   | refrigerating machinery   | OOL regeneration (engineering)                                     |
| molybdenum   | GS refrigerating machinery  | regenerative feedback  |
| niobium  | . refrigerators   | USE positive feedback  |
| niobium isotopes                                   | thermoacoustic refrigerators  | ·  |
| niobium 95   | RT absorbers (equipment)  | regenerative fuel cells  |
| osmium   | air conditioning  | GS electric generators   |
| osmium isotopes                                    | air conditioning equipment  | . direct power generators  |
| rhenium  | blowers   | fuel cells   |
| rhenium isotopes                                   | compressors   | regenerative fuel cells  |
| tantalum   | condensers (liquefiers)   | electrochemical cells  |
| tantalum isotopes                                  | coolers   | . fuel cells   |
| tungsten   | cooling systems<br>cryogenic equipment  | regenerative fuel cells  |
| tungsten isotopes                                  | evaporators   | RT biochemical fuel cells phosphoric acid fuel cells               |
| refractory materials                               | heat pumps  | storage batteries  |
| refractory metals                                  | ∞ machinery   | Storage batteries  |
| chromium   | refrigerants  | regenerators   |
| chromium isotopes                                  | temperature control   | DEF Devices used in a thermodynamic pro                            |
| iridium  | thermoelectric cooling  | cess for capturing and returning to the proces                     |
| iridium isotopes<br>molybdenum                     | <b>3</b>  | heat that would otherwise be lost. Used for                        |
| niobium  | refrigerators   | recuperators.  |
| niobium isotopes                                   | GS refrigerating machinery  | UF recuperators  |
| niobium 95   | . refrigerators   | GS regenerators  |
| osmium   | thermoacoustic refrigerators  | . thermosiphons  |
| osmium isotopes                                    | RT coolers  | RT energy storage  |
| rhenium  | defrosting  | heat exchangers  |
| rhenium isotopes                                   | refrigerants  | heat sinks   |
| tantalum   | refrigerating   | regenerative cooling   |
| tantalum isotopes                                  | Pofest  | tube heat exchangers   |
| tungsten   | Refsat  DEF A proposed satellite that broadcast   | S Pagga pales  |
| tungsten isotopes                                  |   |  |
| RT heat resistant alloys                           | navigation aiding signals to low cost user term<br>nals which employ the constellation of 2 |  |
| transition metals                                  | NavStar Global Positioning System (GPS) sa  |  |
|  | ellites for position determination.   | pomerons   |
| refractory period                                  | GS artificial satellites  | scattering cross sections  |
| RT reaction time                                   | . navigation satellites   | Coattoring Gross Sections  |
| ∞ relaxation                                       | Refsat  | regimes  |
| responses  | RT NAVSTAR satellites   | RT communities   |
| •  |   |  |

regimes RT communities

|         | culture (social sciences)                         |          | sites  |            | regression coefficients                                       |
|---------|---|----------|--|------------|---|
|         | environments                                      |          | 511.05                                       | RT         | correlation   |
|         | governments                                       | ∞ regist | ers  | KI         | forecasting   |
|         | nations   | SN       |  |            | mathematical models   |
|         | politics  | 0.1      | RECOMMENDEDCONSULT THE TERMS                 |            | quality control   |
|         | politics  | DT       | LISTED BELOW)                                |            | quality control   |
|         |   | RT       | ,  | regular    | itv   |
| -       | planning  |          | registers (computers)                        | RT         | continuity (mathematics)                                      |
| GS      | planning  | rogiet   | ers (air circulation)                        |            | convergence   |
|         | . regional planning                               |          | ,  |            | irregularities  |
|         | urban planning                                    | RT       |  |            | o normalizing   |
|         | conservation                                      |          | ∞ registers                                  |            | o patterns  |
|         | farmlands   | renist   | ers (computers)                              |            | periodic variations   |
|         | forest management                                 |          | Devices capable of retaining informa-        |            | physiology  |
|         | forests   |          | ften that contained in a small subset (e.g., | ۰          | o properties  |
|         | harbors   |          | ord) of the aggregate information in a       |            | trend analysis  |
|         | highways  |          | computer.                                    |            | •   |
|         | industrial areas                                  | GS       |  | regulation | on  |
|         | lakes   |          | . computer storage devices                   | USE        | control   |
|         | land management                                   |          | . registers (computers)                      |            |   |
|         | megalopolises                                     |          | accumulators (computers)                     | regulati   |   |
|         | parks   | RT       |  | RT         | air law   |
|         | residential areas                                 |          | ∞ recorders                                  |            | allowances  |
|         | rural areas                                       |          | ∞ registers                                  | ۰          | ∘ control   |
|         | rural land use                                    |          | shift registers                              |            | copyrights  |
|         | St Louis-Kansas City Corridor (MO) suburban areas |          |  |            | crime   |
|         |   | regoli   | th   |            | law (jurisprudence)   |
|         | urban development                                 | DEF      | The layer rock or blanket or unconsoli-      |            | liabilities   |
|         | urban transportation                              | dated    | rocky debris of any thickness that overlies  |            | licensing   |
|         |   | bedroo   | ck and forms the surface of the land.        |            | patent policy   |
| regions |   | GS       | rocks  |            | penalties   |
| UF      | zones   |          | . regolith                                   |            | police  |
| GS      | regions   | RT       | basalt                                       |            | policies  |
|         | . auroral zones                                   |          | bedrock                                      |            | procurement policy  |
|         | . Brillouin zones                                 |          | breccia                                      |            | prohibition   |
|         | . Central America                                 |          | carbonaceous rocks                           |            | rules   |
|         | . Central Atlantic Region (US)                    |          | coal   |            |   |
|         | . Central Europe                                  |          | core-mantle boundary                         | regulate   |   |
|         | . D region  |          | Earth mantle                                 | SN         | (LIMITED TO DEVICES)  |
|         | . E_region  |          | Earth resources                              | GS         | control equipment   |
|         | E-1 layer   |          | enstatite                                    |            | . regulators  |
|         | E-2 layer   |          | geology                                      |            | automatic control valves                                      |
|         | sporadic E layer                                  |          | igneous rocks                                |            | pressure regulators   |
|         | . equatorial regions                              |          | lava   |            | relief valves   |
|         | . F region  |          | lithology                                    |            | cryostats   |
|         | F 1 region  |          | lunar geology                                |            | current regulators  |
|         | F 2 region  |          | lunar mantle                                 |            | flow regulators   |
|         | . Fresnel region                                  |          | lunar rocks                                  |            | fuel flow regulators oxygen regulators                        |
|         | . Great Basin (US)                                |          | magma  |            | speed regulators  |
|         | . Great Plains Corridor (North                    |          | olivine                                      |            | thermostats   |
|         | America)  |          | peridotite                                   |            | voltage regulators  |
|         | . Gutenberg zone                                  |          | pyroxenes                                    | RT         | actuators   |
|         | . habitats  |          | rock intrusions                              | IXI        | automatic control   |
|         | . lumbar region                                   |          | selenology                                   | ~          | o control   |
|         | . M region  |          | stratigraphy                                 | ~          | controllers   |
|         | . Middle East                                     |          |  |            | gibberellins  |
|         | . New England (US)                                |          | sion (statistics)                            |            | speed control   |
|         | . null zones                                      | USE      | regression analysis                          |            | opood control   |
|         | . Pacific Northwest (US)                          |          | -1   | regulate   | ory mechanisms (biology)                                      |
|         | . Panama Canal Zone                               |          | ssion analysis                               | SN         | (RESTRICTED TO THE REGULATION OF                              |
|         | . pelagic zone                                    |          | The statistical counterpart or analog of     |            | PHYSIOLOGICAL AND PHYSIOCHEMICAL                              |
|         | . polar regions Antarctic regions                 |          | actional expression, in ordinary mathemat-   |            | PROCESSESEXCLUDES ECOLOGICAL,<br>GENETIC, OR BIOTECHNOLOGICAL |
|         | McMurdo sound                                     | UF       | one variable in terms of others.             |            | REGULATION)   |
|         | Ross ice shelf                                    | GS       | 9 ( )  | DEF        | Specific processes by which living or-                        |
|         | Arctic regions                                    | GS       | statistical analysis . variance (statistics) |            | s control the rates of biochemical and                        |
|         | subarctic regions                                 |          | multivariate statistical analysis            |            | ogical reactions involved in processes                        |
|         | . remote regions                                  |          | regression analysis                          | such as    | metabolism and cellular differentiation.                      |
|         | Antarctic regions                                 |          | regression coefficients                      | RT         | biocontrol systems  |
|         | McMurdo sound                                     | RT       | 3  |            | calmodulin  |
|         | Ross ice shelf                                    | IXI      | autoregressive moving average                | 0          | o control   |
|         | . Arctic regions                                  |          | clumps                                       |            | hormones  |
|         | subarctic regions                                 |          | correlation                                  |            | thermoregulation  |
|         | Sand Hills Region (GA-NC-SC)                      |          | covariance                                   |            |   |
|         | . Sand Hills Region (NE)                          |          | experiment design                            |            | s missile   |
|         | . sciatic region                                  |          | factor analysis                              | GS         | missiles  |
|         | . Southeast Asia                                  |          | forecasting                                  |            | . surface to surface missiles                                 |
|         | . Southern California                             |          | least squares method                         | D.T.       | Regulus missile   |
|         | . Southern Yemen                                  |          | quality control                              | RT         | solid propellant rocket engines                               |
|         | . temperate regions                               |          | significance                                 |            | turbojet engines  |
|         | . tropical regions                                |          | statistical tests                            | reheatin   | na  |
|         | Amazon region (South America)                     |          | variability                                  | reheatir.  |   |
|         | . intertropical convergent zones                  |          |  | USE        | heating   |
| RT      | asteroid belts                                    | reares   | ssion coefficients                           | reignitio  | n   |
|         | belts   | GS       |  |            | ignition  |
|         | boundaries  |          | . regression coefficients                    | 302        | -g  |
|         | Earth ionosphere                                  |          | statistical analysis                         | reinford   | ced plastics  |
| ∞       | layers  |          | . variance (statistics)                      |            | Plastics with some strength properties                        |
|         | recovery zones                                    |          | multivariate statistical analysis            |            | superior to those of the base resin,                          |
| 000     | sectors   |          | regression analysis                          |            | g from the presence of high-strength                          |
|         |   |          |  | •          |   |

#### reinforced plates

fillers imbedded in the composition. Note: The reinforcing fillers are usually fibers, fabrics, or mats made of fibers. The plastic laminates are the most common and strongest.

GS composite materials

. polymer matrix composites

#### ... reinforced plastics

... carbon fiber reinforced plastics

. . . . carbon-phenolic composites

. . . glass fiber reinforced plastics

. . micarta

plastics

#### reinforced plastics

. . carbon fiber reinforced plastics

... carbon-phenolic composites

. . glass fiber reinforced plastics

. micarta

aircraft survivability

aramid fiber composites

aramid fibers

boron fibers

boron reinforced materials

fiber composites

graphite-epoxy composites

hybrid composites

**laminates** 

reinforcement (structures)

thermosetting resins

#### reinforced plates

structural members

. plates (structural members)

reinforced plates

anisotropic plates

corrugated plates

laminates plastic plates

reinforcement (structures)

#### reinforced shells

GS shells (structural forms)

. reinforced shells

anisotropic shells

corrugated shells

cylindrical shells

fluid filled shells

hemispherical shells liquid filled shells

metal shells

orthotropic shells

plastic shells

reinforcement (structures)

reinforcement rings

shell stability

spherical shells

thin walled shells toroidal shells

wind tunnel walls

# ∞ reinforcement

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) reinforcement (psychology)

reinforcement (structures)

# reinforcement (psychology)

# reinforcement (psychology) reward (psychology)

RT learning

motivation

∞ reinforcement

self stimulation

### reinforcement (structures)

bulkheads

composite materials

fillers

longerons

reinforced plastics

reinforced plates

reinforced shells

∞ reinforcement reinforcement rings

ribs (supports) rigid structures

ring structures stiffening

strakes

stringers

structural members structural stability

structural strain supports

thick walls

wire wire cloth

reinforcement rings GS ring structures

. reinforcement rings reinforced shells

reinforcement (structures)

ribs (supports)

∞ rinas

#### reinforcing fibers

fibers

#### . reinforcing fibers

. . aramid fibers

. Kevlar (trademark)

. . boron fibers

. carbon fibers

boron reinforced materials

braided composites

carbon fiber reinforced plastics

carbon-carbon composites

ceramic fibers

ceramic matrix composites

composite materials

Dacron (trademark)

debonding (materials)

fiber composites fiber orientation

fiber pullout

fiber pushout

fiber volume fraction

fiber-matrix interfaces glass fiber reinforced plastics

glass fibers

graphite-epoxy composites

hybrid composites

kink bands

lay-up metal fibers

metal matrix composites micromechanics

reinforcing materials

resin transfer molding superhybrid materials

synthetic fibers

whisker composites

woven composites

#### reinforcing materials

DEF Fibers, filaments, fabrics, and other substances used for strengthening of matrices in composite materials.

RT aramid fibers

composite materials

fabrics

fibers

∞ filaments materials

matrix materials

fiber composites

particulate reinforced composites

reinforcing fibers

#### Reissner theory

RT Mindlin plates

plates (structural members)

stress analysis ∞ theories

Reissner-Mindlin plates (added April 1998) USE Mindlin plates

#### Reissner-Nordstrom solution

DEF The unique solution of general relativity theory describing a nonrotating, charged black hole.

astronomical models black holes (astronomy) charged particles gravitational effects

relativity

#### rejection

acceptability elimination evaluation exclusion removal selection

#### relational data bases

(added June 1997) GS data bases

# relational data bases

architecture (computers) computer systems design data base management systems data management

data retrieval

#### ∞ relationships

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) interrelationships SN

approximation

duality theorem homology

stress-strain relationships

# relative biological effectiveness (RBE)

RBE UF GS

biological effects relative biological effectiveness

(RBE)

RT ∞ biology

relativistic effects RT Bose-Einstein condensates

physiological effects

dimensions

∞ effects

gravitational lenses mass

relativity time velocity

# relativistic electron beams

Beams of electrons traveling at approximately the speed of light. Used for REB.

ŔEB

GS beams (radiation)

. particle beams . . electron beams

. . relativistic electron beams particles

. charged particles

. . energetic particles . . . electrons

. . . . high energy electrons

. relativistic electron beams . corpuscular radiation

. . electron radiation ... electron beams . . energetic particles

. . . . relativistic electron beams

... electrons .... high energy electrons

... relativistic electron beams

. elementary particles

. . fermions . . . leptons

. . . . electrons

.... high energy electrons ... relativistic electron beams

. relativistic particles relativistic electron beams

beam plasma amplifiers beta particles controlled fusion

diffraction radiation electron bombardment

electron scattering inertial fusion (reactor) ionizing radiation plasma heating

plasma jets

plasma-particle interactions molecular relaxation ... Relay 2 satellite refractory period relativistic particles Relay satellites relaxation (mechanics) GS artificial satellites DEF Particles with a velocity so large that relaxation (physiology) their relativistic mass exceeds their rest mass by . communication satellites relaxation method (mathematics) an amount which is significant for the computa-.. Relay satellites tion or other considerations at hand. . . . Relay 1 satellite relaxation (mechanics) Relay 2 satellite particles GS relaxation (mechanics) relativistic particles RT Advent Project spin-lattice relaxation relativistic electron beams Thor Delta launch vehicle . stress relaxation RT Hamilton-Jacobi equation transoceanic communication RT ∞ equilibrium releasing
GS releasing expansion relativistic plasmas magnetic relaxation GS particles molecular relaxation . fiber pullout . fiber pushout . charged particles nuclear relaxation . . energetic particles ∞ reduction decoupling . . . plasmas (physics) relaxation ... relativistic plasmas ∞ discharge relaxation method (mathematics) . corpuscular radiation disconnect devices relaxation time . . energetic particles dispersing residual stress . . . plasmas (physics) dumping strain energy release rate .. relativistic plasmas ejection viscoelasticity Astron thermonuclear reactor emission viscoplasticity bremsstrahlung emptying cosmic plasma exhaust emission relaxation (physiology) electron plasma materials handling RT compressibility effects relieving electron-positron plasmas massaging gravitational collapse scattering recreation high temperature plasmas spilling ∞ relaxation pinch effect unloading work-rest cycle plasma jets venting plasma radiation reliability
DEF Of a piece of equipment or a system, relaxation method (mathematics) plasma-particle interactions DEF An iterative numerical method for solvponderomotive forces the probability of specified performance for a ing elliptic partial differential equations, e.g., a relativistic theory Poisson equation. given period of time when used in the specified UF Wightman theory GS analysis (mathematics) RT ∞ theories . numerical analysis GS reliability . aircraft reliability . . approximation relativistic velocity ... relaxation method . circuit reliability DEF A velocity sufficiently high that some properties of a particle of this velocity have values significantly different from those obtaining when the particle is at rest. (mathematics) . component reliability . software reliability RT computational fluid dynamics ∞ methodology . . computer program integrity spacecraft reliability ∞ relaxation GS rates (per time) relaxation (mechanics) . structural reliability relativistic velocity acceptability velocity accuracy relaxation oscillators relativistic velocity aircraft survivability oscillators GS RT high speed allowances . relaxation oscillators hypervelocity assurance . . phantastrons light speed censored data (mathematics) particle motion computer systems performance relaxation time confidence DEF In general, the time required for a confidence limits system, object, or fluid to recover to a specified A principle that postulates the equivaconsistency condition or value after disturbance. Specifically, lence of the description of the universe, in terms cumulative damage the time taken by an exponentially decaying of physical laws, by various observers, or for ∞ design various frames of reference. Used for geometquantity to decrease in amplitude by a factor of design analysis downtime 1/e = 0.3679.rodynamics and space-time continuum. GS time UF geometrodynamics durability . relaxation time dynamic characteristics space-time continuum  $RT \, \infty \, equilibrium$ big bang cosmology errors continuums excitation estimates Maxwell bodies differential geometry expectation event horizon molecular relaxation failure analysis field theory (physics) relaxation (mechanics) forecasting grand unified theory spin-lattice relaxation maintainability gravitational lenses time constant maintenance Gravity Probe B maximum likelihood estimates inertial reference systems ∞ relay mechanical properties light-cone expansion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) disconnect devices missile design Lorentz contraction **MTBF** naked singularities nondestructive tests nonrelativistic mechanics ∞ performance electric contacts paradoxes performance prediction electric relays ponderomotive forces precision logic circuits quantum mechanics prelaunch problems radio relay systems . Reissner-Nordstrom solution probability theory repeaters relativistic effects product development Schwarzschild metric production management space-time functions Relay 1 satellite productivity string theory GS artificial satellites quality . communication satellites supergravity quality control redundancy

#### ∞ relaxation

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN

cross relaxation

tensor analysis

unified field theory

Relay 2 satellite

GS artificial satellites

. . Relay satellites

... Relay 1 satellite

. communication satellites

. . Relay satellites

redundant components

risk

safety factors

sampling specifications

stability

#### reliability analysis

standards

statistical analysis statistical distributions statistical tests ∞ statistics system effectiveness systems compatibility systems engineering ∞ tests tolerances (mechanics) total quality management validity variability vulnerability reliability analysis RT ∞ analyzing design analysis performance prediction preventive maintenance software reliability trend analysis reliability control quality control reliability engineering reliability engineering DEF The engineering discipline which formulates an acceptable combination of design features, repair philosophy, and maintenance resources to achieve a specified level of reliability as an operational requirement, at optimum life cycle costs. reliability control complex systems concurrent engineering RT ∞ engineering fault detection fault tolerance performance prediction quality control sneak circuit analysis system effectiveness system identification systems compatibility systems engineering Taguchi methods total quality management value engineering relic radiation DEF Background radiation resulting from the primordial big bang. astronomy astrophysics background radiation big bang cosmology cosmic microwave background radiation extraterrestrial radiation large-scale structure of the universe Microwave Anisotropy Probe Population III stars ∞ radiation Sunyaev-Zeldovich effect relief maps maps relief maps digital elevation models hypsography photogrammetry photomaps topography relief valves control equipment . regulators . . automatic control valves ... relief valves valves . automatic control valves . relief valves automatic control

hydraulic equipment pressure regulators reactor safety venting vents relieving GS relieving . stress relieving RT ∞ discharge exhausting purging releasing relocation installing positioning replacing reluctance DEF The ratio of the magnetomotive force to the magnetic flux through any cross section of the magnetic circuit. reluctivity magnetic properties GS reluctance magnetic permeability magnetoresistivity reluctivity USE reluctance remagnetization USE magnetization remanence DEF The magnetic flux density which remains in a magnetic circuit after the removal of an applied magnetomotive force. Also called retentivity. GS magnetic properties remanence flux density paleomagnetism remelting USE melting remodulation demodulation intermodulation modulation remote consoles computer components . peripheral equipment (computers) remote consoles consoles

remote consoles

data processing equipment
. peripheral equipment (computers)
. remote consoles
computer components

computer graphics data links

data processing terminals

display devices plotters

readout

#### remote control

Control of an operation from a distance, especially by means of electricity or electronics; a controlling switch, lever, or other device used in this kind of control. Used for electromagnetic control.

electromagnetic control

GS remote control

radio control aircraft control

antiradiation missiles attitude control

automatic control ∞ automation

cascade control ∞ control

control boards controllers

digital command systems dynamic characteristics

electric control electronic control engine control flight control ground based control guidance (motion) hydraulic control ∞ instruments

Kalman-Schmidt filtering manipulators manual control missile control optical control pneumatic control

remote manipulator system rocket engine control satellite control servocontrol servomechanisms spacecraft control teleoperators

telerobotics temperature control turbojet engine control visual control

#### remote handling

telechirics materials handling GS remote handling

manipulators

payload deployment & retrieval system Space Station Mobile Servicing

System teleoperators

#### remote manipulator system

Devices used in space for deploying and retrieving payloads by remote control; also used for space maintenance and/or servicing of satellites and other spacecraft.

manipulators

. remote manipulator system

. Space Station Mobile Servicing System

payload deployment & retrieval system payload retrieval (STS) remote control

space maintenance space transportation system ∞ systems

#### remote regions

GS regions

. remote regions

. . Antarctic regions

. . . McMurdo sound

Ross ice shelf

. . Arctic regions

. . subarctic regions

RT deserts

Mojave Desert (CA) offshore reactor sites

Sahara Desert (Africa)

wilderness

#### remote sensing

DEF The collection of information about an object or phenomena by a recording device that is not in physical contact with it. The term is usually restricted to mean the methods for, and activity of, recording features and phenomena of the Earth surface from a remote platform or vehicle. Typically the methods used record reflected or radiated electromagnetic energy, such as radiometry, photometry, spectrometry, and photographic and radar techniques.

detection

#### . remote sensing

aeromagnetism airborne radar Aqua spacecraft Aura spacecraft band ratioing CALIPSO (Pathfinder satellite)

CERES (experiment) change detection

CloudSat

bypasses

fuel valves

gas valves

fuel tank pressurization

|            | cluster analysis  | wildlife radiolocation   |                                | . rendezvous spacecraft  |
|------------|---|--|--------------------------------|--|
|            | Coastal Zone Color Scanner  | Wilding Tadiologation  | RT                             | Columbus space station   |
|            | data products   | remotely piloted vehicles  | 101                            | command guidance   |
|            | desertification   | UF RPV   |                                | ferry spacecraft   |
|            | differential absorption lidar   | RT ∞ aircraft  |                                | interplanetary spacecraft  |
|            | DMSP satellites   | DAST program   |                                | lunar spacecraft   |
|            |   | drone aircraft   |                                |  |
|            | Earth Observing System (EOS)  | highly maneuverable aircraft   |                                | manned spacecraft  |
|            | Earth resources   | 0 ,  |                                | military spacecraft  |
|            | Envisat-1 satellite   | Jindivik target aircraft   |                                | orbital rendezvous   |
|            | EOS data and information system   | oblique wings  |                                | recoverable spacecraft   |
|            | Feature Identification and Location   | orbital maneuvering vehicles   |                                | space capsules   |
|            | Exper   | pilotless aircraft   |                                | space stations   |
|            | FIRE (climatology)  | target drone aircraft  |                                | spacecrew transfer   |
|            | geographic distribution   | unmanned aircraft systems  |                                | unmanned spacecraft  |
|            | geographic information systems  | unmanned ground vehicles   |                                |  |
|            | image analysis  | VATOL aircraft   |                                | ous trajectories   |
|            | image classification  | ∞ vehicles   | GS                             | trajectories   |
|            | imaging spectrometers   |  |                                | . rendezvous trajectories  |
|            | in situ measurement   | removal  | RT                             | ascent trajectories  |
|            | ISCCP Project   | GS removal   |                                | circumlunar trajectories   |
|            | Landsat 6   | . carbon dioxide removal   |                                | Earth orbital rendezvous   |
|            | Landsat 7   | . paint removal  |                                | Earth-Moon trajectories  |
|            | leaf area index   | RT anodic stripping  |                                | flight mechanics   |
|            | low Earth orbits  | cancellation   |                                | interplanetary trajectories  |
|            |   | clearing   |                                | Near Earth Asteroid Rendezvous   |
|            | Mapsat  | deletion   |                                | Mission  |
|            | MISR (radiometry)   |  |                                |  |
|            | Mission to Planet Earth   | depletion  |                                | orbital mechanics  |
|            | MODIS (radiometry)  | disposal   |                                | orbital rendezvous   |
|            | multisensor applications  | dissipation  |                                | Rosetta mission  |
|            | multisensor fusion  | ejection   |                                | space rendezvous   |
|            | Multispectral Resource Sampler  | emptying   |                                | spacecraft docking   |
|            | normalized difference vegetation  | evacuating (transportation)  |                                | spacecraft trajectories  |
|            | index   | evacuating (vacuum)  |                                | ·  |
|            | observation scheduling  | exhausting   | Rene 4                         | 1  |
|            | OSTA-3 payload  | expulsion  | GS                             | alloys   |
|            | pixels  | extraction   |                                | . chromium alloys  |
|            |   | materials recovery   |                                | Rene 41  |
|            | planetary geology   | •  |                                | . cobalt alloys  |
|            | plant stress  | ∞ reduction  |                                | Rene 41  |
|            | Priroda module  | rejection  |                                |  |
|            | recognition   | ∞ separation   |                                | . heat resistant alloys  |
|            | Shuttle Imaging Radar   | unloading  |                                | refractory metal alloys  |
|            | small satellite technology  | wear   |                                | molybdenum alloys  |
|            | space station polar platforms   |  |                                | Rene 41  |
|            | spectral mixture analysis   | REMS   |                                | . nickel alloys  |
|            | Surface Meteorology and Solar   | USE rapid eye movement state   |                                | Rene 41  |
|            | Energy project  | . ,  |                                | refractory materials   |
|            | Surface Radiation Budget project  | renal calculi  |                                | . refractory metal alloys  |
|            | swath width   | USE calculi  |                                | molybdenum alloys  |
|            |   | kidney stones  |                                | Rene 41  |
|            | Terra spacecraft  | Ridiley Stories  | RT                             |  |
|            | thematic mappers (LANDSAT)  | renal function   | KI                             | wrought alloys   |
|            | vegetative index  | RT ∞ functions   | Rene 63                        |  |
|            |   |  |                                |  |
|            |   | glomerulus   | GS                             | alloys   |
|            | sensors   | kidney stones  |                                | . chromium alloys  |
| GS         | remote sensors  | kidneys  |                                | Rene 63  |
|            | . thematic mappers (LANDSAT)  | vasopressins   |                                | . cobalt alloys  |
| RT         | Advanced Microwave Sounding Unit  |  |                                | Rene 63  |
|            | Advanced Very High Resolution   | rendezvous   |                                | . heat resistant alloys  |
|            | Radiometer  | DEF The event of two or more objects meet-   |                                | refractory metal alloys  |
|            | AgRISTARS project   | ing with zero relative velocity at a preconceived  |                                | molybdenum alloys  |
|            | airborne lasers   | time and place. The point in space at which such   |                                | Rene 63  |
|            | airborne radar  | an event takes place, or is to take place.   |                                | . nickel alloys  |
|            | automatic weather stations  | GS rendezvous  |                                | Rene 63  |
|            | Coastal Zone Color Scanner  | . space rendezvous   |                                | refractory materials   |
|            | crop identification   | orbital rendezvous   |                                | . refractory metal alloys  |
|            | crop inventories  | Earth orbital rendezvous   |                                | molybdenum alloys  |
|            | data acquisition  | lunar orbital rendezvous   |                                | Rene 63  |
|            |   |  |                                | Nelle 03   |
|            | data collection platforms   |  | DT                             | wrought allows   |
|            | data collection platforms   | RT Apollo Soyuz test project   | RT                             | wrought alloys   |
|            | data products   | flight mechanics   |                                |  |
| 00         | data products detectors   | flight mechanics<br>interception   | Rene 7                         | 7  |
| ~          | data products detectors Earth resources   | flight mechanics<br>interception<br>maneuvers  |                                | 7<br>alloys  |
| ~          | data products detectors Earth resources Earthnet  | flight mechanics<br>interception   | Rene 7                         | 7<br>alloys<br>. chromium alloys   |
| ~          | data products detectors Earth resources Earthnet EROS (satellites)  | flight mechanics<br>interception<br>maneuvers<br>orbital mechanics   | Rene 7                         | 7<br>alloys<br>. chromium alloys<br>Rene 77  |
| ~          | data products detectors Earth resources Earthnet  | flight mechanics<br>interception<br>maneuvers  | Rene 7                         | 7<br>alloys<br>. chromium alloys   |
| ox.        | data products detectors Earth resources Earthnet EROS (satellites)  | flight mechanics<br>interception<br>maneuvers<br>orbital mechanics   | Rene 7                         | 7<br>alloys<br>. chromium alloys<br>Rene 77  |
| ox.        | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance   | Rene 7                         | 7 alloys<br>. chromium alloys<br>. Rene 77<br>. cobalt alloys  |
| α          | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion)  | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77   |
| α          | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance  | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys   |
| ×          | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection   | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking   | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys molybdenum alloys   |
| o.         | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance  | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys Rene 77   |
| σ.         | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices   | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys Rene 77 . nickel alloys   |
| ox.        | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications   | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance  | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys . nickel alloys . Rene 77 . nickel alloys . Rene 77   |
|            | data products of detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance   | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys Rene 77 . nickel alloys Rene 77 refractory materials  |
|            | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes  | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous  | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys molybdenum alloys Rene 77 . nickel alloys Rene 77 refractory materials . refractory metal alloys  |
|            | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes radiometric resolution   | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous proportional navigation  | Rene 7                         | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys molybdenum alloys Rene 77 . nickel alloys . Rene 77 refractory materials . refractory metal alloys . molybdenum alloys  |
|            | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes radiometric resolution satellite-borne instruments                                       | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous proportional navigation satellite guidance   | Rene 77<br>GS                  | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys Rene 77 . nickel alloys Rene 77 refractory materials . refractory metal alloys . molybdenum alloys . Rene 77  |
|            | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes radiometric resolution satellite-borne instruments Sea-viewing Wide Field-of-view        | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous proportional navigation satellite guidance spacecraft guidance                   | Rene 77<br>GS                  | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys molybdenum alloys Rene 77 . nickel alloys . Rene 77 refractory materials . refractory metal alloys . molybdenum alloys  |
| $^{\circ}$ | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes radiometric resolution satellite-borne instruments Sea-viewing Wide Field-of-view Sensor | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous proportional navigation satellite guidance   | Rene 77<br>GS                  | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys Rene 77 . nickel alloys . Rene 77 refractory materials . refractory materials . refractory metal alloys . Rene 77 refractory materials . refractory metal alloys . molybdenum alloys . Rene 77 wrought alloys |
| $^{\circ}$ | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes radiometric resolution satellite-borne instruments Sea-viewing Wide Field-of-view Sensor | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous proportional navigation satellite guidance spacecraft guidance terminal guidance | Rene 77<br>GS<br>RT<br>Rene 98 | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys molybdenum alloys Rene 77 . nickel alloys Rene 77 refractory materials . refractory metal alloys molybdenum alloys Rene 77 refractory materials . refractory metal alloys molybdenum alloys Rene 77 wrought alloys                |
| $^{\circ}$ | data products detectors Earth resources Earthnet EROS (satellites) Feature Identification and Location Exper geographic applications program haze detection image classification imaging radar measuring instruments multisensor applications ocean color scanner probes radiometric resolution satellite-borne instruments Sea-viewing Wide Field-of-view Sensor | flight mechanics interception maneuvers orbital mechanics  rendezvous guidance GS guidance (motion) . rendezvous guidance RT Automated Transfer Vehicle autonomous docking command guidance homing devices injection guidance midcourse guidance orbital rendezvous proportional navigation satellite guidance spacecraft guidance                   | Rene 77<br>GS                  | alloys . chromium alloys . Rene 77 . cobalt alloys . Rene 77 . heat resistant alloys . refractory metal alloys . molybdenum alloys Rene 77 . nickel alloys . Rene 77 refractory materials . refractory materials . refractory metal alloys . Rene 77 refractory materials . refractory metal alloys . molybdenum alloys . Rene 77 wrought alloys |

| . chromium alloys  | substitutes   | reproduction  |
|--|---|---|
| Rene 95  | Substitutes   | ∞ reproduction  |
| . cobalt alloys  | replenishment   | stencil processes   |
| Rene 95  | RT filling  | reproductive systems  |
| . heat resistant alloys  | input   | GS anatomy  |
| refractory metal alloys  | ∞ loading   | . genitourinary system  |
| molybdenum alloys  | refilling   | reproductive systems  |
| Rene 95  | refueling   | sex glands  |
| . nickel alloys  | replacing   | gonads  |
| Rene 95  | . opidoning   | ovaries   |
| refractory materials   | replicas  | testes  |
| . refractory metal alloys  | RT electron microscopes   | prostate gland  |
| molybdenum alloys  | metallography   | uterus  |
| Rene 95  | models  | RT birth  |
|  | reproduction (copying)  | chromosomes   |
| renewable energy   |   | fertility   |
| (added December 1998)  | report generators   | fetuses   |
| GS renewable energy  | RT computer programs  | ∞ reproduction  |
| geothermal energy utilization  | computer systems programs   | reproduction (biology)  |
| . hydroelectricity   | ∞ generators  | ∞ systems   |
| . tidepower  | user manuals (computer programs)  | •   |
| . waterwave energy   |   | reptiles  |
| . windpower utilization  | reports   | GS animals  |
| RT bioconversion   | GS reports  | . vertebrates   |
| biomass energy production  | . congressional reports   | reptiles  |
| clean energy   | . postlaunch reports  | lizards   |
| energy policy  | . Presidential reports  | snakes  |
| ∞ energy sources   | . wage surveys  | turtles   |
| energy technology  | RT aerospace technology transfer  | RT poikilothermia   |
| geothermal energy conversion   | conferences<br>∞ discussion   | Demulalia airrest   |
| hydrogen-based energy  |   | Republic aircraft   |
| ocean thermal energy conversion  | documentation   | GS Republic aircraft  |
| solar energy conversion  | documents<br>information  | . A-10 aircraft   |
| Surface Meteorology and Solar  | information dissemination   | . F-84 aircraft   |
| Energy project   | papers  | . F-105 aircraft  |
| waste utilization  | · · ·   | RT ∞ aircraft   |
| waterwave energy conversion  | proposals<br>records  | Panublia of China   |
|  | summaries   | Republic of China<br>USE <b>Taiwan</b>  |
| renin  | supplements   | OSL Talwaii   |
| (added August 2004)  | ··  | Republic of Korea   |
| DEF An enzyme whihc is secreted by the   | technology transfer   | USE South Korea   |
| kidney and is formed from protein in plasma and  | representations   | ool ooun nord   |
| kidney. The enzyme cleaves the Leu-Leu bond  | RT characterization   | Republic of South Africa  |
| in angiotensinogen to generate angiotensin I.  | descriptions  | UF South Africa   |
| GS biopolymers   | drawings  | GS nations  |
| . proteins   | graphs (charts)   | . Republic of South Africa  |
| enzymes  | images  | RT Africa   |
| renin  | photographs   | Botswana  |
| organic compounds  | signatures  | Kalahari Basin (Africa)   |
| . proteins   | signatures  | Lesotho   |
| enzymes  | ∞ reproduction  | Namibia   |
| renin  | SN (USE OF A MORE SPECIFIC TERM IS  | Swaziland   |
| RT angiotensins  | RECOMMENDEDCONSULT THE TERMS  |   |
| kidneys  | LISTED BELOW)   | Republic of Vietnam   |
| •  | RT fertilization  | ÚSE <b>Vietnam</b>  |
| renormalization group methods  | reproduction (biology)  |   |
| (added August 1990)  | reproduction (copying)  | repulsion   |
| RT Monte Carlo method  | reproductive systems  | USE force   |
| normalizing (statistics)   | repreduction (highery)  |   |
| statistical mechanics  | reproduction (biology)  | requirements  |
| turbulence models  | RT ∞ biology  | GS requirements   |
|  | hirth   |   |
| 18.38.00054010   | birth   | . user requirements   |
| reorientation  | breeding (reproduction)   |   |
|  | breeding (reproduction) cell division   | . user requirements<br>RT specifications  |
| reorientation  | breeding (reproduction) cell division cloning (biology)   | user requirements RT specifications rescue operations   |
| reorientation  | breeding (reproduction) cell division cloning (biology) embryology  | . user requirements RT specifications  rescue operations RT aeronautical satellites   |
| reorientation USE retraining   | breeding (reproduction) cell division cloning (biology) embryology fertility  | . user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle   |
| reorientation USE retraining repairing   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses  | . user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS  |
| reorientation USE retraining repairing   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis  | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter   |
| reorientation USE retraining repairing USE maintenance   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny  | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  |
| reorientation USE retraining repairing USE maintenance repeaters UF interpolators GS transmitters  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations  |
| reorientation USE retraining repairing USE maintenance repeaters UF interpolators  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems  | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat   |
| reorientation USE retraining repairing USE maintenance repeaters UF interpolators GS transmitters . repeaters RT amplifiers  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery   |
| reorientation USE retraining repairing USE maintenance repeaters UF interpolators GS transmitters . repeaters RT amplifiers radar receivers  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems  | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat   |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery   |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying)   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating  | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition RT counting  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying)  UF duplicating GS imagery reproduction (copying)   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny or reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery . reproduction (copying) xerography  | user requirements RT specifications  rescue operations  RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition RT counting  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery . reproduction (copying) . xerography RT blueprints   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming low density research  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery . reproduction (copying) xerography RT blueprints document storage  | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming low density research market research  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery . reproduction (copying) xerography RT blueprints document storage drawings engineering drawings lithography  | user requirements RT specifications  rescue operations  RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming low density research market research multidisciplinary research  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition redundancy encoding   | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery reproduction (copying) ∴ xerography RT blueprints document storage drawings engineering drawings lithography microfilms   | user requirements RT specifications  rescue operations RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming low density research multidisciplinary research nonlinear programming nuclear research quadratic programming  |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition redundancy encoding  replacing  | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery . reproduction (copying) xerography RT blueprints document storage drawings engineering drawings lithography  | user requirements RT specifications  rescue operations  RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)   |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition redundancy encoding  replacing  RT damage assessment installing maintenance | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny progeny reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery reproduction (copying) . xerography RT blueprints document storage drawings engineering drawings lithography microfilms photographic processing equipment photography | user requirements RT specifications  rescue operations  RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming low density research multidisciplinary research nonlinear programming nuclear research quadratic programming RT critical path method codesign        |
| reorientation USE retraining  repairing USE maintenance  repeaters  UF interpolators GS transmitters . repeaters  RT amplifiers radar receivers receivers ∞ relay ∞ translators  repetition  RT counting pattern recognition redundancy encoding  replacing  RT damage assessment installing             | breeding (reproduction) cell division cloning (biology) embryology fertility fetuses mitosis progeny ∞ reproduction reproductive systems sex glands zygotes  reproduction (copying) UF duplicating GS imagery . reproduction (copying) xerography RT blueprints document storage drawings engineering drawings lithography microfilms photographic processing equipment                   | user requirements RT specifications  rescue operations  RT aeronautical satellites Assured Crew Return Vehicle COSPAS HH-65 helicopter Marots (ESA)  ∞ operations SarSat spacecraft recovery X-38 crew return vehicle  research GS research dynamic programming high temperature research linear programming low density research market research multidisciplinary research nonlinear programming nuclear research quadratic programming RT critical path method |

| interservice data exchange program               | systems engineering                              | X-35 aircraft                               |
|--|--|---|
| investigation                                    | technology utilization                           | X-36 aircraft                               |
| minimax technique                                | weapons development                              | X-45 aircraft                               |
| ∞ research projects                              | research facilities                              | XH-51 helicopter<br>XV-4 aircraft           |
|  | RT ∞ facilities                                  | XV-4 aliciali                               |
| research aircraft UF experimental aircraft       | laboratories                                     | XV-8A aircraft                              |
| UF experimental aircraft<br>ornithopter aircraft | ∞ research projects                              | XV-9A aircraft                              |
| GS research vehicles                             | space industrialization                          | XV-11A aircraft                             |
| . research aircraft                              | space laboratories                               | . underwater research laboratories          |
| Avian 2/180 autogiro                             | test facilities                                  | . X-30 vehicle                              |
| AVRO 707 aircraft                                |  | . X-37 vehicle                              |
| B-70 aircraft                                    | research management GS management                | . X-40A vehicle                             |
| Breguet 940 aircraft                             | GS management . research management              | . X-43 vehicle                              |
| C-8A augmentor wing aircraft                     | RT allocations                                   | RT boats electric motor vehicles            |
| D-558 aircraft                                   | block diagrams                                   | ∞ flight vehicles                           |
| FD 2 aircraft                                    | ∞ budgets  | lunar roving vehicles                       |
| Firebee 2 target drone aircraft H-17 helicopter  | engineering management                           | Mars roving vehicles                        |
| H-126 aircraft                                   | feasibility analysis                             | ∞ military vehicles                         |
| HP-115 aircraft                                  | goals  | roving vehicles                             |
| meteorological research aircraft                 | industrial management                            | ships                                       |
| Nord 1500 aircraft                               | manpower<br>multidisciplinary research           | space laboratories                          |
| Questol aircraft                                 | operations research                              | ∞ spacecraft                                |
| rotor systems research aircraft                  | personnel  | surface effect ships<br>underwater vehicles |
| SC-1 aircraft                                    | priorities                                       | ∞ vehicles                                  |
| U-2 aircraft<br>VZ-2 aircraft                    | ·  | water vehicles                              |
| VZ-2 aircraft                                    | ∞ research projects                              |   |
| X-1 aircraft                                     | SN (USE OF A MORE SPECIFIC TERM IS               | reserpine                                   |
| X-2 aircraft                                     | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)       | GS bases (chemical)                         |
| X-3 aircraft                                     | RT Chinese space program                         | . alkaloids                                 |
| X-5 aircraft                                     | Earth & Ocean Physics Applications               | reserpine                                   |
| X-13 aircraft                                    | Program  | drugs                                       |
| X-14 aircraft                                    | French space program                             | . pentobarbital sodium<br><b>reserpine</b>  |
| X-15 aircraft                                    | Indian space program                             | nitrogen compounds                          |
| X-19 aircraft                                    | Japanese space program                           | . alkaloids                                 |
| X-20 aircraft<br>X-21 aircraft                   | management<br>NASA programs                      | reserpine                                   |
| X-21 aircraft                                    | programs   | organic compounds                           |
| X-22 aircraft                                    | project management                               | . cyclic compounds                          |
| X-22A aircraft                                   | projects   | heterocyclic compounds                      |
| X-24 aircraft                                    | research   | alkaloids                                   |
| X-31 aircraft                                    | research and development                         | reserpine                                   |
| X-32 aircraft                                    | research facilities                              | RT antihypertensive agents                  |
| X-35 aircraft                                    | space programs                                   | reserves                                    |
| X-36 aircraft                                    | SPHINX   | RT abundance                                |
| X-45 aircraft<br>XH-51 helicopter                | research vehicles                                | availability                                |
| XV-4 aircraft                                    | SN (VEHICLES DESIGNED TO BE SUBJECTS             | backups                                     |
| XV-5 aircraft                                    | OF RESEARCH-NOT RESEARCH EQUIPMENT CONTAINERS)   | contingency                                 |
| XV-8A aircraft                                   | EQUIPMENT CONTAINERS) GS research vehicles       | crude oil                                   |
| XV-9A aircraft                                   | . automated mixed traffic vehicles               | economic factors                            |
| XV-11A aircraft                                  | . research aircraft                              | energy policy                               |
| RT aerospace planes                              | Avian 2/180 autogiro                             | estimates                                   |
| ∞ aircraft                                       | AVRO 707 aircraft                                | estimating<br>evaluation                    |
| drone aircraft                                   | B-70 aircraft                                    | exploitation                                |
| fan in wing aircraft<br>flight test vehicles     | Breguet 940 aircraft                             | exploration                                 |
| flying platforms                                 | C-8A augmentor wing aircraft                     | forecasting                                 |
| ground effect machines                           | D-558 aircraft                                   | inventories                                 |
| hovercraft ground effect machines                | FD 2 aircraft<br>Firebee 2 target drone aircraft | inventory controls                          |
| hypersonic aircraft                              | H-17 helicopter                                  | ∞ materials                                 |
| jet aircraft                                     | H-126 aircraft                                   | mineral deposits                            |
| joined wings                                     | HP-115 aircraft                                  | mines (excavations)<br>∞ production         |
| ∞ military aircraft                              | meteorological research aircraft                 | resources                                   |
| nuclear propelled aircraft                       | Nord 1500 aircraft                               | stockpiling                                 |
| rocket planes<br>submersible aircraft            | Questol aircraft                                 | ∞ storage                                   |
| supersonic aircraft                              | rotor systems research aircraft                  | 3.  |
| tailless aircraft                                | SC-1 aircraft                                    | reservoirs                                  |
| tandem wing aircraft                             | U-2 aircraft                                     | SN (FOR SURFACE WATER STORAGENO             |
| test vehicles                                    | VZ-2 aircraft<br>VZ-8 aircraft                   | OIL OR GAS POOLS)<br>RT dams                |
| tilt wing aircraft                               | X-1 aircraft                                     | evaporation                                 |
| V/STOL aircraft                                  | X-2 aircraft                                     | fresh water                                 |
| vertical takeoff aircraft                        | X-3 aircraft                                     | lagoons                                     |
| ∞ winged vehicles                                | X-5 aircraft                                     | Lake Texoma (OK-TX)                         |
| YF-12 aircraft                                   | X-13 aircraft                                    | lakes                                       |
|  | X-14 aircraft                                    | ponds                                       |
| research and development                         | X-15 aircraft                                    | rivers                                      |
| RT ∞ design                                      | X-19 aircraft                                    | solar ponds (heat storage)                  |
| investigation                                    | X-20 aircraft<br>X-21 aircraft                   | streams                                     |
| management planning operations research          | X-21 aircraft<br>X-21A aircraft                  | water resources<br>windpowered pumps        |
| outer space treaty                               | X-21A aircraft                                   | winapowerea partips                         |
| programs   | X-22 aircraft                                    | residential areas                           |
| project management                               |  |   |
| project management                               | X-24 aircraft                                    | RT cities                                   |
| proposals  | X-24 aircraft<br>X-31 aircraft                   | RT cities inhabitants                       |

#### residential energy

land use infiltration phloroglucinol megalopolises polymer matrix composites plastisols regional planning preforms rural areas resin matrix composites suburban areas resin transfer molding ∞ resistance urban development resin matrix composites Composite materials utilizing a matrix residential energy DEF Household energy requirements in of filaments and/or fibers of glass, metal, or residences, apartments, etc. other material bound with a polymer or resin. energy conservation composite materials energy technology resin matrix composites heat pumps . . boron-epoxy composites solar cooling ... carbon-phenolic composites solar heating graphite-epoxy composites aramid fibers solar houses space cooling (buildings) bismaleimide UF conductance space heating (buildings) epoxy resins hybrid composites water heating matrix materials metal matrix composites residual gas GS gases polyimide resins . residual gas polymer matrix composites aetters constrictions high vacuum prepregs outgassing pultrusion partial pressure resin film infusion ultrahigh vacuum resin transfer molding vacuum apparatus resins damping vacuum tubes sheet molding compounds diffusivity durability resin transfer molding residual strength (added May 1992) UF RTM (composite materials) RT crack propagation fatique (materials) fracture mechanics forming techniques fracture strength . resin transfer molding flammability residual stress casting composite materials ∞ strenath curing tensile strenath fusibility fabrication fiber composites residual stress injection molding In structures, any stress in an unimmunity loaded body. These stresses arise from local matrix materials yielding of the material due to machining, weldmolding materials ing, quenching or cold working. Used for internal molds impedance polymer matrix composites stress. UF internal stress preforms reinforcing fibers GS stresses residual stress resin film infusion RT creep properties resin matrix composites machining resins relaxation (mechanics) GS resins residual strength alkyd resins strain hardening ion exchange resins permeability stress relaxation polyimide resins prevention stress relieving polyurethane resins protection stress-strain relationships quality silicone resins temperature inversions . synthetic resins residues . . addition resins retarding . . . acrylic resins ashes RT sensitivity organic wastes (fuel conversion) vinyl copolymers reaction products polyester resins solid wastes polyether resins stability waste treatment PEEK waste water polymethyl methacrylate wastes . . thermoplastic resins PEEK vulnerability resilience quinoxalines mechanical properties thermoplastic films resilience . . thermosetting resins compressive strength . . . epoxy resins resistance coefficients elastic properties . phenolic epoxy resins USE resistance . . . furan resins shear properties springs (elastic) .... polyamide resins tensile strength . . . . . Kevlar (trademark) resistance heating . Nylon (trademark) ... phenolic resins heating resin bonding . . . . micarta GS bonding arc heating resin bonding . . . phenolic epoxy resins acrylates adhesive bonding Bakelite (trademark) gas heating metal bonding metal-metal bonding bismaleimide

Delrin (trademark)

Lexan (trademark)

phenol formaldehyde

fillers

∞ patterns

melamine

paraplasts

resin matrix composites teflon (trademark) SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)

DEF In electricity, the factor by which the square of the instantaneous conduction current must be multiplied to obtain the power lost by heat dissipation or other permanent radiation of energy away from the electrical current. In mechanics, the opposition by frictional effects to forces tending to produce motion. Used for conductance and resistance coefficients. resistance coefficients abrasion resistance acceleration tolerance acoustic properties aerodynamic drag chemical properties contact resistance corrosion resistance crack propagation creep strength earthquake resistance electrical properties electrical resistance electrical resistivity flow resistance fracture strength Hall resistance ∞ high resistance impact resistance impact strength Kapitza resistance life (durability) magnetoresistivity moisture resistance negative resistance circuits negative resistance devices oxidation resistance radiation tolerance resistance thermometers shock resistance skin resistance thermal resistance tolerances (physiology) transconductance wave resistance wear resistance Joule heating resistance heating electroslag refining levitation melting

resistance thermometers

RT bolometers

GS measuring instruments

. . thermometers

. temperature measuring instruments

. resistance thermometers

resin film infusion

RT

(added August 1997)

fabrication

RFI (composite materials)

composite materials

composite structures

thermocouple pyrometers resistivity USE electrical resistivity resistojet engines UF resistojets GS engines . rocket engines . . electric rocket engines ... electrothermal engines ... resistojet engines RT arc jet engines plasma engines pulsed jet engines space station propulsion resistojets resistojet engines USE resistors tunnel resistors GS attenuators . resistors . . potentiometers (resistors) . . printed resistors . thermistors ballasts (impedances) electric conductors electric filters electric reactors ∞ filaments photoconductors semiconductors (materials) solid state devices The ability of a film, a lens, a combination of both, or a vidicon system to render barely distinguishable a standard pattern of black and white lines. In radar, the minimum angular separation at the antenna at which two targets can be distinguished (a function of beamwidth); or the minimum range at which two targets at the same azimuth can be separated (equal to one half the pulse height). Of a gyro, a measure of response to small changes in input; the maximum value of the minimum input change that will cause a detectable change in the output for inputs greater than the threshold, expressed as a percent of one half the input range. Used for resolving power. resolving power UF resolution GS . angular resolution high resolution
image resolution
radar resolution . radiometric resolution . spatial resolution spectral resolution temporal resolution accuracy automatic traffic advisory and resolution blurring character recognition contrast definition dynamic characteristics high resolution coverage antennas image contrast image enhancement legibility loci numerical aperture ∞ optics perception ∞ power precision resolution cell

sensitivity

Stark effect

spatial filtering

ohmmeters

temperature measurement

∞ resistance

∞ thresholds dielectronic satellite lines tolerances (mechanics) line spectra optical resonance visibility vision plasma resonance resolution cell resonance probes GS measuring instruments RT ∞ cells imaging techniques resonance probes impedance probes radar detection radar imagery magnetic probes resolution microwave plasma probes plasma diagnostics resolvers plasma resonance analog computers tuners instrument transformers resonance radiation transformers USE resonance fluorescence resolving power resonance scattering USE resolution (INTERACTION WITH THE INTERIOR OF THE NUCLEUS--EXCLUDES POTENTIAL SCATTERING) resonance DEF The phenomena of amplification of a nuclear reactions
. nuclear scattering
. resonance scattering free wave or oscillation of a system by a forced wave or oscillation of exactly equal period. The forced wave may arise from an impressed force scattering upon the system or from a boundary condition. . nuclear scattering The growth of the resonant amplitude is charac-. resonance scattering teristically linear in time. Of a system in forced inverse scattering oscillation, the condition which exists when any Mossbauer effect change, however small, in the frequency of neutron scattering excitation causes a decrease in the response of resonance testing the system. GŚ resonance RT damping tests elastic damping . baryon resonance . cyclotron resonance electronic equipment tests . electron cyclotron resonance fatigue tests resonant frequencies . magnetic resonance . . ferromagnetic resonance stability tests . . nuclear magnetic resonance static tests . . . proton magnetic resonance structural stability . . . proton resonance ∞ tests . . paramagnetic resonance vibration tests . . . electron paramagnetic resonance viscous damping . magnetosonic resonance . meson resonance resonant cavities . . X mesons USE cavity resonators acoustic resonance microwave resonance nuclear quadrupole resonance resonant frequencies DEF Frequencies at which resonance exists. Used for natural frequencies and vibrational optical resonance frequencies (structural). orbital resonances (celestial natural frequencies
vibrational frequencies (structural) ÜF mechanics) . plasma resonance GS frequencies . resonant vibration . resonant frequencies spin resonance acoustic frequencies acoustic resonance Foster theory oscillations Overhauser effect antinodes resonant frequencies bandwidth syntony beat frequencies Bordoni peaks tuning vibration cavity resonators critical frequencies resonance charge exchange critical velocity GS exchanging damping . charge exchange dynamic characteristics . resonance charge exchange dynamics electromagnetic absorption spin exchange harmonics resonance fluorescence impedance DEF The emission of radiation by a gas or Mossbauer effect vapor as a result of excitation of atoms to a nodes (standing waves) higher energy level by incident photons at the oscillators resonance frequency of the gas or vapor. Used resonance for resonance radiation. resonance testing resonance radiation resonators emission standing waves . light emission transient response . . luminescence tuners . . . fluorescence tunina . . . resonance fluorescence resonant tunneling atomic excitations (added September 1988) atomic physics quantum electrodynamics barrier layers ∞ radiation electron tunneling negative resistance devices quantum electronics resonance lines Spectral lines which occur either as quantum wells absorption or emission lines. Used for dielectransistors tronic satellite lines tunnel diodes 815

| ۰       | ∞ tunneling                                 |         | . extraterrestrial resources           |         | asthma                              |
|---------|---|---------|--|---------|-------------------------------------|
|         | 4 9   |         | lunar resources                        |         | emphysema                           |
|         | nt vibration                                |         | . Internet resources                   |         | influenza                           |
|         | mechanical resonance                        |         | websites                               |         | pneumonia                           |
| GS      | resonance                                   | RT      | abundance                              |         | tuberculosis                        |
|         | . resonant vibration                        |         | availability                           | RT      | beryllium poisoning                 |
|         | vibration                                   |         | consulting                             |         | congestion                          |
|         | resonant vibration                          |         | depletion                              |         | fungal diseases                     |
| RT      | acoustic resonance                          |         | economic development                   |         | lung morphology                     |
|         | damping                                     |         | economic factors                       |         | pulmonary lesions                   |
|         | dynamic stability                           |         | economic impact                        |         |                                     |
| ۰       | ∞ dynamics                                  |         | economics                              | respira | tory impedance                      |
|         | flapping                                    |         | energy conservation                    | ĠS      | impedance                           |
|         | flutter                                     |         | energy policy                          |         | respiratory impedance               |
|         | mechanical oscillators                      |         | engineering management                 |         | , p                                 |
|         | oscillations                                |         | geothermal technology                  | respira | tory physiology                     |
|         | Q factors                                   |         | Great Lakes (North America)            |         | physiology                          |
|         | stable oscillations                         |         | inventory management                   | 00      | . respiratory physiology            |
|         | structural vibration                        |         | logistics                              | RT      | exercise physiology                 |
|         | undamped oscillations                       |         | logistics management                   |         |                                     |
|         |   |         | man environment interactions           |         | ∞ science                           |
| resonat | tors  |         | manpower                               |         | 4                                   |
| DEF     | In radio and radar applications, circuits   |         | ∞ materials                            |         | tory rate                           |
|         | vill resonate at a given frequency, or over |         | Mississippi River (US)                 | GS      | 4 /                                 |
|         | of frequencies, when properly excited.      |         |  |         | respiratory rate                    |
|         | resonators                                  |         | personnel                              |         | dyspnea                             |
| 00      |   |         | personnel development                  |         | hypoventilation                     |
|         | . cavity resonators                         |         | production management                  |         | tachypnea                           |
|         | superconducting cavity resonators           |         | recycling                              | RT      | hypercapnia                         |
|         | . Helmholtz resonators                      |         | reserves                               |         | hyperpnea                           |
|         | . multimode resonators                      |         | resource allocation                    |         | spirometers                         |
|         | . optical resonators                        |         | site selection                         |         |                                     |
| RT      | delta antennas                              |         | urban development                      | resnira | tory reflexes                       |
|         | electron tubes                              |         | vegetation                             | GS      |                                     |
|         | frequency standards                         |         |  | 00      | . respiratory reflexes              |
|         | grazing flow                                | resour  | ces management                         |         | cough                               |
|         | magnetrons                                  | GS      | management                             |         | Hering-Brever reflex                |
|         | masers                                      |         | . resources management                 |         |                                     |
|         | oscillators                                 |         | forest management                      | DT      | sneezing                            |
|         | resonant frequencies                        |         | reforestation                          | KI (    | ∞ breathing                         |
|         | self excitation                             |         | information resources management       |         |                                     |
|         | tuning                                      |         | land management                        |         | tory system                         |
|         | tuning fork gyroscopes                      |         | resource allocation                    | GS      | anatomy                             |
|         | turning fork gyroscopes                     | RT      |  |         | . respiratory system                |
| recour  | ce allocation                               | KI      | Earth resources                        |         | bronchi                             |
| GS      | allocations                                 |         | environment management                 |         | diaphragm (anatomy)                 |
| GS      |   |         | environmental control                  |         | larynx                              |
|         | resource allocation                         |         | leasing                                |         | glottis                             |
|         | management                                  |         | NASA Interactive Planning System       |         | vocal cords                         |
|         | . resources management                      |         | thermal resources                      |         | lungs                               |
|         | resource allocation                         |         | water runoff                           |         | alveoli                             |
| RT      | distributing                                |         |  |         |                                     |
|         | energy conservation                         | respira | tion                                   |         | nose (anatomy)                      |
|         | energy policy                               | DEF     | The interchange of gases of living or- |         | paranasal sinuses                   |
|         | engineering management                      | ganism  | s and the gases of the medium in which |         | pharynx                             |
|         | logistics                                   |         | e. Used for apnea and inhalation.      |         | trachea                             |
|         | NASA Interactive Planning System            | ÚF      | apnea                                  | RT      | evaporation                         |
|         | outer space treaty                          |         | inhalation                             |         | homeostasis                         |
|         | priorities                                  | GS      | respiration                            |         | hypercapnia                         |
|         | products                                    | 00      | . high altitude breathing              |         | organs                              |
|         | resources                                   |         | . liquid breathing                     |         | pleurae                             |
|         | resources                                   |         |  |         | pulmonary circulation               |
| resourc | cos   | рт      | . pressure breathing                   |         | respiration                         |
|         |   | RT      | alveoli                                |         | ∞ systems                           |
| GS      | resources . Earth resources                 |         | asphyxia                               |         | •                                   |
|         |   |         | ∞ breathing                            | resniro | ometers                             |
|         | forests                                     |         | expiration                             |         | measuring instruments               |
|         | rain forests                                |         | expired air                            | 00      | . respirometers                     |
|         | fossil fuels                                |         | hydrogen metabolism                    | RT      | bioinstrumentation                  |
|         | coal  |         | metabolism                             | KI      |                                     |
|         | anthracite                                  |         | oxygen metabolism                      |         | exhalation                          |
|         | lignite                                     |         | photosynthesis                         |         |                                     |
|         | solvent refined coal                        |         | physiology                             | respon  |                                     |
|         | crude oil                                   |         | plant physiology                       | USE     | transponders                        |
|         | natural gas                                 |         | respirators                            |         |                                     |
|         | liquefied natural gas                       |         | respiratory system                     |         | se bias                             |
|         | peat  |         | resuscitation                          | ĞS      | bias                                |
|         | shale oil                                   |         | sinuses                                |         | . response bias                     |
|         | glaciers                                    |         | Valsalva exercise                      | RT      | dynamic response                    |
|         | . icebergs                                  |         | VAIDAIVA CACIOISE                      |         | errors                              |
|         | kerogen                                     | respira | tors                                   |         | ∞ time response                     |
|         | land ice                                    |         |  |         | transient response                  |
|         |   | GS      | medical equipment                      |         |                                     |
|         | marine resources                            | 5.7     | . respirators                          | ****    | so timo (computero)                 |
|         | oil fields                                  | RT      | breathing apparatus                    |         | se time (computers)                 |
|         | range resources                             |         | emergency breathing techniques         | GS      | time                                |
|         | springs (water)                             |         | respiration                            |         | response time (computers)           |
|         | tar sands                                   |         | resuscitation                          | RT      | computer programming                |
|         | thermal resources                           |         | therapy                                |         | computer systems performance        |
|         | geothermal resources                        |         | • •                                    |         | data processing                     |
|         | geysers                                     | respira | tory diseases                          |         | parallel processing (computers)     |
|         | underwater resources                        |         | diseases                               |         | ,                                   |
|         | water resources                             |         | . respiratory diseases                 | respon  | ses                                 |
|         | aquifers                                    |         | aerosinusitis                          | DEF     | Of devices or systems, the motions  |
|         |   |         |  | DLI     | C. Sevices of Gysteria, the motions |

responses
DEF Of devices or systems, the motions (or

| other o         | output) resulting from excitation under      |           | preservatives                              |                       | . retinal adaptation                       |
|-----------------|--|-----------|--|-----------------------|--|
|                 | d conditions.                                |           | ∞ retarders                                |                       | dark adaptation                            |
| GS              | responses                                    |           | retarding                                  |                       | light adaptation                           |
|                 | . dynamic response                           |           | stabilizers (agents)                       | RT                    | perception                                 |
|                 | transient response                           |           | suppressors                                |                       | visibility                                 |
|                 | . frequency response                         |           | surfactants                                |                       | vision                                     |
|                 | . galvanic skin response                     |           | wear inhibitors                            | retinal               | images                                     |
|                 | . modal response . physiological responses   | ∞ retarde | ers  | GS                    | images                                     |
|                 | . hemodynamic responses                      | SN        | (USE OF A MORE SPECIFIC TERM IS            | 00                    | . retinal images                           |
| RT              | chronaxy                                     | 0.1       | RECOMMENDEDCONSULT THE TERMS               | RT                    | vision                                     |
|                 | learning                                     | DT        | LISTED BELOW) retardants                   |                       | visual fields                              |
|                 | refractory period                            | IXI       | retarders (devices)                        |                       |  |
| 0               | ∞ thresholds                                 |           | retarders (devices)                        | retinen               |  |
|                 | time lag                                     | retarde   | rs (devices)                               | UF                    | vitamin A                                  |
| 0               | ∞ time response                              | RT        | blocking                                   | GS                    | organic compounds                          |
|                 |  |           | brakes (for arresting motion)              |                       | . cyclic compounds                         |
| rest            |  |           | braking                                    |                       | heterocyclic compounds retinene            |
| GS              | rest   |           | constrictions                              |                       | . lipids                                   |
| RT              | . bed rest                                   |           | ∞ retarders                                |                       | retinene                                   |
| KI              | prone position recreation                    |           | retarding                                  |                       | vitamins                                   |
|                 | sitting position                             | retardii  | ng .                                       |                       | . retinene                                 |
|                 | sleep  | UF        | suppression                                | RT                    |  |
|                 | supine position                              | RT        | attenuation                                |                       | carotene                                   |
|                 |  |           | blocking                                   |                       |  |
| restarta        | able rocket engines                          |           | braking                                    | retirem               |  |
| GS              | engines                                      |           | damping                                    | RT                    | employee relations                         |
|                 | . rocket engines                             |           | deceleration                               |                       | industries                                 |
|                 | . restartable rocket engines                 |           | fouling                                    |                       | personnel                                  |
| RT              | ducted rocket engines                        |           | hysteresis                                 |                       | sociology                                  |
|                 | electric rocket engines                      |           | prevention                                 | retirem               | ent for cause                              |
|                 | electrostatic engines                        |           | ∞ reduction                                |                       | Procedure, primarily on aircraft, based    |
|                 | electrothermal engines                       | •         | ∞ resistance                               |                       | ure mechanics, which allows safe utiliza-  |
|                 | hybrid propellant rocket engines ion engines |           | retardants                                 |                       | ne full life capacities of each component. |
|                 | liquid propellant rocket engines             |           | retarders (devices)                        | RT                    | component reliability                      |
|                 | nuclear rocket engines                       |           | stopping                                   |                       | engine parts                               |
|                 | retrorocket engines                          | retardir  | g ion mass spectrometers                   |                       | fatigue life                               |
|                 | solid propellant rocket engines              |           | mass spectrometers                         |                       | fracture strength                          |
|                 | sustainer rocket engines                     |           |  |                       | inventory management                       |
|                 | turborocket engines                          | ∞ retenti | on   |                       | life (durability)                          |
|                 | Vernier engines                              | SN        | (USE OF A MORE SPECIFIC TERM IS            |                       | metal fatigue                              |
|                 |  |           | RECOMMENDEDCONSULT THE TERMS LISTED BELOW) |                       | service life                               |
| restora         |  | RT        | retaining                                  |                       | spare parts                                |
| RT              | addition                                     |           | retention (psychology)                     | RETOR                 | RC (torpedoes)                             |
|                 | reconstruction                               |           |  |                       | torpedoes                                  |
| i               | 40   |           | on (psychology)                            | 002                   | 10. poucos                                 |
| restrain<br>USE | constraints                                  | RT        | learning                                   | retort p              | processing                                 |
| USE             | Constraints                                  |           | memory                                     | DEF                   | One method for converting shale oil        |
| restricti       | ons  | •         | ∞ retention                                |                       | similar to petroleum oils.                 |
| USE             | constrictions                                | reticles  |  | RT                    | fractionation                              |
| 002             |  | DEF       |  |                       | hydrocarbon fuels                          |
| resulta         | nts  |           | ane of an optical instrument to serve as a |                       | oils                                       |
| DEF             | The sums of two or more vectors.             |           | ce. Also called a reticule.                | c                     | ∞ processing                               |
| RT              | vector analysis                              | GS        | reticles                                   |                       | shale oil                                  |
|                 |  |           | . wire grid lenses                         | rotract               | able equipment                             |
| resusci         |  | RT        | contact lenses                             | UF                    | retractable landing gear                   |
| UF              | artificial respiration                       |           | eyepieces                                  | RT                    | aerodynamic brakes                         |
| RT              | emergency breathing techniques               |           | ∞ grids                                    |                       | landing gear                               |
|                 | first aid                                    |           | lenses                                     |                       | refueling                                  |
|                 | liquid breathing                             |           | optical equipment                          |                       | 3  |
|                 | respirators                                  |           | scale (ratio)                              | retracta              | ble landing gear                           |
|                 | respirators                                  |           | and a                                      | USE                   | landing gear                               |
| retainir        | ng   | reticulo  | cells (biology)                            |                       | retractable equipment                      |
| RT              | asteroid capture                             | GS        | . blood cells                              | tini                  |  |
|                 | constraints                                  |           | erythrocytes                               | <b>retraini</b><br>UF | _  |
|                 | containment                                  |           | reticulocytes                              | RT                    | reorientation<br>adaptation                |
| 0               | ∞ holding                                    | RT        | hematology                                 | KI                    | education                                  |
|                 | ∞ joining                                    |           | hemoglobin                                 |                       | management methods                         |
|                 | locking                                      |           | hemolysis                                  |                       | manpower                                   |
| 0               | ∞ retention                                  |           | hemorrhages                                |                       | personnel                                  |
|                 | sealing                                      |           | · ·  |                       | tasks                                      |
| 0               | ∞ storage                                    | retina    |  |                       | training analysis                          |
|                 |  | GS        | anatomy                                    |                       | ,  |
| retarda         |  |           | . sense organs                             | retrieva              |  |
| GS              | retardants                                   |           | eye (anatomy)                              | GS                    | retrieval                                  |
| DΤ              | . flame retardants                           |           | retina                                     |                       | . data retrieval                           |
| RT              | accelerating agents                          | C.T.      | fovea                                      |                       | . information retrieval                    |
|                 | additives                                    | RT        | electroretinography                        | DT                    | . payload retrieval (STS)                  |
|                 | antilicing additives antiknock additives     |           | phosphene                                  | KI d                  | ∞ recovery                                 |
|                 | antioxidants                                 |           | photoreceptors<br>vision                   |                       | searching                                  |
|                 | catalysts                                    |           | visual fields                              | retroaci              | tion                                       |
|                 | explosion suppression                        |           | visual pigments                            | USE                   | retrothrust                                |
|                 | inhibitors                                   |           |  | JOL                   | <del> </del>                               |
|                 | neutralizers                                 | retinal   | adaptation                                 | retrofir              | ing  |
|                 | penetrants                                   | GS        | adaptation                                 | GS                    | firing (igniting)                          |
|                 |  |           |  |                       |  |

. rocket firing . retrofiring deceleration retrorocket engines retrothrust

retrofitting

DEF Modification of equipment to incorporate changes made in later production of similar equipment; the changes may be performed in the factory or in the field.

retrofitting GS

acoustic retrofitting

installing

#### retrograde orbits

(added June 1995)

Motion in an orbit opposite to the usual orbital direction of celestial bodies within a given system. Specifically, of a satellite, motion in a direction opposite to the direction of rotation of the primary.

GS orbits

retrograde orbits

RT interacting galaxies orbital mechanics planetary orbits precession satellite orbits spacecraft orbits stellar orbits three body problem

#### retroreflection

DEF Reflection wherein the reflected rays return along paths parallel to those of their corresponding incident rays. Also called retroflection.

GS reflection

retroreflection

RT antenna arrays incident radiation LAGEOS (satellite) laser ranging lunar retroreflectors reflected waves retroreflectors satellite laser ranging

#### retroreflectors

DEF Class of optical instruments which cause reflected radiation to return along paths parallel to those of their corresponding incident rays

GS radar equipment

retroreflectors reflectors

retroreflectors

laser ranging radar corner reflectors retroreflection satellite laser ranging

### retrorocket engines

Rocket engines fitted on or in spacecraft, satellites, or the like to produce thrust opposed to forward motion.

GS engines

. rocket engines
. retrorocket engines

. . BE-3 engine RT control rockets

internal combustion engines

liquid propellant rocket engines man operated propulsion systems restartable rocket engines

retrofiring

retrothrust

solid propellant rocket engines

Thrust used for a braking maneuver; reverse thrust. Used for retroaction.

UF retroaction

GS thrust

. rocket thrust . retrothrust

RT deceleration retrofiring

retrorocket engines

return beam vidicons

GS electron tubes

camera tubes

. . vidicons

... return beam vidicons

. . thermicons television cameras

#### return to Earth space flight

space flight

. return to Earth space flight

Assured Crew Return Vehicle interplanetary flight manned Mars missions Mars missions spacecraft reentry X-38 crew return vehicle

#### reusable heat shielding

shielding

. heat shielding

. . reusable heat shielding

cooling heat transfer reentry shielding spacecraft shielding temperature control thermal control coatings thermal protection

#### reusable launch vehicles

GS launch vehicles

. reusable launch vehicles

. . single stage to orbit vehicles

... Delta Clipper

HOTOL launch vehicle

. . X-33 reusable launch vehicle

X-34 reusable launch vehicle Advanced Launch System (STS)

Aeromaneuvering Orbit to Orbit Shuttle

recoverable launch vehicles rocket engines spacecraft launching

spacecraft recovery ∞ vehicles

X-37 vehicle X-40A vehicle

#### reusable rocket engines

GS engines

. rocket engines

reusable rocket engines

RT oxygen-hydrocarbon rocket engines

#### reusable spacecraft

GS reentry vehicles
. recoverable spacecraft
. . reusable spacecraft

. . . aerospace planes

HOPE aerospace plane

HOTOL launch vehicle

VentureStar launch vehicle

... X-30 vehicle

. . . . X-37 vehicle

X-40A vehicle

... MARS (Manned Reusable Spacecraft)

single stage to orbit vehicles

. . . . Delta Clipper

. . . . HOTOL launch vehicle

... space shuttles

. Buran space shuttle

Hermes manned spaceplane

Space Shuttle orbiters . . . . . Atlantis (orbiter)

Challenger (Orbiter)

. . . . Columbia (Orbiter) . . . . Discovery (Orbiter)

.... Endeavour (orbiter)

. Enterprise (Orbiter) expendable stages (spacecraft)

ferry spacecraft Inertial Upper Stage interim stages (spacecraft) interplanetary spacecraft landing modules lunar landing modules

manned spacecraft

Saenger space transportation system

soft landing spacecraft Space Shuttle Boosters unmanned spacecraft

X-33 reusable launch vehicle X-34 reusable launch vehicle

reuse

utilization

. software reuse oil recovery

∞ recovery

revenue

RT allocations

assessments budgeting costs

international trade

#### reverberation

The persistance of sound in an enclosed space, as a result of multiple reflections, after the sound source has stopped. The sound that persists in an enclosed space, as a result of repeated reflection or scattering after the source of the sound has stopped.

acoustic properties

. acoustic scattering

. . reverberation scattering

. wave scattering

. . acoustic scattering

. . reverberation

RT echoes

noise (sound)

reverberation chambers

sound waves

#### reverberation chambers

Chambers designed to eliminate outside noise for accurate acoustic measurement.

compartments

. test chambers

. reverberation chambers

test facilities

. reverberation chambers

acoustic measurement acoustic simulation

∞ chambers environmental tests reverberation

reverse engineering (added May 1992)

computer programming design analysis reversing software development tools

software engineering systems engineering

reverse field pinch

DEF A method of plasma confinement under investigation as part of the mirror and pinch programs.

pinch effect

. reverse field pinch

magnetohydrodynamic flow plasma control reactor technology screw pinch toroidal plasmas

#### reverse osmosis

DEF The application of pressure to stop or reverse the transport of solvent through a semipermeable membrane separating two solutions of different solute concentration. The applied pressure required to prevent the flow of solvent across a perfectly semipermeable membrane is called the osmotic pressure and is a characteristic of the solution.

GS osmosis

. reverse osmosis

demineralizing desalinization membranes

permeating . Reynolds number ∞ Group 7B compounds high Reynolds number metal compounds reverse time low Reynolds number rhenium isotopes USE reaction time . Reynolds number GS chemical elements reversed flow . . high Reynolds number . nuclides fluid flow GS . low Reynolds number . . isotopes . reversed flow boundary layer flow rhenium isotopes boundary layer separation recirculative fluid flow boundary layer stability . rhenium boundary layer transition . . rhenium isotopes reversing critical velocity metals separated flow . refractory metals fluid flow Froude number . . rhenium reversing Grashof number . . rhenium isotopes RT ∞ direction inviscid flow . transition metals reverse engineering laminar flow . . rhenium reversed flow Peclet number . rhenium isotopes Prandtl number refractory materials reviewing . refractory metals Richardson number RT ∞ discussion . . rhenium scale effect evaluation transition points . . rhenium isotopes RT radioactive isotopes turbulent flow training evaluation viscous flow rheocasting revisions DEF Use of partially solidified metal alloys Reynolds stress UF alteration In the mathematical treatment of a (fractions solids) fed directly into a casting mamodification viscous, imcompressible, homogeneous fluid in chine for forming into machine parts. RT adjusting GS forming techniques
. casting turbulent motion, that represents the transfer of momentum due to turbulent fluctuations. contracts correction . rheocasting GS stresses extensions Reynolds stress alloys cast alloys variations RT incompressible flow Navier-Stokes equation dies revolution (motion) Reynolds averaging forging USE revolving slurries turbulent boundary layer solidification turbulent flow revolving DEF Moving in a path about an axis, usually external to the body accomplishing the motion. Used for revolution (motion). rheoelectrical simulation RF-4 aircraft simulation USE F-4 aircraft GS rheoelectrical simulation revolution (motion) RF-8 aircraft analog circuits GS gyration analog simulation . revolving USE F-8 aircraft bionics angular velocity RT RFI (composite materials) flow distribution centripetal force (added August 1997) rotation USE resin film infusion rheoencephalography blood circulation reward (psychology)
GS reinforcement (psychology) RH-2 helicopter
USE UH-1 helicopter brain brain circulation reward (psychology) comfort rheology
DEF The study of the deformation and flow Rhea (astronomy) human reactions DEF A natural satellite of the planet Saturn psychological factors orbiting at a mean distance of 527,000 kilomeof matter. electrorheological fluids Reynolds averaging GS celestial bodies flow measurement (added October 1997) . natural satellites flow theory analysis (mathematics) . . icy satellites . numerical analysis ∞ fluids . . . Rhea (astronomy)
. . . Saturn satellites liquid flow . . approximation magnetorheological fluids . . Reynolds averaging . Rhea (astronomy) Maxwell fluids average Saturn (planet) nonNewtonian fluids boundary layer equations solar system computational fluid dynamics plastic flow plastic properties flow equations large eddy simulation Navier-Stokes equation Reynolds stress rhenium viscosity chemical elements . rhenium rheometers turbulence models . rhenium isotopes GS measuring instruments metals . flowmeters . refractory metals . rheometers Reynolds equation Reynolds law . . rhenium RT blood circulation . rhenium isotopes GS equations of motion Reynolds equation . transition metals Rhesus factor RT antigens flow equations . . rhenium . rhenium isotopes . Reynolds equation blood aerodynamic configurations ∞ equations refractory materials congenital anomalies . refractory metals Navier-Stokes equation . . rhenium rheumatic diseases ... rhenium isotopes GS diseases scale models . rheumatic diseases rhenium alloys arthritis Revnolds law USE Reynolds equation alloys . heat resistant alloys rhizopus . . refractory metal alloys Reynolds number GS plants (botany) DEF A nondimensional parameter repre-. . rhenium alloys . funai senting the ratio of the momentum forces to the refractory materials rhizopus viscous forces in fluid flow. (After Osborne Rey-. refractory metal alloys RT blight nolds, 1842-1912, English scientist). Used for critical Reynolds number. . . rhenium alloys ∞ mold

rhenium compounds

RT ∞ chemical compounds

UF

GS

critical Reynolds number

dimensionless numbers

rhodamine

(added July 1988)

### **Rhode Island**

| GS       | dyes                                      |          | vector mesons  | RT       | boundary layer control                     |
|----------|---|----------|--|----------|--|
| 00       | . rhodamine                               |          | rho-mesons   | 131      | drag reduction                             |
|          | organic compounds                         |          | fermions   |          | friction drag                              |
|          | . cyclic compounds                        |          | baryons  |          | shear layers                               |
|          | rhodamine                                 |          | rho-mesons   |          | skin friction                              |
| RT       | amines                                    |          | hadrons  |          | striation                                  |
|          | dye lasers                                |          | baryons  |          | turbulent boundary layer                   |
|          | fluorescence                              |          | rho-mesons   |          | vortex alleviation                         |
|          | laser materials                           |          | mesons   |          |  |
| Dhada I  | laland                                    |          | vector mesons  | riboflav | vin .                                      |
| Rhode I  | nations                                   |          | rho-mesons   | UF       | vitamin B 2                                |
| 63       | . United States                           |          | . nuclear particles  |          | vitamin G                                  |
|          | Rhode Island                              |          | bosons<br>mesons   | GS       | 0 1  |
| RT       | Block Island Sound (RI)                   |          | vector mesons  |          | . cyclic compounds                         |
|          | Dissir Island Seand (III)                 |          | rho-mesons   |          | heterocyclic compounds                     |
| Rhodesi  | ia  | RT       | charged particles  |          | riboflavin                                 |
| USE      | Zimbabwe                                  |          | eta-mesons   |          | vitamins<br>. riboflavin                   |
| rhodiun  | n   | Dhana    | Dolto (France)   |          | ·    |
| GS       | chemical elements                         | GS       | Delta (France) landforms   | ribonu   | cleic acids                                |
|          | . rhodium                                 | GS       | . deltas   |          | A chemical found in the nucleus and        |
|          | rhodium isotopes                          |          | Rhone Delta (France)   |          | sm of cells. It plays an important role in |
|          | metals                                    | RT       | France   |          | synthesis and other chemical activities o  |
|          | . transition metals                       |          | Mediterranean Sea  |          | . Used for RNA, messenger RNA, trans       |
|          | rhodium                                   |          | rivers   |          | A, and ribosomal RNA.                      |
|          | rhodium isotopes                          |          |  | UF       | messenger RNA                              |
| , ,      | 100                                       | rhyolite | <b>)</b>   |          | ribosomal RNA                              |
| rhodium  |   | GS       | rocks  |          | transfer RNA                               |
| USE      | rhodium isotopes                          |          | . igneous rocks  | GS       | acids                                      |
| rhodium  | 106                                       |          | . rhyolite   |          | . nucleic acids                            |
| USE      |   | RT       | lava   |          | . ribonucleic acids                        |
| 002      | modium loctopes                           |          | magma  |          | biopolymers                                |
| rhodiun  | n alloys                                  |          | silicon dioxide  |          | . nucleic acids<br>ribonucleic acids       |
| GS       | alloys                                    | ∞ rhythm | 1  |          | organic compounds                          |
|          | . rhodium alloys                          | SN       | (USE OF A MORE SPECIFIC TERM IS                                      |          | . nucleic acids                            |
| RT       | platinum alloys                           | 0.1      | RECOMMENDEDCONSULT THE TERMS   |          | ribonucleic acids                          |
|          |   | RT       | LISTED BELOW)<br>oscillations  | RT       | adenines                                   |
|          | n compounds                               | KI       | periodic variations  |          | gene expression                            |
|          | chemical compounds Group 8 compounds      |          | rhythm (biology)   |          | genes                                      |
|          | Group & compounds                         |          | myami (siciogy)  |          | genome                                     |
| rhodiun  | n isotopes                                | rhythm   | (biology)  |          | guanosines                                 |
| UF       | rhodium 102                               | UF       | biological clocks  |          | polynucleotides                            |
|          | rhodium 106                               |          | biological rhythm  |          | ribosomes                                  |
| GS       | chemical elements                         |          | biorhythms   |          | transcription (genetics)                   |
|          | . nuclides                                |          | chronobiology  |          |  |
|          | isotopes                                  |          | periodicity (biology)  | ribose   |  |
|          | rhodium isotopes                          | GS       | rhythm (biology)   | GS       | organic compounds                          |
|          | . rhodium                                 |          | . circadian rhythms  |          | carbohydrates                              |
|          | . rhodium isotopes                        | RT       | activity cycles (biology)  |          | sugars                                     |
|          | metals                                    |          | alternations   |          | monosaccharides                            |
|          | . transition metals                       | c        | ∘ biology  |          | pentose                                    |
|          | rhodium                                   |          | cycles desynchronization (biology)                                   |          | ribose                                     |
|          | rhodium isotopes                          |          | jet lag  | RT       | nucleosides                                |
| rhombio  | c antennas                                |          | phenology  |          |  |
|          | Antennas composed of long wire ra-        | c        | ∘ rhythm   |          | nal RNA                                    |
|          | comprising the sides of a rhombus. The    |          | zeitgebers   | USE      | ribonucleic acids                          |
|          | usually is terminated in an impedance.    |          |  |          |  |
| The side | es of the rhombus, the angle between      |          | parachutes   | ribosor  | nes  |
|          | s, the elevation, and the termination are |          | Parachutes having a canopy consist-                                  |          | led August 2004)                           |
|          | oned to give the desired directivity.     |          | n arrangement of closely spaced tapes.                               |          | A class of multi-component structures      |
| GS       | antennas                                  |          | parachutes have high porosity with atten-                            |          | n all cells, in mitochondria, and chloro   |
|          | . directional antennas                    |          | ability and slight opening shock.                                    |          | They have roles both in genetic transla    |
| DT       | rhombic antennas                          | GS       | parachutes<br>. ribbon parachutes                                    |          | transcripts and in the manufacture and     |
| RT       | antenna design<br>radio antennas          | RT       | drag chutes  |          | on of the proteins.                        |
|          | radio antennas                            | IXI      | recovery parachutes  | GS       | organelles<br>. ribosomes                  |
| rhombo   | hedrons                                   |          | recovery paracriates   | RT       | cells (biology)                            |
| GS       | geometry                                  | ribbons  | 5  | 131      | cytoplasm                                  |
|          | . Euclidean geometry                      | RT       | conveyors  |          | ribonucleic acids                          |
|          | polyhedrons                               |          | fabrics  |          | nicondicio delde                           |
|          | rhombohedrons                             |          | fasteners  | ribe (eı | innorte)                                   |
|          |   |          | metal strips   |          | upports)<br>longerons                      |
| rhombo   |   |          | ∘ strip  | KI       | reinforcement (structures)                 |
| DEF      | Parallelograms whose adjacent sides       | c        | ∘ tapes  |          | reinforcement rings                        |
| are not  | •   | rible4c  |  |          | stiffening                                 |
| GS       | geometry                                  | riblets  | ad Octobor 1088)   |          | webs (supports)                            |
|          | . Euclidean geometry                      |          | ed October 1988)   |          | V11/                                       |
|          | polygons                                  |          | Longitudinal striations forming ed grooves on aerodynamic and hydro- | Riccati  | equation                                   |
|          | tetragons parallelograms                  |          | surfaces. The riblet devices act to                                  |          | algebra                                    |
|          | rhomboids                                 | ,        | large-scale disturbances near the                                    | 00       | . linear equations                         |
|          |   |          | ry layer. These grooves are dimensional                              |          | Riccati equation                           |
| rho-mes  | sons                                      |          | order of the wall vortices and turbulent                             |          | analysis (mathematics)                     |
| GS       | particles                                 | dimensi  |  |          | . real variables                           |
|          | . elementary particles                    | GS       | grooves  |          | differential equations                     |
|          | bosons                                    |          | . V grooves  |          | Riccati equation                           |
|          | mesons                                    |          | riblets  |          | linear equations                           |

|   | Riccati equation   |  | . Riesz theorem   |                               | steel structures   |
|---|--|--|---|-------------------------------|--|
|   | •  | RT   | differential equations  | ~                             | o structures   |
| rice  |  |  | hyperbolic functions  |                               | translational motion   |
| GS  | farm crops   | rifles   |   |                               | welded structures  |
|   | . grains (food)<br>rice  | GS   | weapons   | rigid wi                      | nge  |
|   | plants (botany)  | 00   | . guns (ordnance)   | SN                            | (EXCLUDES 'RIGID ROTORS')  |
|   | . rice   |  | rifles  | ĞS                            | airfoils   |
| RT  | wheat  | RT   | artillery   |                               | . wings  |
|   |  | DIET (   |   |                               | rigid wings  |
|   | ls theorem   | UF UF  | eactor in flight test)  |                               | rigid structures   |
| GS  | theorems . Richards theorem  | RT   | reactor in flight test program electric propulsion  | RT                            | . <b>rigid wings</b><br>aeroelasticity   |
| RT  | network synthesis  |  | • reactors  | KI                            | fixed wings  |
| IXI   | signal flow graphs   |  | rocket engines  |                               | flexible wings   |
|   | ergreen near grephile  |  | Rover project   |                               | low aspect ratio wings   |
|   | Ison number  |  | Saturn project  |                               |  |
|   | A nondimensional number arising in   | rift valla   |   | ∞ rigidity                    |  |
|   | y of shearing flows of a stratified fluid.   | rift valle   | valleys   | SN                            | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   |
| GS  | dimensionless numbers  | USL  | valleys   |                               | LISTED BELOW)  |
|   | . Richardson number ratios   | rifts  |   | RT                            | flexibility  |
|   | . Richardson number  | USE  | geological faults   |                               | magnetic rigidity  |
| RT  | aerodynamic stability  |  |   |                               | mechanical properties  |
|   | Reynolds number  | rigging  |   |                               | modulus of elasticity  |
|   | shear flow   | RT   | assembling  |                               | ruggedness<br>stiffness  |
|   |  |  | construction  |                               | structural stability   |
|   | son-Dushman equation   | •  | ∘ equipment<br>materials handling   |                               | otraotarar otability   |
| USE   | temperature effects  |  | shrouds   | rills                         |  |
|   | thermionic emission  |  | Sillouds  | USE                           | valleys  |
| #: d = a =  |  | rigid bo   | dies  |                               | -  |
| ridges<br>SN  | ((USE OF A MORE SPECIFIC TERM IS   |  | rigid structures  | rims                          |  |
| SIN   | RECOMMENDEDCONSULT THE TERMS   |  | _   | RT ∝                          | ∘ blades   |
|   | LISTED BELOW)  | rigid m  |   |                               | borders  |
| UF  | cuestas  | GS   | mounting  |                               | edges  |
| RT  | hogbacks   | рт   | . rigid mounting  |                               | margins<br>sides   |
| IXI   | bridges (landforms) buckling   | RT   | pylon mounting  |                               | sides  |
|   | corrugating  | rigid ro   | tor helicopters   | ring cu                       | rrents   |
|   | gaps (geology)   |  | V/STOL aircraft   | ĞS                            | electric current   |
|   | karst  |  | . rotary wing aircraft  |                               | . ring currents  |
|   | landforms  |  | helicopters   | RT                            | atmospheric electricity  |
|   | mid-ocean ridges   |  | rigid rotor helicopters   |                               | electrojets  |
|   | mountains  |  | CH-3 helicopter   |                               | plasma currents  |
|   | protuberances  |  | F-28 helicopter   | ring die                      | chargo   |
|   | wrinkling  | рт   | XH-51 helicopter  | ring dis<br>GS                | electric current   |
| riding o  | uslity   | KI °   | ∘ aircraft<br>OH-5 helicopter   | 00                            | electric discharges  |
|   | quality  |  | Of 1-3 Helicopter   |                               | Townsend discharge   |
| 00  | riding quality   | rigid ro   | tors  |                               | gas discharges   |
| RT  | comfort  | UF   | hingeless rotors  |                               | toroidal discharge   |
|   | passengers   | GS   | airfoils  |                               | ring discharge   |
|   | seats  |  | . wings   | RT ∝                          | o discharge  |
|   | suspension systems (vehicles)  |  | . rotary wings  |                               | electrodeless discharges   |
|   | transportation   |  | rigid rotors  |                               | gas ionization   |
| Diaman  | n integral   |  | rigid structures  |                               | high frequencies   |
|   | n media  |  | rigid rotore  |                               | radio fraguancy discharge  |
| UUL   |  |  | . rigid rotors  |                               | radio frequency discharge  |
|   | measure and integration  |  | rotating bodies   | ring gal                      |  |
| Rieman  | measure and integration  |  | rotating bodies . rotors  | ring gal                      | laxies   |
| Rieman<br>UF  |  |  | rotating bodies   |                               |  |
|   | measure and integration n manifold   | RT   | rotating bodies<br>. rotors<br>rotary wings   | (adde                         | laxies<br>ed November 1988)<br>celestial bodies<br>. galaxies  |
|   | measure and integration  n manifold Riemann space Riemann sphere geometry  |  | rotating bodies . rotors rotary wings rigid rotors bearingless rotors   | (adde<br>GS                   | laxies<br>ed November 1988)<br>celestial bodies<br>galaxies<br>ring galaxies   |
| UF  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry  | rigid ro   | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors tors (plasma physics)   | (adde                         | laxies ed November 1988) celestial bodies galaxies ring galaxies elliptical galaxies   |
| UF  | measure and integration  n manifold Riemann space Riemann sphere geometry differential geometry Riemann manifold   | rigid ro<br>DEF                                    | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cir-  | (adde<br>GS                   | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution  |
| UF  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics)   | rigid ro<br>DEF<br>cular of                        | rotating bodies . rotors rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirronearly circular orbits at a constant   | (adde<br>GS                   | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure   |
| UF<br>GS  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold  | rigid ro<br>DEF<br>cular of<br>angular             | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenearly circular orbits at a constant frequency.  | (adde<br>GS                   | laxies ed November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies  |
| UF  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics)   | rigid ro<br>DEF<br>cular of<br>angular             | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirral nearly circular orbits at a constant frequency. rigid rotors (plasma physics)  | (adde<br>GS                   | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure   |
| UF<br>GS<br>RT  | measure and integration  n manifold Riemann space Riemann sphere geometry differential geometry Riemann manifold manifolds (mathematics) Riemann manifold Euclidean geometry   | rigid ro<br>DEF<br>cular or<br>angular<br>GS       | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics   | (adde<br>GS<br>RT             | laxies ed November 1988) celestial bodies galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies  |
| UF<br>GS<br>RT<br>Rieman  | measure and integration  n manifold  Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem   | rigid ro<br>DEF<br>cular of<br>angular             | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenarly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions   | (adde<br>GS<br>RT<br>ring las | laxies and November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies   |
| UF<br>GS<br>RT<br>Rieman  | measure and integration  n manifold Riemann space Riemann sphere geometry differential geometry Riemann manifold manifolds (mathematics) Riemann manifold Euclidean geometry   | rigid ro<br>DEF<br>cular of<br>angular<br>GS<br>RT | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics   | (adde<br>GS<br>RT             | laxies ed November 1988) celestial bodies galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies  |
| UF<br>GS<br>RT<br>Rieman  | measure and integration  n manifold  Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem  | rigid ro<br>DEF<br>cular of<br>angular<br>GS<br>RT | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation   | (adde<br>GS<br>RT<br>ring las | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies sers stimulated emission devices   |
| UF<br>GS<br>RT<br>Rieman<br>USE<br>Rieman                           | measure and integration  n manifold  Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem  | rigid ro<br>DEF<br>cular or<br>angular<br>GS<br>RT | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  | ring las                      | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies stimulated emission devices lasers ring lasers  |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE                  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold  | rigid ro DEF cular or angular GS RT                | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelary circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control ructures   | ring las<br>GS                | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies sers stimulated emission devices . lasers . ring lasers uctures  |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE                  | measure and integration  n manifold  Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem  n space Riemann manifold n sphere   | rigid ro DEF cular or angular GS RT                | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelating electrons rotation electrons moving in cirrelating electrons moving in cirrelating electrons moving in cirrelating electrons moving in cirrelating electrons moving in cirrelating electrons moving in cirrelating electrons moving in cirrelating electrons moving in cirrelation electrons (plasma physics) . plasma physics molecular collisions molecular rotation . physics plasma control ructures inelastic bodies | ring las<br>GS                | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies ers stimulated emission devices . lasers . ring lasers uctures ring structures   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE                  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold  | rigid ro DEF cular or angular GS RT                | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies  | ring las<br>GS                | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies stimulated emission devices . lasers . ring lasers  uctures ring structures . reinforcement rings  |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE                  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold  | rigid ro DEF cular or angular GS RT  rigid str     | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenarly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies stiff structures  | ring las GS ring str          | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies stimulated emission devices lasers ring lasers uctures ring structures ring ordered rings   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.       | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves  | rigid ro DEF cular or angular GS RT                | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelar nearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies stiff structures rigid structures  | ring las GS ring str GS       | laxies and November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies ers stimulated emission devices . lasers . ring lasers  uctures ring structures . reinforcement rings . ring wings aerodynamic configurations   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE                  | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves   | rigid ro DEF cular or angular GS RT  rigid str     | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelative circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies stiff structures rigid structures . rigid rotors   | ring las GS ring str GS       | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies stimulated emission devices . lasers . ring lasers  uctures ring structures . ring wings aerodynamic configurations bands  |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.       | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves  | rigid ro DEF cular or angular GS RT  rigid str     | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelar nearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies stiff structures rigid structures  | ring las GS ring str GS       | laxies ed November 1988) celestial bodies galaxies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies ers stimulated emission devices lasers ring lasers  uctures ring structures reinforcement rings ring wings aerodynamic configurations bands hoops   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.       | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves . shock waves  | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control ructures inelastic bodies rigid bodies stiff structures rigid structures rigid wings   | ring las GS ring str GS RT    | laxies ed November 1988) celestial bodies . galaxies . ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies  timulated emission devices . lasers . ring lasers  uctures ring structures . reinforcement rings . ring wings aerodynamic configurations bands hoops reinforcement (structures)   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.<br>GS | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem  n space Riemann manifold  n sphere Riemann manifold  n waves elastic waves . shock waves . Riemann waves   | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelar nearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies stiff structures rigid structures rigid rotors rigid wings arches  | ring las GS  ring str GS      | laxies ed November 1988) celestial bodies galaxies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies ers stimulated emission devices lasers ring lasers  uctures ring structures reinforcement rings ring wings aerodynamic configurations bands hoops   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.<br>GS | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves . Shock waves . Riemann waves blast loads  | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrelar nearly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control ructures inelastic bodies rigid bodies stiff structures rigid structures rigid structures rigid i dotors . rigid wings arches composite materials  | ring las GS  ring str GS      | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies stimulated emission devices lasers ring lasers  uctures ring structures ring structures ring one spiral galaxies spiral galaxies sers stimulated emission devices lasers ring lasers uctures ring structures reinforcement rings ring wings aerodynamic configurations bands hoops reinforcement (structures)   |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.<br>GS | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves . shock waves . Riemann waves blast loads differential equations dynamic pressure explosions | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control ructures inelastic bodies rigid bodies stiff structures rigid structures rigid wings arches composite materials concrete structures Euler equations of motion hybrid structures  | ring las GS  ring str GS  RT  | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies stimulated emission devices lasers ring lasers uctures ring structures ring structures ring wings aerodynamic configurations hoops reinforcement (structures) rings structures  |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.<br>GS | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . fiemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves . Riemann waves blast loads differential equations dynamic pressure  | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenarly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation e physics plasma control ructures inelastic bodies rigid bodies stiff structures rigid structures . rigid vings arches composite materials concrete structures Euler equations of motion hybrid structures plastic bodies  | ring las GS  ring str GS  RT  | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies ers stimulated emission devices lasers ring lasers  uctures ring structures ring structures ring one of the properties of t |
| RT Rieman. USE Rieman. USE Rieman. USE Rieman. GS RT                | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves . shock waves . Riemann waves blast loads differential equations dynamic pressure explosions hyperbolic functions    | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenarly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation physics plasma control  ructures inelastic bodies rigid bodies stiff structures rigid structures rigid wings arches composite materials concrete structures Euler equations of motion hybrid structures plastic bodies reinforcement (structures)  | ring las GS  ring str GS  RT  | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies stimulated emission devices lasers ring lasers  uctures ring structures reinforcement rings ring wings aerodynamic configurations bands hoops reinforcement (structures) rings structures structures structures structures ring structures structures structures structures structures structures structures structures structures  |
| UF<br>GS<br>RT<br>Rieman.<br>USE<br>Rieman.<br>USE<br>Rieman.<br>GS | measure and integration  n manifold Riemann space Riemann sphere geometry . differential geometry . Riemann manifold manifolds (mathematics) . Riemann manifold Euclidean geometry  n problem Cauchy problem n space Riemann manifold n sphere Riemann manifold n waves elastic waves . shock waves . Riemann waves blast loads differential equations dynamic pressure explosions hyperbolic functions    | rigid ro DEF cular of angular GS RT  rigid str UF  | rotating bodies . rotors . rotary wings rigid rotors bearingless rotors  tors (plasma physics) Ensembles of electrons moving in cirrenarly circular orbits at a constant frequency. rigid rotors (plasma physics) . plasma physics molecular collisions molecular rotation e physics plasma control ructures inelastic bodies rigid bodies stiff structures rigid structures . rigid vings arches composite materials concrete structures Euler equations of motion hybrid structures plastic bodies  | ring las GS  ring str GS  RT  | laxies and November 1988) celestial bodies galaxies ring galaxies elliptical galaxies galactic evolution galactic structure interacting galaxies spiral galaxies spiral galaxies ers stimulated emission devices lasers ring lasers  uctures ring structures ring structures ring one of the following sacrodynamic configurations hoops reinforcement (structures) rings structures rings structures structures ring structures ring structures structures structures structures structures structures structures structures structures structures structures structures structures   |

## Ringleb flow

|               | unswept wings  | GS       | computer components                                 |          | Sacramento Valley (CA)  |
|---------------|--|----------|---|----------|---|
|               | ring wings   |          | . central processing units                          |          | Saginaw Bay (MI)  |
|               | ring structures  | RT       | RISC processors                                     |          | San Joaquin Valley (CA)<br>Shenandoah Valley (VA)                     |
| RT            | . ring wings<br>ducted fans  | KI       | architecture (computers) chips (electronics)        |          | vadose water  |
| IXI           | shrouded propellers  |          | computer programming                                |          | watersheds  |
|               | twisted wings  |          | computer systems performance                        |          | Watersheds  |
|               | tmotou migo  |          | firmware  | rivers   |   |
| Ringle        | oflow  |          | pipelining (computers)                              | DEF      | A general term for natural fresh water                                |
|               | led July 1998)   |          | systems-on-a-chip                                   |          | streams of considerable volume and                                    |
| GS            | fluid flow   |          | very large scale integration                        |          | ent or seasonal flow, moving in definite                              |
|               | . compressible flow  |          |   |          | ls toward seas, lakes, or other rivers.                               |
|               | Ringleb flow   | risers   |   |          | are large streams or ones larger than                                 |
|               | . steady flow Ringleb flow   | RT       | castings<br>pipes (tubes)                           |          | or creeks, such as trunk systems and the ranches of drainage systems. |
|               | . two dimensional flow   |          | pipes (tubes)                                       |          | rivers  |
|               | Ringleb flow   | risk     |   | 00       | . Colorado River (North America)                                      |
| RT            | critical flow  | DEF      | The combined effect of the liklihood of             |          | . Hudson River (NY-NJ)  |
|               | subsonic flow  | an unfa  | vorable occurrence and the potential                |          | . Mississippi River (US)  |
|               | transonic flow   |          | of that occurrence.                                 |          | . Missouri River (US)   |
|               |  | RT       | acceptability                                       |          | . Ohio River (US)   |
| ∞ rings<br>SN | (LICE OF A MODE ODEOLEIC TERM IC   |          | assumptions   | DT       | . Rio Grande (North America)  |
| SIN           | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                     | ۰        | capacity commerce                                   | KI       | alluvium  |
|               | LISTED BELOW)  |          | confidence  |          | Amazon region (South America) Atchafalaya River Basin (LA)            |
| RT            | annuli   |          | confidence limits                                   |          | aufeis (ice)  |
|               | bodies of revolution   |          | contingency   |          | bayous  |
|               | circles (geometry) Jupiter rings   |          | decision theory                                     |          | canyons   |
|               | O ring seals   |          | estimates   |          | Columbia River Basin (ID-OR-WA)                                       |
|               | planetary rings  |          | estimating  |          | Delaware River Basin (US)   |
|               | reinforcement rings  |          | finance   |          | deltas  |
|               | ring structures  |          | forecasting   |          | Earth resources   |
|               | rings (mathematics)  |          | game theory   |          | erosion   |
|               | Saturn rings   |          | hazards inventory controls                          |          | estuaries   |
|               | storage rings (particle accelerators)  |          | mathematical models                                 |          | Feather River Basin (CA) inland waters                                |
|               | toroidal plasmas   |          | maximum likelihood estimates                        |          | Lake Erie   |
|               | toruses<br>Uranus rings  |          | operations research                                 |          | Lake Huron  |
|               | vortex rings   |          | predictions   |          | Lake Michigan   |
|               | vertex imige   |          | reliability   |          | Lake Ontario  |
| rings (ı      | mathematics)   |          | strategy  |          | Lake Superior   |
|               | ∞ mathematics  | DIT one  | ·inaa   |          | meanders  |
| c             | ∞ rings  | RIT eng  | Radio frequency ion thrustors which                 |          | Mississippi Delta (LA)  |
| Pio Gr        | ando (North Amorica)   |          | e thrust by converting electric energy              |          | Missouri River Basin (US)   |
|               | ande (North America)<br>rivers   |          | eaction force by utilizing an electromag-           |          | rapids<br>reservoirs  |
| 00            | . Rio Grande (North America)   |          | ld. Used for radio frequency ion thrustor           |          | Rhone Delta (France)  |
| RT            | Gulf of Mexico   | engines  |   |          | river basins  |
|               | Mexico   | ŬF       | radio frequency ion thrustor engines                |          | shoals  |
|               | New Mexico   | GS       | engines   |          | shorelines  |
|               | texas  |          | . rocket engines                                    |          | sounds (topographic features)   |
|               |  |          | electric rocket engines                             |          | streams   |
| riomete<br>GS |  |          | electrostatic engines                               |          | surface water   |
| GS            | measuring instruments . radiation measuring instruments                          |          | ion engines<br>RIT engines                          |          | Susquehanna River Basin<br>(MD-NY-PA)                                 |
|               | riometers  | RT       | plasma engines                                      |          | tributaries   |
| RT            | atmospheric ionization   |          | placina originos                                    |          | valleys   |
|               | auroral absorption   | Ritz av  | eraging method                                      |          | Wabash River Basin (IL-IN-OH)   |
|               | ionograms  | GS       |   |          | wadis   |
|               | ionosondes   |          | . numerical analysis                                |          | water color   |
|               | ionospheric noise  |          | approximation                                       |          | water runoff  |
|               | ionospheric propagation  | DT       | Ritz averaging method                               |          | watersheds  |
| ripples       |  | KI °     | o methodology                                       |          | waterways   |
| GS            | elastic waves  | river ba | isins   |          | wharves   |
| 00            | . capillary waves  | GS       | landforms   | riveted  | ioints  |
|               | ripples  |          | . structural basins                                 |          | joints (junctions)  |
|               | surface waves  |          | river basins  |          | . riveted joints  |
|               | . capillary waves  |          | Atchafalaya River Basin (LA)                        | RT       | bolted joints   |
|               | . ripples  |          | Chena River Basin (AK)                              |          | butt joints   |
| RT            | gravity waves  |          | Columbia River Basin                                |          | lap joints  |
|               | interfacial tension  |          | (ID-OR-WA) Delaware River Basin (US)                |          | metal joints  |
|               | water waves<br>wind (meteorology)  |          | Feather River Basin (CA)                            |          | welded joints   |
|               | wind (motoorology)   |          | Missouri River Basin (US)                           | riveting | 1   |
| RISC p        | rocessors  |          | Susquehanna River Basin                             |          | ,<br>∞ joining  |
| (add          | led March 1995)  |          | (MD-NY-PA)  |          | rivets  |
|               | A type of computer processor de-   |          | Wabash River Basin (IL-IN-OH)                       |          | sealing   |
|               | to optimize total system performance by  |          | wadis   |          |   |
|               | fast decoding of the instructions most   | RT       |   | rivets   |   |
|               | nly employed in computer operations  |          | Chesapeake Bay (US)                                 | GS       | fasteners   |
|               | aracterized by: a simple instruction set e majority of instructions being single |          | Death Valley (CA) International Hydrological Decade | RT       | . rivets  |
|               | nstructions that are register-to-register  |          | lakes   | KI       | couplings<br>holders  |
|               | OAD and STORE commands being the   |          | meanders  |          | pins  |
|               | emory-reference instructions; very few   |          | Mississippi River (US)                              |          | riveting  |
|               | sing modes; hardwired control; instruc-  |          | Missouri River (US)                                 |          | · •   |
| tions w       | ith one or two sizes and with fields at  |          | rapids  | RL circ  |   |
|               | cations; and some degree of pipelining.  |          | ravines   |          | LR circuits   |
| UF            | reduced instruction set computing  |          | rivers  | GS       | circuits  |

| . RL circuits                                    | heating  | automata theory   |
|--|--|---|
| RLC circuits                                     | ignition   | automatic control   |
| RT coupling circuits                             | oxidation  | ∞ automation  |
| electrical resistance                            | reduction (chemistry)                              | computer aided design   |
| inductance                                       | sintering  | computer aided manufacturing  |
| LC circuits                                      | ROBIN balloons                                     | computer aided mapping  |
| network analysis<br>network synthesis            | GS expandable structures                           | computer vision<br>end effectors  |
| time constant                                    | . inflatable structures                            | inverse kinematics  |
| transconductance                                 | balloons   | man machine systems   |
| transconductance                                 | meteorological balloons                            | manipulators  |
| RL-10 engines                                    | ROBIN balloons                                     | multisensor fusion  |
| GS engines                                       | RT high altitude balloons                          | position sensing  |
| . rocket engines                                 | radiosondes  | robot arms  |
| liquid propellant rocket engines                 | rockoons   | robot control   |
| RL-10 engines                                    | skyhook balloons                                   | robot dynamics  |
| RL-10-A-1 engine                                 | sounding   | robot sensors   |
| RL-10-A-3 engine                                 |  | robots  |
| RT Atlas Centaur launch vehicle                  | robot arms   | task planning (robotics)  |
| Centaur project                                  | (added January 1990)                               | teleoperators   |
| cryogenic rocket propellants                     | UF arms (robotics)                                 | trajectory planning   |
| Saturn launch vehicles                           | GS robot arms                                      | unmanned ground vehicles  |
| DI 40 A 4 amains                                 | . Space Station Mobile Servicing                   | voice control   |
| RL-10-A-1 engine                                 | System  RT electroactive polymers                  |   |
| GS engines . rocket engines                      | RT electroactive polymers end effectors            | robots  |
| liquid propellant rocket engines                 | manipulators                                       | RT artificial intelligence  |
| hydrogen oxygen engines                          | robot dynamics                                     | automata theory   |
| RL-10-A-1 engine                                 | robotics   | bionics   |
| RL-10 engines                                    | robotics   | computer vision<br>end effectors  |
| RL-10 engines                                    | .000.0   | end effectors psycholinguistics   |
| or i ongino                                      | robot control                                      | robot arms  |
| RL-10-A-3 engine                                 | (added December 1990)                              | robot arms  |
| GS engines                                       | RT adaptive control                                | robot sensors   |
| . rocket engines                                 | ∞ control  | robotics  |
| liquid propellant rocket engines                 | control systems design                             | servomechanisms   |
| hydrogen oxygen engines                          | control theory                                     | Space Station Mobile Servicing  |
| RL-10-A-3 engine                                 | dynamic control                                    | System  |
| RL-10 engines                                    | feedback control                                   | tactile sensors (robotics)  |
| RL-10-A-3 engine                                 | inverse kinematics                                 | task planning (robotics)  |
| RT Saturn D launch vehicle                       | robot dynamics                                     | telerobotics  |
| DI C simulita                                    | robotics   | torque sensors (robotics)   |
| RLC circuits UF LRC circuits                     | robots   | voice control   |
| RLC networks                                     | unmanned ground vehicles                           |   |
| GS circuits                                      | robot dynamics                                     | robustness (mathematics)  |
| . RL circuits                                    | (added January 1990)                               | DEF Insensitivity of systems to uncontrolled  |
| RLC circuits                                     | UF robot motion                                    | perturbations and independent of changes in   |
| RT capacitance                                   | RT dynamic control                                 | environmental parameters as demonstrated  |
| capacitance switches                             | ∞ dynamics   | mathematically.   |
| electrical resistance                            | end effectors                                      | RT algorithms   |
| LC circuits                                      | gait   | control stability   |
| network analysis                                 | inverse kinematics                                 | control theory  |
| network synthesis                                | manipulators                                       | feedback control  |
| RC circuits                                      | robot arms   | linear systems<br>mathematical models   |
| time constant                                    | robot control                                      | mathematical models   |
| transconductance                                 | robotics   | Roche limit   |
|  | telerobotics                                       | GS range (extremes)   |
| RLC networks                                     | trajectory planning                                | . Roche limit   |
| USE RLC circuits                                 |  | RT celestial mechanics  |
|  | robot fingers                                      | dimensional stability   |
| roads  | USE end effectors                                  | gravitation   |
| GS roads   |  | natural satellites  |
| . highways<br>RT ∞ facilities                    | robot hands USE end effectors                      | orbits  |
| intersections                                    | OOL CHU CHECIOIS                                   | rotating bodies   |
| passageways                                      | robot motion                                       | two body problem  |
| passageways                                      | USE robot dynamics                                 |   |
| rapid transit systems                            | OOL TODOL Gynamics                                 | rock bolts  |
| site selection                                   | robot sensors                                      | GS fasteners  |
| streets  | (added January 1990)                               | . bolts   |
| transportation                                   | GS robot sensors                                   | rock bolts  |
| transportation networks                          | . tactile sensors (robotics)                       |   |
|  | . torque sensors (robotics)                        | rock intrusions   |
| roadway powered vehicles                         | RT acceleration measurement                        | DEF Vertical tabular bodies of rock that fill   |
| DEF Surface vehicles utilizing a combina-        | computer vision                                    | fissures in host rocks. Used for dikes (geology).   |
| tion of an electrical power source embedded in a | robotics   | UF dikes (geology)  |
| roadway and an inductive coupled power           | robots   | GS rock intrusions  |
| pickup.  | ∞ sensors  | . batholiths  |
| GS surface vehicles                              |  | RT contacts (geology)   |
| . roadway powered vehicles                       | robotics   | igneous rocks   |
| RT electric batteries                            | DEF A discipline that employs the principles       | inliers (landforms)   |
| electric motor vehicles                          | and techniques of mechanical and electrical        | regolith  |
| energy storage                                   | engineering and artificial intelligence to develop | rocks   |
| reaction   | programmable or self-controlled machines that      | veins (petrology)   |
| roasting   | often include sensory systems and a degree of      | and and and a   |
| UF calcination                                   | intelligence.                                      | rock mechanics  |
| RT baking desulfurizing                          | GS robotics . telerobotics                         | DEF The theoretical and applied science of the physical behavior of rocks, representing a |
| drying   | RT artificial intelligence                         | branch of mechanics concerned with the re-  |
| urying   | A armoral intelligence                             | branch of mechanics concerned with the re-  |
|  |  |   |

#### rocket catapults

sponse of rock to the force fields of its physical GS engines . . . M-55 engine environment. . rocket engines M-56 engine M-57 engine fracture mechanics . . booster rocket engines geology AJ-10 engine Nike booster rocket engines P-1 engine rocks . . . Algol engine soil mechanics SL-3 rocket engine . . . apogee boost motors structural properties (geology) Space Shuttle Boosters H-1 engine . . . . Advanced Solid Rocket Motor . . . LR-87-ÄJ-5 engine rock salt (STS) M-1 engine USE halites ... SYNCOM apogee engines M-55 engine ... TX-77 engine MA-2 engine rocket boosters TX-354 engine MA-3 engine USE booster rocket engines . . . X-248 engine MA-5 engine X-254 engine Nike booster rocket engines rocket catapults X-258 engines P-1 engine GS launchers X-258-B1 engine rocket engine 9KS-11000 . catapults X-259 engine . . . Space Shuttle Boosters rocket catapults ... XM-33 engine . . . Advanced Solid Rocket Motor . rocket launchers . . sustainer rocket engines (STS) .. rocket catapults . . turborocket engines . . ullage rocket engines . . . X-405 engine RT gun launchers . . ducted rocket engines . . upper stage rocket engines . . Vernier engines launch vehicles . . electric rocket engines launching sites . . . electrostatic engines missiles . . . control rockets . . . . ion engines ∞ rockets . . . SYNCOM apogee engines . . . . . cesium engines . . aerospike engines Hall thrusters rocket chambers . . rocket-based combined-cycle . . . . . mercury ion engines USE thrust chambers engines . RIT engines RT aircraft engines ... electrothermal engines rocket engine 9KS-11000 axial modes GS engines . . . . arc jet engines burning time . rocket engines . pulsed jet engines dump combustors . . booster rocket engines . resistojet engines ejectors . . . rocket engine 9KS-11000 . . . plasma engines exhaust nozzles . . . . magnetoplasmadynamic expendable stages (spacecraft) rocket engine cases thrusters heavy lift launch vehicles missile engine cases .... pulsed inductive thrusters hybrid propulsion rocket motor cases . . . . pulsed plasma thrusters ignition systems GS cases (containers) . . . . two stage plasma engines internal combustion engines rocket engine cases VASIMR (propulsion system) jet engines RT bonded joints HEUS rocket engines jet propulsion missile bodies hot water rocket engines laser propulsion orthotropic cylinders . . hybrid propellant rocket engines launch vehicles perforated shells . lithergol rocket engines Lunar Module Ascent Stage shells (structural forms) . . liquid propellant rocket engines magnetoplasmadynamics thrust chambers AJ-10 engine matter-antimatter propulsion F-1 rocket engine missile configurations rocket engine control H-1 engine missiles GS engine control hydrazine engines multistage rocket vehicles . rocket engine control hydrogen oxygen engines negative matter propulsion attitude control . J-2 engine post boost propulsion system automatic control . M-1 engine ∞ propellant actuated devices . . . . RL-10-A-1 engine ∞ control propellant explosions . RL-10-A-3 engine liquid air cycle engines directional control refractories flight control reusable launch vehicles LR-62-RM-2 engine fuel control RIFT (reactor in flight test) HEUS rocket engines LR-87-AJ-5 engine ∞ rockets LR-91-AJ-5 engine missile control single stage rocket vehicles remote control MA-2 engine solid rocket propellants MA-3 engine servocontrol spacecraft components spacecraft control MA-5 engine spacecraft propulsion oxygen-hydrocarbon rocket thrust control spacecraft structures engines RL-10 engines thrust rocket engine design thrust vector control .... RL-10-A-1 engine .... RL-10-A-3 engine GS engine design ∞ thrustors . rocket engine design thrust-weight ratio aerospike engines pulse detonation engines Space Shuttle Main Engine cold flow tests rocket exhaust ∞ design X-405 engine GS plumes engine tests XLR-99 engine rocket exhaust prefiring tests YLR-91-AJ-1 engine aerospike engines Rover project M-100 engine base heating . . microrocket engines combustion products . . . Orbit Maneuvering Engine (Space rocket engine noise exhaust clouds GS elastic waves Shuttle) exhaust gases . sound waves . . nozzleless rocket engines exhaust systems .. noise (sound) . . nuclear engine for rocket vehicles jet exhaust . . nuclear ramjet engines ... engine noise rocket firing ... rocket engine noise . . nuclear rocket engines firing (igniting)

rocket firing

retrofiring RT mufflers . . . nuclear lightbulb engines GS . . restartable rocket engines . . retrorocket engines rocket engines burning time Reaction engines that contain within . BE-3 engine themselves, or carry along with themselves, all . . reusable rocket engines detonation the substances necessary for their operation or . . solid propellant rocket engines liftoff (launching) for the consumption or combustion of their fuel, . . . Algol engine static firing not requiring of any outside substance and hence capable of operation in outer space. Used for interplanetary propulsion.

UF interplanetary propulsion apogee boost motors
ASROC engine test firing Hercules engine rocket flight

. . . M-46 engine

RT climbing flight

coasting flight ∞ flight flight paths horizontal flight hypersonic flight meteorological flight space flight suborbital flight supersonic flight trajectories transonic flight vertical flight

#### rocket launchers

Devices for launching rockets.

launchers

#### . rocket launchers

. rocket catapults

ground support equipment

gun launchers launch vehicles launching launching sites missile launchers ∞ rockets rockoons

sea launching

### rocket launching

blastoff

GS

# launching rocket launching

- . . liftoff (launching)
- . . lunar launch
- . orbital launching

RT Delta 4 Heavy launch vehicle exhaust clouds

launch vehicles launch windows launchers spacecraft launching

#### rocket linings

In solid rockets, the layers of inhibiters applied to the inner surface of the chamber holding the grain.

GS linings

### rocket linings

bonded joints engine parts refractories

rocket motor cases

USE rocket engine cases

#### rocket nose cones

GS cones

- . nose cones
- . rocket nose cones

forebodies

- . noses (forebodies)
- . . nose cones
- . rocket nose cones

RT ablative nose cones

#### rocket nozzles

DFF The exhaust nozzles of rockets.

GS rocket nozzles

. dual thrust nozzles

RT aerospike engines

annular nozzles

carbon-phenolic composites

conical nozzles

convergent-divergent nozzles

divergent nozzles

hypersonic nozzles magnetic nozzles

nozzle inserts nozzleless rocket engines

∞ nozzles plug nozzles

skirts spike nozzles

supersonic nozzles

#### rocket oxidizers

propellant oxidizers UF

GS oxidizers

. rocket oxidizers

.. FLOX

.. TAGN

cryogenic fluids Domino propellants high energy oxidizers hydrogen peroxide liquid oxidizers liquid oxygen nitrogen tetroxide nitronium perchlorate

**TATB** tetrafluorohydrazine

#### rocket planes

rocket vehicles

. rocket planes

. . X-1 aircraft

. . X-2 aircraft

. X-15 aircraft

aerospace planes

∞ aircraft

boostglide vehicles research aircraft

rocket propellant tanks USE propellant tanks

### rocket propellants

Agents used for consumption or combustion in rockets and from which the rockets derive their thrust, such as fuels, oxidizers, additives, catalysts or any compounds or mixtures of these. Used for multipropellants.

multipropellants

GS propellants

#### rocket propellants

- . . gaseous rocket propellants
- . . liquid rocket propellants
- . . . cryogenic rocket propellants
- gelled rocket propellants

  hypergolic rocket propellants
- monopropellants
- RP-1 rocket propellants
- slurry propellants . slush hydrogen
- aerozine
- nitramine propellants
- solid rocket propellants
- double base rocket propellants
- HMX
- . . . HTPB propellants
- metal propellants
- ..TAGN
- . TATB

ascent propulsion systems

auxiliary propulsion

hydrazines hydrocarbon fuels

missiles

propellant binders

propellant consumption

propellant storage

propulsion solid propellants

specific impulse

storable propellants

thrust

torpedo engines

#### rocket propelled sleds

surface vehicles GS

. sleds

. rocket propelled sleds

Javelin rocket vehicle

 $\infty$  test equipment

rocket sondes

USE sounding rockets

### rocket sounding

GS sounding

. rocket sounding acoustic sounding

atmospheric sounding

barium ion clouds in situ measurement

ionospheric sounding Judi-Dart rocket microwave sounding satellite sounding

sounding rockets Vertikal rockets

### rocket test facilities

GS test facilities

. rocket test facilities

engine tests test firing test ranges test stands

#### rocket thrust

DEF The thrust of a rocket engine usually expressed in pounds.

GS thrust

. rocket thrust

. . retrothrust high thrust

jet thrust

liftoff (launching)

low thrust

low thrust propulsion

microthrust

propulsion system performance specific impulse static thrust

thrust loads

thrust termination variable thrust

### rocket vehicles

DEF Vehicles propelled by rocket engines, used to place satellites in orbit, place missiles on target or carry passengers over rails as on rocket sleds.

### GS rocket vehicles

- Arcon rocket vehicle
- Blue Streak launch vehicle
- Blue Streak missile
- . Centaur launch vehicle
- Atlas Centaur launch vehicle
- Folding Fin aircraft rocket vehicle
- hovering rocket vehicles Meteor 1 rocket vehicle
- . multistage rocket vehicles
- . . Ablestar launch vehicle . . Antares rocket vehicle
- . . Argo rocket vehicles
- . . Astrobee rocket vehicles
- . Astrobee 1500 rocket vehicle
- . . Athena rocket vehicle
- . . Atlas launch vehicles
- . . . Atlas Able 5 launch vehicle
- Atlas Agena B launch vehicle
- . . . Atlas Agena launch vehicles
- . . . Atlas Centaur launch vehicle
- . . . Atlas SLV-3 launch vehicle
- . . Berenice rocket vehicle . . Black Knight rocket vehicle
- Blue Scout rocket vehicle . . Diamant launch vehicle
- Eldo launch vehicle
- . . EXOS sounding rocket
- . . Jaguar rocket vehicle
- . . Javelin rocket vehicle . . Juno launch vehicles
- ... Juno 1 launch vehicle
- Juno 2 launch vehicle
- . . Jupiter C rocket vehicle
- . . Kappa rocket vehicles Kappa 8 rocket vehicle
- Kappa 9 rocket vehicle
- . . Lambda rocket vehicles
- . . Little Joe 2 launch vehicle . . Nike rocket vehicles
- ... Nike-Apache rocket vehicle Nike-Cajun rocket vehicle
- . . . Nike-Hydac rocket vehicle
- Nike-Iroquois rocket vehicle . . . Nike-Javelin rocket vehicle
- Nike-Tomahawk rocket vehicle .. Nova launch vehicles
- Pegasus air-launched booster
- Phoenix sounding rocket RAM B launch vehicle
- . . Rubis rocket vehicle . . Saturn launch vehicles
- . . . Saturn 1 launch vehicles
- Saturn 1 SA-1 launch vehicle .... Saturn 1 SA-10 launch vehicle
  - 825

.... Saturn 1 SA-2 launch vehicle . . Petrel sounding rocket spaceborne photography Saturn 1 SA-3 launch vehicle . . Phoenix sounding rocket Skua rocket vehicles .... Saturn 1 SA-4 launch vehicle ∞ rockets Skylark rocket vehicle (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS Saturn 1 SA-5 launch vehicle . . Venus fly trap rocket vehicle . . . . Saturn 1 SA-6 launch vehicle LISTED BELOW)
air slew missiles Veronique rocket vehicles .... Saturn 1 SA-7 launch vehicle . . Vertikal rockets Saturn 1 SA-8 launch vehicle ammunition . WASP sounding rocket . . . . Saturn 1 SA-9 launch vehicle escape rockets . Standard Launch Vehicles heavy lift launch vehicles incendiary ammunition Saturn 1B launch vehicles . . Atlas SLV-3 launch vehicle ... Saturn 2 launch vehicles . . Standard Launch Vehicle 5 launch vehicles ... Saturn 5 launch vehicles . surface to surface rockets missiles Saturn D launch vehicle . . Honest John rocket vehicle nuclear ramjet engines nuclear rocket engines Scout launch vehicle . Little John rocket vehicle Skylark rocket vehicle . Thorad launch vehicles nuclear weapons Thor launch vehicles . . Thor Able rocket vehicle Patriot missile Thor Able rocket vehicle . . Thor Agena launch vehicle Petrel sounding rocket . Thor Agena launch vehicle . Thor Delta launch vehicle pyrotechnics . Thor Delta launch vehicle Titan Centaur launch vehicle . . Titan launch vehicles reentry acoustic sounding

∞ ballistic vehicles reentry vehicles . Titan 3 launch vehicle rocket catapults . . . Titan 4 launch vehicle ∞ flight vehicles HEUS rocket engines . Titan 4B launch vehicle rocket engines . . Ares 1 launch vehicle rocket launchers launch vehicles vanguard 2 launch vehicle rocket vehicles missile configurations Vega launch vehicle
 WASP sounding rocket
 Ares 1 first stage rockoons multiengine vehicles space flight ∞ rockets surface to air missiles Space Processing Applications surface to surface missiles Ares 1 upper stage Rocket surface to surface rockets . . Ares 5 cargo launch vehicle stage separation . payload assist module torpedoes test vehicles warheads . rocket planes Trailblazer 1 reentry vehicle weapon systems . . X-1 aircraft Trailblazer 2 reentry vehicle weapons delivery . X-2 aircraft ∞ vehicles X-15 aircraft ∞ winged vehicles rockoons . Saturn stages X-17 reentry vehicle High altitude sounding systems that DEF Saturn S-1 stage consist of small solid propellant research rockets carried aloft by large plastic balloons.

RT high altitude balloons Saturn S-1B stage Saturn S-1C stage rocket-based combined-cycle engines Saturn S-2 stage (added August 1999) Saturn S-4 stage meteorological balloons Launch vehicle engines that integrate ROBIN balloons Saturn S-4B stage a high specific impulse, low thrust-to-weight, airbreathing engine with a low-impulse, high rocket launchers . single stage rocket vehicles . . Agena rocket vehicles ∞ rockets thrust-to-weight rocket. The engines are often . . . Agena A rocket vehicle skyhook balloons defined by four modes of operation in a single-Agena B rocket vehicle stage-to-orbit configuration. In the first mode, . . . Agena C rocket vehicle rocks the engine functions as a rocket-driven ejector. . Agena D rocket vehicle Naturally formed aggregates of min-When the rocket engine is switched off, suberal matter occurring in large masses or frag-ments. Used for stones (rocks). Arcas rocket vehicles sonic combustion (mode 2) is present in the Black Brant sounding rockets ramjet mode. As the vehicle continues to accel-. . . Black Brant 1 sounding rocket stones (rocks) erate, supersonic combustion (mode 3) occurs Black Brant 2 sounding rocket rocks in the ramjet mode. Finally, as the edge of the . . . Black Brant 3 sounding rocket . andesite atmosphere is approached and the engine inlet Black Brant 4 sounding rocket
 Black Brant 5 sounding rocket
 Black Brant 5 sounding rocket ataxite is closed off, the rocket is reignited and the final . bedrock accent to orbit is undertaken in an all-rocket Black Knight rocket vehicle . . Baltic Shield (Europe) mode (mode 4). Dornier paraglider rocket vehicle . batholiths RBCC engines Genie rocket vehicle Honest John rocket vehicle . breccia GS engines gneiss . rocket engines . igneous rocks Hyla-Star rocket vehicle Little John rocket vehicle Loki rocket vehicle . . rocket-based combined-cycle engines air breathing boosters air breathing engines hybrid propulsion . . basalt Nomad launch vehicle . . diorite Veronique rocket vehicles . dunite Viking rocket vehicle integral rocket ramjets eclogite Zuni rocket vehicle ramjet engines . . felsite . sounding rockets gabbro single stage to orbit vehicles Aerobee rocket vehicle . . granite spacecraft propulsion Antares rocket vehicle . . obsidian supersonic combustion ramjet Apache rocket vehicle . . . moldavite engines Arcas rocket vehicles . . peridotite . Aries sounding rocket . . pumice Astrobee rocket vehicles . . rhyolite rocket-borne instruments . Astrobee 1500 rocket vehicle . . syenite RT controllers Black Brant sounding rockets flight test instruments . trachyte ... Black Brant 1 sounding rocket ∞ instruments . lunar rocks Black Brant 2 sounding rocket measuring instruments . . kreep ... Black Brant 3 sounding rocket . metamorphic rocks meteorological instruments Black Brant 4 sounding rocket . . quartzite position indicators . Black Brant 5 sounding rocket . regolith Cajun rocket vehicle . schist Dornier paraglider rocket vehicle rocket-borne photography . sedimentary rocks . . carbonaceous rocks **EXOS** sounding rocket GS imagery Jaguar rocket vehicle . photography . . . coal . . . . anthracite Judi-Dart rocket . rocket-borne photography aerial photography Kappa rocket vehicles . . . . lignite astronomical photography black and white photography Kappa 8 rocket vehicle . . solvent refined coal

photomapping

satellite-borne photography

. . limestone

. . shales

. . sandstones

. Kappa 9 rocket vehicle

. . Lambda rocket vehicles

. . Loki rocket vehicle

|         | . shatter cones              |           | wire   | rocket of   | or spacecraft about a longitudinal axis     |
|---------|------------------------------|-----------|--|-------------|---|
| RT      | aggregates                   |           |  |             | moments are considered positive where       |
|         | bauxite                      |           | x difference splitting scheme                                |             | nd to depress the starboard side of the     |
|         | boreholes                    | USE       | flux difference splitting                                    | body.       |   |
|         | clays                        | Poonta    | en satellite   | GS          | moments                                     |
|         | contacts (geology)           |           | ROSAT mission  |             | . stability derivatives                     |
|         | crossbedding (geology)       | OOL       | NOOAT IIIISSIOII   | RT          | rolling moments aerodynamic coefficients    |
|         | dirt                         | Rogallo   | o wings  | IXI         | lateral stability                           |
|         | dolomite (mineral)           |           | flexible wings   |             | moments of inertia                          |
|         | Earth resources              |           | folding structures   |             | pitching moments                            |
|         | effusives                    |           |  |             | roll  |
|         | enstatite                    | rogue p   |  |             | torque                                      |
|         | folds (geology)              | ,         | led April 2001)  |             | yawing moments                              |
|         | formations                   | USE       | hypothetical planets   |             |   |
|         | geology                      | roll      |  |             | olar arrays                                 |
|         | gypsum                       |           | The act of rolling; rotational or oscilla-                   | USE         | solar arrays                                |
|         | inliers (landforms)          |           | ovement of an aircraft or similar body                       | ROM de      | evices                                      |
|         | karst                        |           | a longitudinal axis through the body                         | USE         |   |
|         | landslides                   |           | oll for any degree of such rotation. The                     | 002         | roug only momerly governous                 |
|         | laterites                    |           | of this movement, i.e., the angle of roll.                   | Roman       | ia  |
|         | lava                         | GS        | attitude (inclination)                                       | UF          | Rumania                                     |
|         | ledges                       |           | . roll   | GS          | nations                                     |
|         | lithology                    | RT        | damping  |             | . Romania                                   |
|         | magma                        |           | lateral control  | RT          | Black Sea                                   |
|         | metamorphism (geology)       |           | lateral oscillation  |             | Central Europe                              |
|         | minerals                     |           | lateral stability  |             | Europe                                      |
|         | nunataks                     |           | pitch (inclination)  | Ronchi      | tost  |
|         | olivine                      |           | rollers  |             | An improvement on the Foucault knife        |
|         | outliers (landforms)         |           | ∞ rolling<br>rolling moments                                 |             | st for curved mirrors, in which the knife   |
|         | paleomagnetism               |           | rotation   |             | replaced with a transmission grating with   |
|         | petrography                  |           | sideslip   |             | 0 lines per centimeter, and the pinhole     |
|         | petrology                    |           | turning flight   |             | is replaced with a slit or a section of the |
|         | pyroxenes                    |           | wing rock  | same g      | ·   |
|         | quartz                       |           | yaw  |             | interferometry                              |
|         | reefs                        |           | ,  |             | . Ronchi test                               |
|         | rock intrusions              | roll con  | trol   | RT          | electromagnetic radiation                   |
|         | rock mechanics               | USE       | lateral control  |             | etalons                                     |
|         | serpentine                   |           |  |             | gratings (spectra)                          |
|         | soils                        | roll for  |  |             | interferometers                             |
|         | stratigraphy                 | GS        | forming techniques   |             | measuring instruments                       |
|         | tunneling (excavation)       | DT        | . roll forming   |             | optical measurement                         |
|         | veins (petrology)            | RT        | cold working<br>metal working                                | roofs       |   |
|         |                              |           | metal working  | RT          | buildings                                   |
|         |                              | roller b  | pearings   | 101         | sheaths                                     |
|         | ell hardness                 | GS        | bearings   |             | Shound                                      |
| GS      | mechanical properties        |           | . antifriction bearings                                      | room te     | emperature                                  |
|         | . hardness                   |           | roller bearings  | DEF         | A temperature in the range of 20 to 30      |
|         | . Rockwell hardness          |           | needle bearings  | C (68 to    | 85 F).                                      |
| RT      | microhardness                | RT        | ball bearings  | GS          | temperature                                 |
|         |                              |           | thrust bearings  |             | . room temperature                          |
|         |                              |           |  | RT          | ambient temperature                         |
| Rocky   | Mountains (North America)    | rollers   |  |             | operating temperature                       |
| GS      | landforms                    | RT        | conveyors  | rooms       |   |
|         | . mountains                  |           | cylindrical bodies<br>dispensers                             | rooms<br>GS | rooms                                       |
|         | Rocky Mountains (North       |           | distributors   | 00          | . clean rooms                               |
|         | America)                     |           | idlers   |             | . darkrooms                                 |
| RT      | Canada                       |           | platens  | RT          | compartments                                |
|         | United States                |           | pulleys  |             | enclosures                                  |
|         |                              |           | roll   | ۰           | ∘ lounges                                   |
|         |                              |           | tires  |             | -   |
| rodents | 5                            |           | vehicle wheels   |             | ean-square errors                           |
| GS      | animals                      |           | wheels   |             | In statistics, the square root of the       |
|         | . vertebrates                |           |  |             | tic mean of the squares of the deviations   |
|         | mammals                      | ∞ rolling |  |             | arious items from the arithmetic mean o     |
|         | rodents                      | SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | the who     |   |
|         | guinea pigs                  |           | LISTED BELOW)  | GS          | errors . root-mean-square errors            |
|         | hamsters                     | RT        | ausforming   | RT          | error analysis                              |
|         | mice                         |           | flattening   | IXI         | statistical analysis                        |
|         | jerboas                      |           | forging  |             | Statistical analysis                        |
|         | knockout mice                |           | leveling   | ∞ roots     |   |
|         | pocket mice                  |           | metal working  | SN          | (USE OF A MORE SPECIFIC TERM IS             |
|         | rabbits                      |           | roll   |             | RECOMMENDEDCONSULT THE TERMS                |
|         | rats                         | rolling   | contact loads  | RT          | LISTED BELOW) plant roots                   |
|         | squirrels                    | GS        | loads (forces)   | IXI         | radicals                                    |
|         | ground squirrels             | 30        | . contact loads  |             | roots of equations                          |
|         |                              |           | rolling contact loads  |             | wing roots                                  |
|         |                              |           | . dynamic loads  |             | <b>9</b>                                    |
| rods    |                              |           | . rolling contact loads                                      | roots o     | f equations                                 |
| GS      | rods                         | RT        | antifriction bearings  | UF          | zero crossings                              |
|         | . control rods               |           | stresses   | RT          | eigenvalues                                 |
| RT      | bars                         |           | structural design criteria                                   | 0           | o equations                                 |
|         | billets                      |           |  |             | existence theorems                          |
|         | directors (antenna elements) |           | moments  |             | matrices (mathematics)                      |
|         | structural members           | DEF       | Moments that tend to rotate an aircraft,                     |             | Newton methods                              |

#### Rorschach tests

nonlinear equations sisting of a rotor and stator. The control volume .... OH-5 helicopter which encloses the working fluid during the . . . . OH-6 helicopter polynomials thermodynamic cycle moves in a generally cir-. . . . OH-13 helicopter cular motion rather than a linear motion as in a OH-23 helicopter Rorschach tests . . . OH-58 helicopter GS psychological tests P-531 helicopter engines Rorschach tests . internal combustion engines . . . . QH-50 helicopter mental health .. rotary engines S-67 helicopter psychology . . Wankel engines SA-321 helicopter ∞ tests SA-330 helicopter aircraft engines automobile engines SH-3 helicopter ROSAT mission piston engines SH-4 helicopter Roentgen satellite Sikorsky Whirlwind helicopter GS artificial satellites rotary gyroscopes UH-1 helicopter ROSAT mission gyroscopes UH-2 helicopter observatories rotary gyroscopes UH-34 helicopter . astronomical observatories . . fluid rotor gyroscopes . . . . UH-60A helicopter . ROSAT mission gyroscope fluids UH-61A helicopter astronomical satellites gyroscopic stability . Westland Whirlwind helicopter international cooperation rotating bodies XV-9A aircraft spaceborne astronomy . . . rigid rotor helicopters rotary stability spaceborne telescopes . CH-3 helicopter .... F-28 helicopter .... XH-51 helicopter x ray astronomy whirl instability x ray sources GS dynamic characteristics x ray telescopes . dynamic stability S-58 helicopter . . motion stability S-61 helicopter Rosetta mission ... rotary stability tandem rotor helicopters (added October 1995) . . gyroscopic stability CH-46 helicopter CNSR stability CH-47 helicopter GS space missions . dynamic stability . H-25 helicopter . asteroid missions . . motion stability EH-101 helicopter . Rosetta mission ... rotary stability ... TH-55 helicopter RT comet nuclei . . . gyroscopic stability .. rotor systems research aircraft Comet Rendezvous Asteroid Flyby airfoil oscillations . . tilt rotor aircraft Mission directional stability ... V-22 aircraft ∞ missions flow stability . . XV-15 aircraft Near Earth Asteroid Rendezvous lateral stability RT ∞ aircraft Mission longitudinal stability autorotation rendezvous trajectories rotating bodies commercial aircraft sampling rotation lifting rotors rotor dynamics ∞ military aircraft rosette shapes passenger aircraft rotary wing aircraft GS shapes rotor stator interactions rosette shapes A heavier-than-air aircraft that deshort takeoff aircraft RT antenna radiation patterns pends prinicipally for its support in flight on the ∞ subsonic aircraft crystallites lift generated by one or more rotors. transport aircraft spherulites UF rotorcraft vertical takeoff aircraft strain gages V/STOL aircraft Weser aircraft . rotary wing aircraft Westland aircraft Roshko prediction . . autogyros . . . Avian 2/180 autogiro GS predictions Roshko prediction . . helicopters rotary wings RT bluff bodies . . . Alouette helicopters helicopter rotors UF laminar flow SA-330 helicopter hinged rotor blades Oseen approximation . . . . SE-3160 helicopter airfoils three dimensional flow Bell 214A helicopter . wings . . . compound helicopters . . rotary wings rosin . S-67 helicopter . . . circulation control rotors GS gums (substances) H-17 helicopter . . . lifting rotors heavy lift helicopters
. CH-62 helicopter rosin . bearingless rotors RT organic materials . . . rigid rotors light helicopters
. OH-4 helicopter . . . tilting rotors Ross ice shelf tip driven rotors GS regions OH-5 helicopter . . x wing rotors . polar regions OH-6 helicopter rotating bodies . . Antarctic regions . rotors OH-58 helicopter ... Ross ice shelf military helicopters . . rotary wings . remote regions AH-1G helicopter ... circulation control rotors . . Antarctic regions AH-1S helicopter . . . lifting rotors . Ross ice shelf AH-1W helicopter .... bearingless rotors Southern Hemisphere AH-63 helicopter . . . rigid rotors . Antarctic regions AH-64 helicopter . . . tilting rotors . Ross ice shelf BO-105 helicopter ... tip driven rotors McMurdo sound CH-3 helicopter . . x wing rotors CH-21 helicopter RT blade tips Rossby regimes CH-34 helicopter ∞ blades barotropic flow CH-46 helicopter blade-vortex interaction planetary waves . . . . CH-47 helicopter convertible fan-shaft engines CH-54 helicopter fan blades Rossby waves CH-62 helicopter flapping hinges USE planetary waves H-19 helicopter folding structures .... H-43 helicopter ground resonance Rossi X Ray Timing Explorer (added March 1999) H-53 helicopter harmonic control . . H-54 helicopter helicopter propeller drive USE X Ray Timing Explorer H-56 helicopter helicopter tail rotors . . . . H-60 Helicopter lift fans rotary drives propeller blades . HC-3 helicopter USE mechanical drives o rotor blades ... HH-43 helicopter . HH-65 helicopter rotor dynamics rotary engines A positive displacement engine con-. . . OH-4 helicopter DEF tail rotors

|          | Tilt Rotor Research Aircraft Program          |                | high gravity environments               |          | plasma flux measurement  |
|----------|---|----------------|---|----------|--|
|          | V-22 aircraft                                 |                | Langley complex coordinator             |          | theta pinch  |
|          | whirl towers                                  |                | spacecraft environments tumbling motion |          | toroidal plasmas<br>two fluid models                                       |
| rotating |   |                | turnoling motion                        |          | zeta pinch   |
| USE      | rotation                                      | rotating       | fluids                                  |          |  |
|          | hadiaa  | GS             | matter (physics)                        |          |  |
|          | podies rotating vehicles                      |                | . rotating matter                       | rotating |  |
| Oi       | solid rotation                                |                | rotating fluids                         | GS       | shafts (machine elements) . rotating shafts                                |
| GS       | rotating bodies                               |                | rotating fluids                         |          | turboshafts  |
|          | . lunar rotation                              | RT             | counter rotation                        |          |  |
|          | . rotating cylinders                          | ~              | fluids                                  |          |  |
|          | . rotating disks                              |                | Goertler instability                    |          | spheres  |
|          | . rotating spheres<br>. rotors                |                | Karman-Bodewadt flow                    | GS       | rotating bodies . rotating spheres   |
|          | compressor rotors                             |                | liquid sloshing planetary waves         |          | symmetrical bodies   |
|          | flywheels                                     |                | superrotation                           |          | . bodies of revolution   |
|          | impellers                                     |                | Taylor instability                      |          | spheres  |
|          | pump impellers                                |                | trapped vortices                        |          | rotating spheres   |
|          | rotary wings                                  |                | turbulent flow                          | RT       | equators   |
|          | circulation control rotors lifting rotors     |                | vortex sheets                           |          | spherical shells   |
|          | bearingless rotors                            |                | vortices                                |          |  |
|          | rigid rotors                                  |                | wing tip vortices                       | rotating | stalls   |
|          | tilting rotors                                | rotating       | generators                              | RT       | aerodynamic stalling   |
|          | tip driven rotors                             | UF             | dynamos                                 |          | boundary layer separation  |
|          | x wing rotors                                 | GS             | electric generators                     |          | compressor blades  |
|          | tail rotors                                   |                | . rotating generators                   |          | rotor blades   |
|          | helicopter tail rotors tip vanes              |                | amplidynes                              | ∞        | stalling<br>turbocompressors   |
|          | turbine wheels                                |                | dynamometers homopolar generators       |          | turbocompressors   |
|          | wave rotors                                   |                | turbogenerators                         |          |  |
| RT       | axes of rotation                              |                | ASTEC solar turboelectric               | rotating | vehicles   |
| 0        | bodies  |                | generator                               | USE      | rotating bodies  |
|          | planetary rotation                            | RT             | AC generators                           |          | vehicles   |
|          | Roche limit                                   |                | commutators                             |          |  |
|          | rotary gyroscopes rotary stability            |                | DC generators electrostatic generators  | rotation |  |
|          | rotation                                      | ~              | generators                              |          | The motion of a body about some  |
|          | spinning unguided rocket trajectory           |                | rotating electrical machines            |          | line wherein the particles of the body                                     |
|          |   |                | turbines                                | •        | e line or its extensions have a zero                                       |
|          | cylinders                                     |                | turbomachinery                          |          | relative to some reference. The line of                                    |
| GS       | rotating bodies . rotating cylinders          |                | liavido                                 |          | y particles is called the axis of rotation. rotating, whirl, and whirling. |
|          | symmetrical bodies                            | rotating<br>UF | liquid rotation                         |          | rotating   |
|          | . bodies of revolution                        | GS             | liquids                                 | O.       | whirl  |
|          | cylindrical bodies                            | 00             | . rotating liquids                      |          | whirling   |
|          | rotating cylinders                            |                | matter (physics)                        | GS       | gyration   |
| RT       | Couette flow                                  |                | . rotating matter                       |          | rotation   |
| 0        | o cylinders                                   |                | rotating fluids                         |          | autorotation   |
|          | cylindrical shells<br>elastohydrodynamics     | рт             | rotating liquids                        |          | corotation counter rotation  |
|          | Magnus effect                                 | RT             | Goertler instability planetary waves    |          | Earth rotation   |
|          | shafts (machine elements)                     |                | rotation                                |          | . galactic rotation  |
|          | viscometers                                   |                | trapped vortices                        |          | image rotation   |
|          | viscometry                                    |                | vortices                                |          | lunar rotation   |
| rotating | dieke   |                |   |          | molecular rotation   |
|          | disks (shapes)                                | rotating<br>GS |   |          | muon spin rotation planetary rotation                                      |
|          | . rotating disks                              | GS             | matter (physics) . rotating matter      |          | satellite rotation   |
|          | rotating bodies                               |                | . rotating fluids                       |          | stellar rotation   |
|          | rotating disks                                |                | rotating liquids                        |          | solar rotation   |
| RT       | accretion disks                               |                | rotating plasmas                        |          | clinorotation  |
|          | counter rotation Karman-Bodewadt flow         | RT             | degenerate matter                       | DT       | superrotation  |
|          | mistuning (turbomachinery)                    |                | rotation                                | RT       | angular acceleration angular velocity                                      |
|          | motaring (targernaerinery)                    |                | spin dynamics                           |          | axes of rotation   |
|          | g electrical machines                         | rotating       | mirrors                                 |          | circulation  |
| SN       | (USE OF A MORE SPECIFIC TERM IS               |                | mirrors                                 |          | coning motion  |
|          | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW) |                | . rotating mirrors                      |          | Coriolis effect  |
| RT       | armatures                                     | RT             | framing cameras                         |          | cross polarization   |
|          | commutators                                   |                | high speed cameras                      |          | Faraday effect   |
|          | electric hybrid vehicles electric motors      | rotating       | plasmas                                 | ~        | libration<br>motion  |
|          | induction motors                              |                | matter (physics)                        | -        | nutation   |
| 0        | machinery                                     |                | . rotating matter                       |          | pitch (inclination)  |
|          | rotating generators                           |                | rotating fluids                         |          | polarization (spin alignment)  |
|          | rotors  |                | rotating plasmas                        |          | polarization (waves)   |
|          | servomotors                                   |                | particles                               |          | precession   |
|          | stators                                       |                | . charged particles                     |          | revolving  |
| rotating | environments                                  |                | energetic particles plasmas (physics)   |          | roll rotary stability  |
| -        | environments                                  |                | rotating plasmas                        |          | rotating bodies  |
|          | . rotating environments                       |                | . corpuscular radiation                 |          | rotating liquids   |
| RT       | artificial gravity                            |                | energetic particles                     |          | rotating matter  |
|          | Barany chair                                  |                | plasmas (physics)                       |          | rotons   |
|          | clinorotation                                 |                | rotating plasmas                        |          | torque   |
|          | Coriolis offact                               | RT             | drift rate                              |          | vortex avoidance   |
|          | Coriolis effect                               |                | nonequilibrium plasmas                  |          | vortices   |

|           | yaw  | GS              | turbomachine blades   | DT       | rotor systems research aircraft                     |
|-----------|--|-----------------|---|----------|---|
| rotation  | al flow  | RT              | . rotor blades (turbomachinery) airfoils                            | KI 4     | ∞ aircraft<br>aircraft design                       |
|           | fluid flow   | KI              | blade tips  |          | helicopters   |
|           | vortices   | c               | ∘ blades  |          | NASA programs                                       |
|           |  |                 | compressor blades   | c        | ∞ systems   |
|           | nal spectra  |                 | compressor rotors   |          | _   |
|           | ed July 1989)<br>molecular properties                        |                 | impellers   | rotorcra |   |
| 03        | . molecular spectra  |                 | mistuning (turbomachinery)  | USE      | rotary wing aircraft                                |
|           | rotational spectra   | c               | <ul> <li>rotor blades</li> <li>rotor stator interactions</li> </ul> | rotordyi | namics  |
|           | spectra  |                 | rotors  |          | rotor dynamics                                      |
|           | molecular spectra  |                 | stator blades   |          |   |
|           | . rotational spectra   |                 | turbine blades  | rotors   |   |
| RT        | absorption spectra   |                 |   | UF       | rotor hubs  |
|           | line spectra molecular excitation                            |                 | ody interactions  | GS       | rotating bodies                                     |
|           | molecular excitation   |                 | Aerodynamic interactions between a                                  |          | . rotors compressor rotors                          |
|           | molecular spectroscopy                                       | RT              | er rotor and a body. aerodynamic characteristics                    |          | flywheels   |
|           | rotational states  |                 | aerodynamic configurations  |          | impellers   |
|           | vibrational spectra  |                 | helicopter design   |          | pump impellers                                      |
|           |  |                 | rotor aerodynamics  |          | rotary wings  |
|           | nal states<br>led December 1993)                             |                 | rotor stator interactions   |          | circulation control rotors                          |
| SN        | (LIMITED TO MOLECULAR ENERGY                                 |                 | -1  |          | lifting rotors                                      |
| 014       | LEVELS - EXCLUDES ROTATIONAL                                 | rotor di<br>USE | sks<br>turbine wheels   |          | bearingless rotors<br>rigid rotors                  |
|           | DYNAMICS OF VEHICLES OR OTHER BODIES)                        | USE             | turbine wheels  |          | tilting rotors                                      |
| GS        | level (quantity)   | rotor d         | ynamics   |          | tip driven rotors                                   |
|           | . energy levels  |                 | ed July 1989)   |          | x wing rotors                                       |
|           | molecular energy levels                                      |                 | rotordynamics   |          | tail rotors   |
|           | rotational states  | RT              | dynamic characteristics   |          | helicopter tail rotors                              |
|           | molecular properties   |                 | dynamic response  |          | tip vanes   |
|           | . molecular energy levels                                    |                 | dynamic stability   |          | turbine wheels                                      |
|           | rotational states  | c               | ∘ dynamics  |          | wave rotors   |
| RT        | molecular excitation   |                 | rotary stability  | RT       | airfoils  |
|           | rotational spectra   |                 | rotary wings  |          | armatures   |
| Rotifera  | a  |                 | rotor aerodynamics<br>rotors  |          | centrifugal compressors<br>heavy lift airships      |
|           | A phylum of multicellular animals in the                     |                 | structural vibration  |          | mistuning (turbomachinery)                          |
| subking   | dom Eumatazoa.   |                 | turbomachinery  | c        | ∞ rotating electrical machines                      |
| GS        | animals  |                 | tarzernaerm.ery   |          | rotor aerodynamics                                  |
|           | . invertebrates  | rotor hι        | ıbs   |          | rotor blades (turbomachinery)                       |
|           | Rotifera   | USE             | hubs  |          | rotor dynamics                                      |
|           | microorganisms   |                 | rotors  |          | stators   |
| DT        | Rotifera   |                 |   |          | turbines  |
| RT        | worms  | rotor li        |   |          | turbocompressors                                    |
| rotochu   | ites   | GS              | aerodynamic characteristics   |          | turbomachine blades                                 |
| GS        | parachutes   |                 | . lift<br>rotor lift  |          | turboshafts   |
|           | rotochutes   |                 | aerodynamic forces  |          | wheels<br>wings                                     |
| RT        | autorotation   |                 | . lift  |          | willigs   |
|           |  |                 | rotor lift  | roughn   | ess   |
| rotons    |  |                 | dynamic characteristics   |          | roughness   |
| GS        | fluid mechanics  |                 | . lift  |          | . sea roughness                                     |
|           | . fluid dynamics   |                 | rotor lift  |          | . surface roughness                                 |
| RT        | rotons   | RT              | distribution (property)   | RT       | coarseness  |
| KI        | activation energy excitation                                 |                 |   |          | contours  |
|           | photons  | rotor s         |   |          | flatness  |
|           | rotation   | GS              | rates (per time) . rotor speed                                      |          | mechanical properties                               |
|           |  |                 | velocity  |          | motion stability profilometers                      |
| rotor a   | erodynamics  |                 | . rotor speed   |          | smoothing   |
| GS        | fluid mechanics  | RT              | angular velocity  |          | surface properties                                  |
|           | . fluid dynamics   |                 | high speed  |          | canace properties                                   |
|           | gas dynamics   |                 | labyrinth seals   | round t  | trip trajectories                                   |
|           | aerodynamics   |                 | tip speed   | GS       | trajectories  |
| RT        | rotor aerodynamics Ffowcs Williams-Hawkings equation         |                 |   |          | round trip trajectories                             |
| KI        | flapping   |                 | ator interactions   |          | circumlunar trajectories                            |
|           | flapping hinges  |                 | ed June 1995)   | RT       | Earth-Moon trajectories                             |
|           | ground resonance   |                 | Aerodynamic interaction between a ro-<br>a stator.                  |          | interorbital trajectories                           |
|           | rotor body interactions                                      | RT              | a stator. aerodynamic interference                                  |          | interplanetary flight                               |
|           | rotor dynamics   | IXI             | interactional aerodynamics  |          | interplanetary trajectories moon-Earth trajectories |
|           | rotor stator interactions                                    |                 | rotary wing aircraft  |          | orbital mechanics                                   |
|           | rotors   |                 | rotor aerodynamics  |          | spacecraft trajectories                             |
|           | whirl towers   |                 | rotor blades (turbomachinery)                                       |          | swingby technique                                   |
|           | ladas  |                 | rotor body interactions   |          |   |
| ∞ rotor b |  |                 | stator blades   | Rouse    |   |
| SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |                 | structural stability  | RT «     | ∞ belts   |
|           | LISTED BELOW)  |                 | supersonic turbines   |          | cones (volcanoes)                                   |
| RT        | helicopter tail rotors                                       |                 | surface noise interactions  |          | earthquakes   |
|           | mistuning (turbomachinery)                                   |                 | tilt rotor aircraft   |          | geological faults<br>Mars volcanoes                 |
|           | rotary wings rotating stalls                                 |                 | turbine blades  |          | seismology  |
|           | rotating stalls rotor blades (turbomachinery)                | rotor s         | ystems research aircraft  |          | tremors   |
|           | tail rotors  | GS              | research vehicles   |          | volcanoes   |
|           | x wing rotors  |                 | . research aircraft   |          | volcanology   |
|           |  |                 | rotor systems research aircraft                                     |          |   |
| rotor b   | lades (turbomachinery)                                       |                 | V/STOL aircraft   | routes   |   |
| UF        | impeller blades  |                 | . rotary wing aircraft  | RT       | air traffic control                                 |

. rotary wing aircraft

flight plans .... RTV-40 rubber (trademark) ... rubidium isotopes ∞ paths . . . . rubidium 86 RTV-60 rubber (trademark) site selection metals transportation GS elastomers . alkali metals . rubber . . rubidium . . synthetic rubbers ... rubidium isotopes ∞ routines (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . . silicone rubber . . . . rubidium 86 SN . . . . RTV-60 rubber (trademark) . . . vulcanized elastomers Rubis rocket vehicle computer programs .... RTV-60 rubber (trademark) rocket vehicles GS computer systems programs . multistage rocket vehicles data conversion routines Ruanda-Urundi Rubis rocket vehicle disk operating system (DOS) USE Burundi solid propellant rocket engines input/output routines Rwanda merging routines ruby operating systems (computers) rubber ŘT aluminum oxides user manuals (computer programs) A material that is capable of recovering DEF crystals from large deformations quickly and forcibly, and Rover project can be, or already is modified to a state in which ruby lasers GS programs it is essentially insoluble (but can swell) in boiling GS electronic equipment . NASA programs solvent such as benzene, methyl ethyl ketone, . solid state devices . . NASA space programs and ethanol-toluene azeotrope. . . solid state lasers ... Rover project GS elastomers . . ruby lasers . projects . rubber stimulated emission devices .. Rover project . . synthetic rubbers . lasers . space programs Adiprene (trademark) . . solid state lasers . . NASA space programs ... Buna (trademark) . . ruby lasers Rover project silicone rubber pulsed lasers KIWI reactors .... RTV-40 rubber (trademark) Q switched lasers nuclear engine for rocket vehicles . RTV-60 rubber (trademark) Verneuil process nuclear propulsion Viton rubber (trademark) rudders vulcanized elastomers nuclear reactors RIFT (reactor in flight test) . . . . RTV-40 rubber (trademark) GS control surfaces rocket engine design . rudders . RTV-60 rubber (trademark) spacecraft propulsion . . aerial rudders . . . chloroprene resins guayule . marine rudders RT gums (substances) RT airfoils roving vehicles fins extraterrestrial roving vehicles latex pintles organic materials GS surface vehicles stabilizers (fluid dynamics) polyisoprenes . roving vehicles sweptback tail surfaces . . lunar roving vehicles tabs (control surfaces) rubber coatings . . . Lunokhod lunar roving vehicles GS coatings tail assemblies . manned lunar surface vehicles rubber coatings tail surfaces . . Mars roving vehicles RT trapezoidal tail surfaces . . Marsokhod Mars roving vehicles paints protective coatings Mars sample return missions ruggedness planetary landing RT durability rubidium planetary surfaces GS chemical elements ∞ high resistance research vehicles . alkali metals mechanical properties toroidal wheels . . rubidium ∞ riaidity unmanned ground vehicles . . . rubidium isotopes ∞ vehicles .... rubidium 86 metals ruler method RT ∞ methodology ∞ rovings . alkali metals (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN . . rubidium rules . . . rubidium isotopes GS rules composite materials . . . . rubidium 86 . flight rules . . instrument flight rules webs (sheets) . . visual flight rules . Palmgren-Miner rule varns rubidium 86 GS chemical elements . alkali metals phase rule Rowland circles . . rubidium selection rules (nuclear physics) gratings (spectra) . . . rubidium isotopes optical filters sum rules . . . . rubidium 86 Whitham rule . nuclides RP-1 rocket propellants RT laws propellants . . isotopes patent policy GS . rocket propellants . . . radioactive isotopes policies . . . . rubidium 86 procurement policy . . liquid rocket propellants RP-1 rocket propellants ... rubidium isotopes regulations JP-4 jet fuel . . . rubidium 86 sea law RT metals kerosene . alkali metals Rumania . . rubidium USE Romania RPV . . . rubidium isotopes USE remotely piloted vehicles . . . . rubidium 86 run time (computers) computer programming RS codes rubidium compounds computers USE Reed-Solomon codes RT ∞ alkali metal compounds time sharing ∞ chemical compounds RTM (composite materials) Runge-Kutta method ∞ metal compounds USE resin transfer molding DEF A method for the numerical solution of rubidium isotopes an ordinary differential equation. GS analysis (mathematics) RTV-40 rubber (trademark) GS chemical elements . numerical analysis GS elastomers . alkali metals . rubber . . rubidium . . numerical integration ... rubidium isotopes . . synthetic rubbers . . . Runge-Kutta method

. . . . rubidium 86

. nuclides

. . isotopes

. . . silicone rubber

. . . vulcanized elastomers

. RTV-40 rubber (trademark)

. real variables

. . measure and integration

. . . numerical integration

| Runge-Kutta method  | disrupting                                      | coatings  |
|---|---|---|
| RT ∞ methodology  | failure<br>fracture mechanics                   | corrosion resistance<br>degradation               |
| running   | metal fatigue                                   | desensitizing                                     |
| GS locomotion   | self sealing                                    | deterioration                                     |
| . running   | structural strain                               | hot corrosion                                     |
| RT gait   | tearing   | metal-water reactions                             |
| physical exercise<br>walking  | rural areas                                     | oxidation resistance passivity                    |
| Walking   | RT agriculture                                  | scale (corrosion)                                 |
| runoffs   | farmlands                                       | weathering  |
| USE drainage  | grasslands                                      | Jan 1 g   |
| runway alianment  | land  |   |
| runway alignment SN (ALIGNMENT WITH RUNWAYSNOT  | megalopolises                                   | rusts (botany)                                    |
| ÀLIGNMENT OF RUNWAYS)   | rangelands                                      | USE rust fungi                                    |
| RT aircraft landing   | regional planning<br>residential areas          |   |
| takeoff runs  | suburban areas                                  | ruthenium   |
| runway conditions   | wilderness                                      | GS chemical elements                              |
| GS conditions   |   | . ruthenium                                       |
| . runway conditions   | rural land use                                  | ruthenium isotopes                                |
| RT aviation meteorology   | GS land use<br>. rural land use                 | metals  |
| ice   | RT agriculture                                  | . noble metals                                    |
| runway incursions<br>runways  | conservation                                    | <b>ruthenium</b><br>ruthenium isotopes            |
| slush   | ∞ development                                   | . transition metals                               |
| surface roughness   | Earth resources                                 | ruthenium   |
| water   | farmlands                                       | ruthenium isotopes                                |
| weather   | grasslands                                      | ·   |
|   | grazing Crost Blains Corridor (North America)   |   |
| runway incursions<br>(added May 2006)   | Great Plains Corridor (North America) land      | ruthenium 106                                     |
| DEF Any occurrence at an airport involving  | land management                                 | USE ruthenium isotopes                            |
| an aircraft, vehicle, person or object on the   | orchards  |   |
| ground, that creates a collision hazard or results  | rangelands                                      | ruthenium alloys                                  |
| in the loss of separation with an aircraft taking   | regional planning                               | GS alloys   |
| off, intending to take off or intending to land.  | sites   | . ruthenium alloys                                |
| GS hazards  | Russia  |   |
| . aircraft hazards<br><b>runway incursions</b>  | USE Russian Federation                          |   |
| RT aerospace safety   | OCE RESOLUTI GUSTALION                          | ruthenium compounds                               |
| aircraft accidents  | Russian Federation                              | RT ∞ chemical compounds                           |
| aircraft safety   | (added August 1993)                             | ∞ metal compounds<br>transition metals            |
| airfield surface movements  | UF Russia                                       | transition metals                                 |
| airport surface detection equipment   | GS nations . Russian Federation                 |   |
| collision avoidance   | RT Asia   | ruthenium isotopes                                |
| collisions<br>crashes   | Automatic Universal Orbiting Stations           | UF ruthenium 106                                  |
| flight safety   | Europe  | GS chemical elements                              |
| runway conditions   | Moscow  | . nuclides  |
| runways   | Russian Space Program                           | isotopes<br>ruthenium isotopes                    |
| situational awareness   | Bussian Casas Bassas                            | . ruthenium                                       |
| Police  | Russian Space Program<br>(added September 1994) | ruthenium isotopes                                |
| runway lights   | GS programs                                     | metals  |
| GS landing aids<br>. airport lights   | . space programs                                | . noble metals                                    |
| runway lights   | Russian Space Program                           | ruthenium   |
| lighting equipment  | RT Commonwealth of Independent                  | ruthenium isotopes                                |
| . luminaires  | States  | . transition metals<br>ruthenium                  |
| airport lights  | cosmonauts                                      | ruthenium isotopes                                |
| runway lights   | Energiya launch vehicle<br>GLONASS              | ratheman foctopes                                 |
| RT approach control   | Granat satellite                                |   |
| ∞ flares<br>∞ markers   | international cooperation                       | rutherfordium                                     |
| runways   | Kvant modules                                   | (added November 1994)                             |
| searchlights  | Proton launch vehicle                           | GS chemical elements                              |
| visual control  | Russian Federation                              | . rutherfordium                                   |
|   | Soviet satellites                               | RT dubnium<br>∞ elements                          |
| runways   | Soviet spacecraft                               | ∞ elements  |
| DEF A defined rectangular area on a land airport prepared for the landing and takeoff run | U.S.S.R. space program Vertikal rockets         |   |
| of aircraft along its length.   | vortikai rockets                                | rutile  |
| RT airfield surface movements   | rust fungi                                      | DEF A mineral form of titanium oxide (TiO2        |
| airports  | UF rusts (botany)                               | (tetragonal crystallization), but usually produce |
| landing   | GS plants (botany)                              | chemically for use in ceramics and other prod     |
| landing aids  | . fungi   | ucts.   |
| landing mats  | <b>rust fungi</b><br>RT blight                  | GS chalcogenides<br>. oxides                      |
| landing sites pavements   | ∞ mold  | metal oxides                                      |
| runway conditions   | parasitic diseases                              | titanium oxides                                   |
| runway incursions   | plant diseases                                  | rutile  |
| runway lights   |   | titanium compounds                                |
| ∞ strip   | rusting   | . titanium oxides                                 |
| takeoff   | GS chemical reactions                           | <b>rutile</b><br>RT anatase                       |
| taxiing   | . oxidation<br><b>rusting</b>                   | RT anatase coesite                                |
| rupturing   | corrosion                                       | cross relaxation                                  |
| RT ∞ blisters   | . rusting                                       | minerals  |
| bursts  | RT atmospheric effects                          | pigments  |
| cracking (fracturing)   | chemical attack                                 | stishovite  |

### Rydberg series

Rwanda UF Ruanda-Urundi GS nations

Rwanda

RT Africa Burundi

RXTE (satellite) (added March 1999) USE X Ray Timing Explorer

Ryan aircraft
GS Ryan aircraft

. Firebee 2 target drone aircraft

. X-13 aircraft

. XC-142 aircraft

. XV-5 aircraft . XV-8A aircraft

RT ∞ aircraft

Rydberg series
GS spectra
. radiation spectra
. . electromagnetic spectra

... line spectra
... Rydberg series
RT absorption spectra
atomic spectra
electron transitions emission spectra

H lines hydrogen

| S band   | ∞ military aircraft                                   | . SA-321 helicopter   |
|--|---|---|
| USE superhigh frequencies  | minary airorait                                       | V/STOL aircraft   |
| ultrahigh frequencies  | S-3 satellite   | . rotary wing aircraft  |
|  | USE Explorer 12 satellite                             | helicopters   |
| S curves   | S-6 satellite   | military helicopters<br>SA-321 helicopter                             |
| GS geometry . curves (geometry)  | USE Explorer 17 satellite                             | RT ∞ aircraft   |
| S curves   | S-16 satellite  | OA 220 halfaantan   |
| Gompertz curves  | USE OSO-1   | SA-330 helicopter  UF Sud Aviation SA-330 helicopter                  |
| . Euclidean geometry   | · · · · · · · · · · · · · · · · · ·                   | GS Sud Aviation aircraft  |
| analytic geometry<br><b>S curves</b>   | S-17 satellite<br>USE <b>OSO-2</b>                    | . Alouette helicopters  |
| Gompertz curves  | 03L <b>030-2</b>                                      | SA-330 helicopter   |
| •  | S-18 satellite  | transport aircraft . SA-330 helicopter                                |
| S glass  | USE OAO   | V/STOL aircraft   |
| GS glass   | S-27 satellite  | . rotary wing aircraft  |
| . E glass  | USE Alouette 1 satellite                              | helicopters<br>Alouette helicopters                                   |
| <b>S glass</b><br>RT composite materials   | S-49 satellite  | SA-330 helicopter   |
| glass fiber reinforced plastics  | USE <b>OGO-A</b>                                      | military helicopters  |
| glass fibers   |   | SA-330 helicopter   |
| silicon dioxide  | S-50 satellite  | RT ∞ aircraft   |
|  | USE <b>OGO-C</b>                                      | Saab 37 aircraft  |
| S matrix theory  | S-51 satellite  | GS attack aircraft  |
| UF scattering matrix RT operators (mathematics)  | USE Ariel 1 satellite                                 | . fighter aircraft  |
| scattering cross sections  | S-52 satellite  | Saab 37 aircraft<br>jet aircraft                                      |
| ∞ theories   | USE Ariel 2 satellite                                 | . turbofan aircraft   |
|  | 7 THOI 2 GALONIA                                      | Saab 37 aircraft  |
| S stars  | S-57 satellite  | Saab aircraft   |
| GS celestial bodies  | USE OSO-C   | . <b>Saab 37 aircraft</b><br>supersonic aircraft                      |
| . stars<br>late stars  | S-58 helicopter                                       | . Saab 37 aircraft  |
| cool stars   | UF Sikorsky S-58 helicopter                           | RT ∞ aircraft   |
| S stars  | GS Sikorsky aircraft                                  | canard configurations   |
| RT asymptotic giant branch stars   | . <b>S-58 helicopter</b><br>transport aircraft        | Harrier aircraft  |
| giant stars<br>M stars   | . S-58 helicopter                                     | Saab 105 aircraft   |
| Mira variables   | V/STOL aircraft                                       | GS jet aircraft   |
| red giant stars  | . rotary wing aircraft                                | . turbofan aircraft<br><b>Saab 105 aircraft</b>                       |
|  | helicopters<br><b>S-58 helicopter</b>                 | light aircraft  |
| S waves  | RT CH-34 helicopter                                   | Saab 105 aircraft   |
| DEF Waves in an elastic media which cause an element of the medium to change its shape | UH-34 helicopter                                      | monoplanes  |
| without a change in volume. Mathematically, S  | S-61 helicopter                                       | . <b>Saab 105 aircraft</b><br>Saab aircraft                           |
| waves are ones whose velocity field has zero   | UF Sikorsky S-61 helicopter                           | . Saab 105 aircraft   |
| divergence. Used for secondary waves, shear  | GS Sikorsky aircraft                                  | utility aircraft  |
| disturbances, and shear waves.  UF secondary waves                                     | S-61 helicopter                                       | . Saab 105 aircraft   |
| shear disturbances   | transport aircraft . <b>S-61 helicopter</b>           | RT ∞ aircraft<br>passenger aircraft                                   |
| shear waves  | V/STOL aircraft                                       | paccongor anoran  |
| GS elastic waves   | . rotary wing aircraft                                | Saab aircraft   |
| . <b>S waves</b><br>SH waves   | . helicopters   | GS Saab aircraft<br>. Saab 37 aircraft                                |
| RT crustal fractures   | <b>S-61 helicopter</b><br>RT ∞ aircraft               | . Saab 37 aircraft  |
| dilatational waves   | antisubmarine warfare aircraft                        | RT ∞ aircraft   |
| P waves  | CH-3 helicopter                                       | Out office and the  |
| polarized elastic waves<br>Rayleigh waves  | SH-3 helicopter                                       | Sabatier reaction  GS chemical reactions                              |
| seismic waves  | SH-4 helicopter<br>water takeoff and landing aircraft | . Sabatier reaction   |
| surface waves  | water takeon and landing alloran                      | RT photographic film  |
| transverse waves   | S-64 helicopter                                       | Sabot projectiles   |
| 0.0 1.1 1.1 1.1  | USE CH-54 helicopter                                  | DEF Projectiles having devices fitted                                 |
| S-2 aircraft UF US-2A aircraft   | S-66 satellite  | around or in back of the projectiles in gun barrels                   |
| GS antisubmarine warfare aircraft  | USE Beacon Explorer A                                 | or launching tubes to support or protect the                          |
| . S-2 aircraft   | C C7 belicenter                                       | projectiles or to prevent the escape of gas                           |
| monoplanes   | S-67 helicopter UF Sikorsky S-67 helicopter           | ahead of it. The sabot separates from the projectile after launching. |
| . <b>S-2 aircraft</b><br>utility aircraft  | GS Sikorsky aircraft                                  | GS projectiles  |
| . S-2 aircraft   | S-67 helicopter                                       | . Sabot projectiles   |
| RT ∞ aircraft  | V/STOL aircraft                                       | RT artillery<br>fragmentation   |
|  | . rotary wing aircraft<br>helicopters                 | gun launchers   |
| S-3 aircraft   | compound helicopters                                  | guns (ordnance)   |
| UF ES-3A aircraft  | S-67 helicopter                                       | anhata sa   |
| KS-3 aircraft GS antisubmarine warfare aircraft  | military helicopters                                  | sabotage  DEF Deliberate destructive action that may                  |
| . S-3 aircraft   | <b>S-67 helicopter</b><br>RT ∞ aircraft               | be directed against property, processes, sys-                         |
| jet aircraft   | · · · · <del>- · · · · · · · · · · · · · · ·</del>    | tems, organizations, governments, or people                           |
| . S-3 aircraft   | S-74 satellite  | and that is intended to prevent a process, un-                        |
| Lockheed aircraft . <b>S-3 aircraft</b>  | USE Explorer 18 satellite                             | dermine a group, or interfere with progress towards a goal.           |
| monoplanes   | SA-321 helicopter                                     | RT accidents  |
| S-3 aircraft   | UF Sud Aviation SA-321 helicopter                     | air defense   |
| RT ∞ aircraft  | GS Sud Aviation aircraft                              | damage  |

|                     | deactivation                       | . aircraft safety          | fail-safe systems                                  |
|---------------------|------------------------------------|----------------------------|--|
|                     | disasters                          | . flight safety            | fire prevention                                    |
|                     | hazards                            | . industrial safety        | guards (shields)                                   |
|                     |                                    |                            |  |
|                     | injuries                           | range safety               | hazards  |
|                     | prevention                         | . reactor safety           | human factors engineering                          |
|                     | safety                             | RT accident prevention     | production management                              |
|                     | space law                          | accidents                  | warning systems                                    |
|                     | terrorism                          | air bag restraint devices  |  |
|                     |                                    |                            |  |
|                     | wreckage                           | crashes                    | SAGE air defense system                            |
|                     |                                    | ∞ detectors                | GS air defense                                     |
| Sabre a             | ircraft                            | emergency life sustainir   | ng systems . SAGE air defense system               |
| USE                 | F-86 aircraft                      | energy policy              | RT ∞ systems                                       |
| 002                 | 1 oo unorun                        |                            | TCT ** Systems                                     |
| Cabralin            | or circust                         | explosions                 | 0.4.00   |
|                     | er aircraft                        | fire prevention            | SAGE satellite                                     |
| USE                 | T-39 aircraft                      | fireproofing               | DEF Spacecraft for the study of strato-            |
|                     |                                    | fires                      | spheric aerosols and gases. Used for Strato-       |
| Saccadi             | c eye movements                    | hazards                    | spheric Aerosol & Gas Experiment.                  |
|                     | eye movements                      |                            |  |
| -                   | •                                  | prevention                 | UF Stratospheric Aerosol & Gas                     |
|                     | Saccadic eye movements             | protection                 | Experiment   |
|                     | fovea                              | sabotage                   | GS artificial satellites                           |
| 00                  | motion                             | ∞ storage                  | . SAGE satellite                                   |
|                     | visual fields                      | •                          |  |
|                     | rioddi iioldo                      | vortex avoidance           |  |
| ooobor              | idos                               | warning                    | ozone  |
| sacchari            |                                    | warning systems            |  |
| USE                 | carbohydrates                      |                            | Saginaw Bay (MI)                                   |
|                     |                                    | safety devices             | GS bays (topographic features)                     |
| sacchar             | omyces                             | •                          |  |
|                     | plants (botany)                    | GS safety devices          | . Saginaw Bay (MI)                                 |
| 00                  |                                    | . abort apparatus          | RT inlets (topography)                             |
|                     | . fungi                            | . air bag restraint device | es Lake Huron                                      |
|                     | saccharomyces                      |                            | Michigan   |
|                     | -                                  | . arresting gear           | 3  |
| Sacram              | ento Valley (CA)                   | . ejection seats           | river basins                                       |
|                     |                                    | flying ejection seats      |  |
| GS                  | valleys                            | . escape capsules          | Sagittarius constellation                          |
|                     | . Sacramento Valley (CA)           |                            | GS constellations                                  |
| RT                  | California                         | . escape rockets           |  |
|                     | river basins                       | . helmets                  | . Sagittarius constellation                        |
|                     | TIVOT EGOTIO                       | . seat belts               |  |
|                     | !                                  | RT accident prevention     | Sagnac effect                                      |
| saddle <sub>l</sub> |                                    |                            | DEF A phase shift (and consequent mea-             |
| GS                  | saddle points                      | accident proneness         |  |
|                     | . saddle points (game theory)      | accidents                  | surable rotation rate) caused by nonreciprocity    |
| RT                  | curve fitting                      | aircraft safety            | (different optical path lengths) of two counter-   |
|                     |                                    | ambulances                 | propagating light waves traveling in the same      |
|                     | game theory                        | antiskid devices           | coil in a fiber optic gyro or ring interferometer. |
|                     | minimax technique                  |                            | GS phase shift                                     |
|                     |                                    | automobile accidents       |  |
| saddle i            | points (game theory)               | ∞ barriers                 | . Sagnac effect                                    |
|                     | game theory                        | chemical defense           | RT angular velocity                                |
| 00                  |                                    | deflectors                 | astronomical interferometry                        |
|                     | . saddle points (game theory)      |                            | etalons  |
|                     | saddle points                      | ∞ devices                  |  |
|                     | saddle points (game theory)        | emergency life sustainir   | ng systems fiber optics                            |
| DT                  | operations research                | enclosures                 | interferometers                                    |
| IXI                 |                                    |                            | interferometry                                     |
|                     | saddles                            | ∞ equipment                |  |
| 00                  | theories                           | fail-safe systems          | laser gyroscopes                                   |
|                     | zero sum games                     | fire prevention            | laser interferometry                               |
|                     | 3                                  | flame deflectors           | light transmission                                 |
| saddles             |                                    | flight safety              | nonlinear optics                                   |
|                     |                                    |                            | optical gyroscopes                                 |
| RT                  | saddle points (game theory)        | gates (openings)           |  |
|                     |                                    | guards (shields)           | optical paths                                      |
| saddles             | (supports)                         | harnesses                  | speckle interferometry                             |
|                     | structural members                 | hazards                    | wave propagation                                   |
| 00                  |                                    |                            |  |
|                     | . saddles (supports)               | human factors engineer     | ing Cala a mustion a                               |
|                     | supports                           | landing aids               | Saha equations                                     |
|                     | . saddles (supports)               | pressure suits             | RT arc heating                                     |
|                     | ,                                  | protection                 | electric arcs                                      |
| Saenaci             | space transportation system        |                            | ∞ equations  |
| _                   |                                    | protective clothing        |  |
|                     | ed September 1995)                 | protectors                 | ion density (concentration)                        |
| UF                  | Sanger space transportation system | radiation measuring ins    | truments ionization potentials                     |
| GS                  | transportation                     | radiation shielding        | temperature  |
|                     | . space transportation             |                            | '  |
|                     |                                    | shielding                  | Sahara Dacart (Africa)                             |
|                     | space transportation system        | smoke detectors            | Sahara Desert (Africa)                             |
|                     | Saenger space transportation       | space suits                | GS land  |
|                     | system                             | spacecraft shielding       | . deserts  |
| RT                  | aerospace planes                   |                            | Sahara Desert (Africa)                             |
| 111                 |                                    | warning                    | RT Africa  |
|                     | German space program               | warning systems            |  |
|                     | piggyback systems                  |                            | arid lands   |
|                     | ramjet engines                     | safety factors             | barren land  |
|                     | reusable spacecraft                | RT accident proneness      | desertification                                    |
|                     | reusable spaceciali                |                            |  |
| 0.1                 | . 1 4                              | aerospace safety           | dunes  |
|                     | rd system                          | design analysis            | remote regions                                     |
| GŠ                  | weapon systems                     | escape systems             |  |
|                     | . missile systems                  | hazards                    | SAIL project                                       |
|                     | Safeguard system                   |                            | UF Shuttle Avionics Integration                    |
| 5-                  |                                    | health physics             |  |
| RT                  | antimissile defense                | reliability                | Laboratory   |
|                     | ballistic missiles                 | stability                  | GS programs  |
|                     | military technology                | - ····· <b>y</b>           | . NASA programs                                    |
|                     |                                    | safety management          | NASA space programs                                |
|                     | missile defense                    |                            |  |
|                     | Sentinel system                    | GS management              | SAIL project                                       |
| 000                 | systems                            | . safety management        | . projects   |
|                     | •                                  | RT accident prevention     | SAIL project                                       |
| cafoty              |                                    | aerospace safety           | . space programs                                   |
| safety              | anfatu                             |                            |  |
| GS                  | safety                             | Assured Crew Return V      |  |
|                     | . aerospace safety                 | education                  | SAIL project                                       |
|                     | •                                  |                            | · ·  |

| RT   | Earth Viewing Applications Laboratory  |   | heat treatment  |  | isotopes   |
|--|--|---|---|--|--|
| 17.1   | laboratories   |   | molten salts  |  | samarium isotopes  |
|  | space laboratories   |   |   |  | . rare earth elements  |
|  | space shuttles   | salt be   |   |  | samarium   |
| sailnlan   | 20   | DEF   | Deposits of sodium chloride and other   |  | samarium isotopes  |
| sailplan<br>USE  | gliders  |   | sulting from the evaporation and/or pre-<br>n of ancient oceans.  |  | metals . rare earth elements   |
| 002  | gildoro  | GS  | geology   |  | samarium   |
| sails  |  |   | . beds (geology)  |  | samarium isotopes  |
| GS   | sails  |   | salt beds   |  | ·  |
|  | . magnetic sails   |   | landforms   | Samoa  |  |
|  | . sailwings<br>. solar sails   |   | . beds (geology) salt beds  | GS   | landforms  |
| RT   | fins   | RT  | brines  |  | . islands<br>Pacific islands   |
|  | gliders  |   | bromides  |  | Samoa  |
|  | tail assemblies  |   | chlorides   |  |  |
| coilwin  | 70   |   | flats (landforms)   | Samos  |  |
| sailwing<br>UF   | Princeton sailwings  |   | sodium chlorides  | UF   | Satellite and Missile Observation  |
| GS   | folding structures   | salt flat   | \$  | GS   | System artificial satellites   |
|  | . sailwings  | USE   | flats (landforms)   | 00   | . Samos  |
|  | sails  |   | ,   |  | military spacecraft  |
|  | sailwings  |   | ray tests   |  | . reconnaissance spacecraft  |
| RT   | gliders  | GS  | chemical tests  |  | Samos  |
|  | hang gliders   |   | . salt spray tests<br>environmental tests   | RT   | satellite tracking   |
| Saint E  | mo fire  |   | . corrosion tests   | eamnle   | return missions  |
| GS   | electric current   |   | salt spray tests  |  | ed March 2001)   |
|  | . electric discharges  | RT  | corrosion   |  | Space missions to collect material   |
| БТ   | Saint Elmo fire  |   | corrosion resistance  |  | from interplanetary space, a planet, or  |
| RT   | fires  |   | spray ingestion   |  | ody and return the samples to Earth.   |
| Saint Ve   | enant flexure problem  |   | stress corrosion  | GS   | space missions   |
|  | Saint Venant principle   | c   | o tests   |  | . sample return missions Mars sample return missions   |
|  |  | Salton  | Sea (CA)  |  | Stardust Mission   |
|  | enant principle  | GS  | seas  | RT   | samples  |
| UF   | Saint Venant flexure problem St Venant flexure problem   |   | . Salton Sea (CA)   |  | space exploration  |
| RT   | plastic deformation  | RT  | California  |  |  |
| 17.1   | static deformation   |   | deserts   |  | d data systems   |
|  | static loads   | ∞ salts   |   |  | ed July 1990)  |
|  | stress analysis  | SN  | (USE OF A MORE SPECIFIC TERM IS   | KI   | adaptive control automatic control   |
|  | stress concentration   |   | RECOMMENDEDCONSULT THE TERMS  |  | control stability  |
|  | temperature inversions   | RT  | LISTED BELOW)<br>halites  |  | control theory   |
| aaliaula   | tos  |   | inorganic compounds   |  | data sampling  |
|  |  |   |   |  |  |
| salicyla<br>GS   |  |   | molten salts  |  | feedback control   |
| GS   | salicylates . sodium salicylates   |   | molten salts organic charge transfer salts  |  | feedback control   |
|  | salicylates  |   | molten salts organic charge transfer salts organic compounds  | sample   | feedback control   |
| GŠ   | salicylates . sodium salicylates acetylsalicylic acid drugs  |   | molten salts organic charge transfer salts organic compounds sodium chlorides   | <b>sample</b><br>UF                              | rs bombs (samplers)  |
| GŠ   | salicylates . sodium salicylates acetylsalicylic acid  |   | molten salts organic charge transfer salts organic compounds  | ÚF   | feedback control   |
| GŠ<br>RT   | salicylates . sodium salicylates acetylsalicylic acid drugs  | Salyut  | molten salts organic charge transfer salts organic compounds sodium chlorides   | ÚF   | feedback control  rs  bombs (samplers) sampling devices  |
| GŠ   | salicylates . sodium salicylates acetylsalicylic acid drugs  | <b>Salyut</b><br>GS                                 | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  | ÚF   | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples  |
| GS<br>RT<br>salinity   | salicylates . sodium salicylates acetylsalicylic acid drugs esters   |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations  | ÚF   | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling   |
| GS<br>RT<br>salinity   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity  |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station   | ÚF<br>RT ∘                                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors   |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines   |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites space stations Salyut space station manned spacecraft   | ÚF<br>RT ∘                                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling   |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling   |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites space stations Salyut space station manned spacecraft Salyut space station  | ÚF<br>RT ∘                                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling sampling selectors betest equipment   |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization  |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft  | ÚF<br>RT ∘                                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling sampling selectors betest equipment   |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents   |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites space stations Salyut space station manned spacecraft Salyut space station  | UF<br>RT ∞<br>sample:<br>DEF<br>tended t         | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole.  |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization  |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station Salyut space station Salyut space station   | UF<br>RT ∞<br>sample:<br>DEF<br>tended t         | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling samples selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples  |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling  | <u>é</u> s  | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . space stations . Salyut space station Salyut space station stations . Space stations . Salyut space station   | Sample: DEF tended to                            | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples Mars surface samples   |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water  |   | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space station Solyut space station stations . Salyut space station Solyut space station Solyut space station Soyuz spacecraft   | UF<br>RT ∞<br>sample:<br>DEF<br>tended t         | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability   |
| GS<br>RT<br>salinity<br>GS<br>RT   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling  | <u>é</u> s  | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Space station stations . Space station Soyuz space station Soyuz space station Soyuz space station Soyuz spacecraft space bases   | Sample: DEF tended to                            | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples Mars surface samples   |
| GS<br>RT<br>salinity<br>GS   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation   | <u>é</u> s  | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station stations . Salyut space station Soyuz spacecraft space bases space laboratories  | Sample: DEF tended to                            | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions   |
| GŚ<br>RT<br>salinity<br>GS<br>RT   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling  | <u>é</u> s  | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Space station stations . Space station Soyuz space station Soyuz space station Soyuz space station Soyuz spacecraft space bases   | Sample: DEF tended to                            | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions samplers samplers sampling  |
| GŚ<br>RT<br>salinity<br>GS<br>RT   | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation   | ĞS<br>RT  | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space station Soyut space station stations . space station Soyuz space station Soyuz space station Soyuz space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  | Sample: DEF tended to                            | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions samplers  |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS                               | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus  | ĞS<br>RT<br>Samariu                                 | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station stations . space stations . Salyut space station stations . space stations . Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program   | sample: DEF tended t GS RT                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions sampler return missions sampler sampling specimens   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS                               | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system  | ĞS<br>RT<br>Samariu                                 | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space station Soyut space station stations . space station Soyuz space station Soyuz space station Soyuz space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  | sample: DEF tended t GS RT                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands  | ĞS<br>RT<br>Samarii<br>USE                          | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station stations . Salyut space station stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  stan aircraft C-131 aircraft  | sample: DEF tended t GS RT                       | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions sampler return missions sampler sampling specimens   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands  | ĞS<br>RT<br>Samariu                                 | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station stations . Salyut space station stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  stan aircraft C-131 aircraft  | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands  | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space stations space stations . Usur space station stations . Salyut space station stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program stan aircraft C-131 aircraft   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling  |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system   | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . Salyut space station stations . Salyut space station stations . Salyut space station Soviet spacecraft Salyut space station stations . Salyut space station U.S.S.R. space program  space laboratories spacecraft docking U.S.S.R. space program  space stations  chemical elements . rare earth elements . samarium   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling air sampling . air sampling . core sampling   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system . salivary glands   | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet space station Soviet space station stations . salyut space station stations . Salyut space station Soyuz space station Soyuz space station Soyuz space station U.S.S.R. space program  an aircraft C-131 aircraft  m chemical elements . samarium . samarium . samarium isotopes  | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling . core sampling . core sampling . data sampling   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system . salivary glands . glands (anatomy)  | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space station Soviet space station stations . Salyut space station Soyuz space station Soyuz space station U.S.S.R. space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program stan aircraft  C-131 aircraft  Lim chemical elements . rare earth elements . samarium samarium isotopes metals  | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples acceptability Mars sample return missions sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling air sampling core sampling data sampling data sampling particulate sampling   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT<br>Salivary<br>UF<br>GS | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands  parotid gland anatomy . digestive system . salivary glands glands glands (anatomy) . salivary glands  | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station stations . space stations U.S.I space station soviet spacecraft space bases space laboratories space laboratories spacecraft docking U.S.S.R. space program  an aircraft  C-131 aircraft  Im chemical elements . rare earth elements . samarium samarium isotopes metals . rare earth elements   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling . core sampling . data sampling . particulate sampling . random sampling   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT                         | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands glands parotid gland anatomy . salivary glands . salivary glands . glands (anatomy) . salivary glands mouth  | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . Salyut space station Soviet spacecraft . Salyut space station Soviet spacecraft . Salyut space station Soviet spacecraft . Salyut space station Soyuz spacecraft space bases . Salyut space station Coyuz spacecraft space laboratories spacecraft docking U.S.S.R. space program  space an aircraft  C-131 aircraft  Im chemical elements . rare earth elements . samarium samarium isotopes metals . rare earth elements . rare earth elements . rare earth elements . rare earth elements . samarium  | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling air sampling . core sampling . data sampling . particulate sampling . random sampling . random sampling . soil sampling   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT<br>Salivary<br>UF<br>GS | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands  parotid gland anatomy . digestive system . salivary glands glands glands (anatomy) . salivary glands  | ĞS<br>RT<br>Samariu<br>USE<br><b>samari</b> i       | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station stations . space stations U.S.I space station soviet spacecraft space bases space laboratories space laboratories spacecraft docking U.S.S.R. space program  an aircraft  C-131 aircraft  Im chemical elements . rare earth elements . samarium samarium isotopes metals . rare earth elements   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling . core sampling . core sampling . data sampling . random sampling . soil sampling . soil sampling . soil sampling . water sampling . water sampling   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT<br>Salivary<br>UF<br>GS | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system . salivary glands . glands (anatomy) . salivary glands mouth saliva   | ĞS<br>RT<br>Samariı<br>USE<br><b>samari</b> ı<br>GS | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . Salyut space station Soviet spacecraft . Salyut space station Soviet spacecraft . Salyut space station Soviet spacecraft . Salyut space station Soyuz spacecraft space bases . Salyut space station Coyuz spacecraft space laboratories spacecraft docking U.S.S.R. space program  space an aircraft  C-131 aircraft  Im chemical elements . rare earth elements . samarium samarium isotopes metals . rare earth elements . rare earth elements . rare earth elements . rare earth elements . samarium  | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling . core sampling . core sampling . particulate sampling . random sampling . soil sampling . soil sampling . water sampling . water sampling  |
| GS<br>RT<br>salinity<br>GS<br>RT<br>saliva<br>GS<br>RT<br>Salivary<br>UF<br>GS | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands glands parotid gland anatomy . salivary glands . glands (anatomy) . salivary glands mouth saliva  ella microorganisms                                    | ĞS<br>RT<br>Samariı<br>USE<br><b>samari</b> ı<br>GS | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . Salyut space station Soviet spacecraft . Salyut space station Soviet spacecraft . Salyut space station Soviet spacecraft . Salyut space station Soyuz spacecraft space bases . Salyut space station Coyuz spacecraft space laboratories spacecraft docking U.S.S.R. space program  space an aircraft  C-131 aircraft  Im   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions samplers samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling . core sampling . data sampling . particulate sampling . random sampling . soil sampling . water sampling allowances assaying Bayes theorem   |
| GS<br>RT<br>salinity<br>GS<br>RT<br>salivary<br>UF<br>GS                       | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system . salivary glands . glands (anatomy) . salivary glands mouth saliva ella microorganisms . bacteria              | GS RT Samariu USE samariu GS                        | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  tan aircraft C-131 aircraft  um chemical elements . rare earth elements . samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium compounds . samarium compounds   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples . Mars surface samples acceptability Mars sample return missions sample return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling air sampling . core sampling . core sampling . particulate sampling . random sampling . soil sampling . soil sampling . water sampling allowances assaying Bayes theorem censored data (mathematics)                         |
| GS<br>RT<br>salinity<br>GS<br>RT<br>salivary<br>UF<br>GS                       | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands glands parotid gland anatomy . salivary glands . glands (anatomy) . salivary glands mouth saliva  ella microorganisms                                    | GS  Samarii USE  Samarii GS  Samarii GS             | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space stations . space stations space stations . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program tan aircraft  C-131 aircraft  um chemical elements . samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium compounds . samarium compounds . samarium compounds . chemical compounds | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples acceptability Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling air sampling core sampling core sampling particulate sampling random sampling soil sampling water sampling allowances assaying Bayes theorem censored data (mathematics) chemical analysis                              |
| GS<br>RT<br>salinity<br>GS<br>RT<br>salivar<br>UF<br>GS<br>RT                  | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system . salivary glands . glands (anatomy) . salivary glands mouth saliva ella microorganisms . bacteria . salmonella | GS  Samaria USE  Samaria GS  Samaria                | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space station manned spacecraft . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soviet spacecraft . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program  tan aircraft C-131 aircraft  um chemical elements . rare earth elements . samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium compounds . samarium compounds   | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples acceptability Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling . air sampling . core sampling . data sampling . particulate sampling . random sampling . soil sampling . water sampling allowances assaying Bayes theorem censored data (mathematics) chemical analysis chemical tests |
| GS<br>RT<br>salinity<br>GS<br>RT<br>salivary<br>UF<br>GS                       | salicylates . sodium salicylates acetylsalicylic acid drugs esters  chemical properties . salinity alkalinity brines core sampling desalinization ocean currents oceanographic parameters sea water soil sampling thermohaline circulation  body fluids . saliva digestive system mucus salivary glands parotid gland anatomy . digestive system . salivary glands . glands (anatomy) . salivary glands mouth saliva ella microorganisms . bacteria . salmonella | GS  RT  Samarii USE  samarii GS  RT  S              | molten salts organic charge transfer salts organic compounds sodium chlorides sulfonates  space station artificial satellites . space stations . Salyut space station manned spacecraft . Salyut space station Soviet space station stations . space stations . space stations . space stations space stations . Salyut space station stations . space stations . Salyut space station Soyuz spacecraft space bases space laboratories spacecraft docking U.S.S.R. space program tan aircraft  C-131 aircraft  um chemical elements . samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium samarium compounds . samarium compounds . samarium compounds . chemical compounds | sample: DEF tended t GS RT  samplir DEF the mate | feedback control  rs  bombs (samplers) sampling devices bombs core sampling samples sampling selectors test equipment  s  Physical or biological specimens into be representative of the whole. samples acceptability Mars surface samples acceptability Mars sample return missions sampler return missions samplers sampling specimens  ng  Obtaining of a portion representative of erial concerned. sampling air sampling core sampling core sampling particulate sampling random sampling soil sampling water sampling allowances assaying Bayes theorem censored data (mathematics) chemical analysis                              |

. nuclides

counting

RT brines

|         | estimating                  | RT      | Scout launch vehicle                                      | RT       | composite materials                    |
|---------|-----------------------------|---------|---|----------|--|
|         | exploration                 | 111     | Cocat launon voniolo                                      | 111      | epoxy matrix composites                |
|         | Global Air Sampling Program | San Ma  | rino  |          |  |
|         |                             | GS      | nations   |          | honeycomb cores                        |
|         | heterogeneity               | 03      |   |          | honeycomb structures                   |
|         | homogeneity                 | ОТ      | . San Marino  |          | interlayers                            |
|         | inspection                  | RT      | Europe  |          | laminates                              |
|         | investigation               |         | Italy   |          | multilayer insulation                  |
|         | probability theory          |         |   |          | ply orientation                        |
|         | process control (industry)  |         | blo Bay (CA)  |          | rigid structures                       |
|         | quality control             | GS      | bays (topographic features)                               | •        | ∘ structures                           |
|         | random errors               |         | . San Pablo Bay (CA)                                      |          | walls                                  |
|         | reliability                 | RT      | California  |          |  |
|         | Rosetta mission             |         | San Francisco Bay (CA)                                    | Congor   | anaga transportation augtom            |
|         | samplers                    |         | , ,   |          | space transportation system            |
|         |                             | sand ca | sting   | USE      | Saenger space transportation           |
|         | samples                     | GS      |   |          | system                                 |
|         | selection                   |         | . casting   |          |  |
|         | sequential analysis         |         | sand casting  | sanitati | ion                                    |
|         | specimens                   | RT      | molding materials   | RT       | consumables (spacecrew supplies)       |
|         | standards                   | IXI     | sands   |          | health                                 |
|         | statistical analysis        |         | Salius  |          | housekeeping (spacecraft)              |
| 0       | statistics                  | sand du | noe   |          | hygiene                                |
|         | sweep circuits              |         |   |          | potable water                          |
| 0       | ∘ tests                     | USE     | dunes   |          | public health                          |
|         | variability                 | 0       | illa Danian (OA NO CO)                                    |          | ·                                      |
|         | Weibull density functions   |         | ills Region (GA-NC-SC)                                    |          | sewers                                 |
|         | Weibuii density functions   | GS      | regions   |          | toilets                                |
| samnlin | ng devices                  |         | . Sand Hills Region (GA-NC-SC)                            |          | warning systems                        |
| ,       | 0                           | RT      | Georgia   |          | waste disposal                         |
| USE     | samplers                    |         | North Carolina  |          | waste management                       |
| C A     | desas Fault                 |         | South Carolina  |          |  |
|         | dreas Fault                 |         |   | Santow   | ax (trademark)                         |
| GS      | geological faults_          | Sand H  | ills Region (NE)  | RT       | polystyrene                            |
|         | . San Andreas Fault         |         | regions   | IXI      | polystyrene                            |
| RT      | California                  | 00      |   |          |  |
|         | crustal fractures           | ОТ      | . Sand Hills Region (NE)                                  | sapphir  |  |
|         | Earth crust                 | RT      | Nebraska  | GS       | aluminum compounds                     |
|         | earthquakes                 | 0       |   |          | . aluminum oxides                      |
|         | Mexico                      |         | per target missile  |          | sapphire                               |
|         | MEXICO                      | GS      | missile configurations                                    |          | chalcogenides                          |
| San An  | dreas Fault experiment      |         | . Sandpiper target missile                                |          | . oxides                               |
| RT      | earthquakes                 |         | missiles  |          | metal oxides                           |
| IXI     |                             |         | . Sandpiper target missile                                |          | aluminum oxides                        |
|         | geological faults           | RT      | drone vehicles  |          |  |
| Con Fr  | anaissa (CA)                |         | targets   |          | sapphire                               |
|         | ancisco (CA)                |         | J   |          |  |
| GS      | cities                      | sands   |   | sapropl  | hytes                                  |
|         | . San Francisco (CA)        | GS      | sediments   | GS       | plants (botany)                        |
| RT      | California                  |         | . sands   |          | . saprophytes                          |
|         |                             |         |   | RT       | bacteria                               |
| San Fra | ancisco Bay (CA)            |         | monazite sands  |          | microorganisms                         |
| GS      | bays (topographic features) |         | tar sands   |          | moroorganisms                          |
|         | San Francisco Bay (CA)      |         | soils   |          |  |
| RT      | California                  |         | . sands   | sarcina  |  |
| 111     | Pacific Ocean               |         | monazite sands  | GS       | microorganisms                         |
|         | San Pablo Bay (CA)          |         | tar sands   |          | . bacteria                             |
|         | Sali i abio bay (OA)        | RT      | aggregates  |          | sarcina                                |
| San lo  | aquin Valley (CA)           |         | alluvium  |          |  |
|         |                             |         | aquifers  | sarcoma  | а                                      |
| GS      | valleys                     |         | deltas  | USE      | cancer                                 |
|         | . San Joaquin Valley (CA)   |         | dunes   | UOL      | Caricer                                |
| RT      | California                  |         |   |          |  |
|         | river basins                |         | dust  |          | lasmic reticulum                       |
|         |                             |         | Earth resources   | GS       | organelles                             |
| San Ju  | an Mountains (CO)           |         | fans (landforms)  |          | . endoplasmic reticulum                |
| GS      | landforms                   |         | gravels   |          | sarcoplasmic reticulum                 |
|         | . mountains                 |         | grit  | RT       | cells (biology)                        |
|         | San Juan Mountains (CO)     |         | ilmenite  |          | cytology                               |
| RT      | Colorado                    |         | littoral drift  |          | cytoplasm                              |
|         |                             |         | littoral transport  |          | -,                                     |
| San Ma  | rco 1 satellite             |         | molding materials   | _        |  |
|         | artificial satellites       |         | porous materials  | Sargas   |  |
| 00      | . meteorological satellites |         | quartz  |          | A region in the Atlantic characterized |
|         | San Marco satellites        |         | rain erosion  | by mixir | ng ocean currents and a lack of winds. |
|         | San Marco 1 satellite       |         |   | Located  | I northeast of the West Indies.        |
|         | San Marco i Satellite       |         | reefs   | RT       | Atlantic Ocean                         |
| C M-    | 04-11:4-                    |         | sand casting  |          | Gulf Stream                            |
|         | rco 2 satellite             |         | sandstones  |          | ocean models                           |
| GS      | artificial satellites       |         | sedimentary rocks   |          | ocean surface                          |
|         | . meteorological satellites |         | silica glass  |          | oceanography                           |
|         | San Marco satellites        |         | silicon dioxide   |          | seas                                   |
|         | San Marco 2 satellite       |         |   |          | 3043                                   |
|         |                             | sandsto | ones  | <u> </u> |  |
| San Ma  | rco 3 satellite             | GS      | rocks   | SarSat   |  |
| GS      | artificial satellites       |         | . sedimentary rocks                                       |          | The US satellite of the COSPAS-        |
|         | . meteorological satellites |         | sandstones  | SarSat   | project for the search and rescue of   |
|         | San Marco satellites        | RT      | Earth resources   |          | ed vehicles, administered by USSR, US, |
|         | San Marco 3 satellite       | 17.1    | sands   |          | and Canadian agencies. Used for        |
|         | Juli mai oo o datomito      |         |   |          | and Rescue Satellite.                  |
| San Ma  | rco satellites              |         | schist  | UF       | Search and Rescue Satellite            |
| GS      | artificial satellites       |         | soils   |          | artificial satellites                  |
| GS      |                             |         |   | GS       |  |
|         | . meteorological satellites |         | ch construction   | 5.7      | . SarSat                               |
|         | One Manne antallities       |         |   | RT       | COSPAS                                 |
|         | . San Marco satellites      | USE     | sandwich structures                                       | 131      |  |
|         | San Marco 1 satellite       |         |   | 1(1      | NOAA 8 satellite                       |
|         |                             |         | sandwich structures  ch structures  sandwich construction | IXI      |  |

|           | searching  |           | Geosat satellites                             |                  | circumlunar communication                         |
|-----------|--|-----------|---|------------------|---|
| 646       |  |           | Ice, Cloud and Land Elevation                 |                  | communication satellites                          |
| SAS<br>UF | Small Astronomy Satellites                           |           | Satellite radar measurement                   |                  | Earth terminals facsimile communication           |
| GS        | artificial satellites                                |           | satellite observation                         |                  | free-space optical communication                  |
| 00        | . scientific satellites                              |           | satellite-borne radar                         |                  | ground-air-ground communication                   |
|           | astronomical satellites                              |           | SEASAT satellites                             |                  | hoop column antennas                              |
|           | SAS  |           | topography                                    |                  | interplanetary communication                      |
|           | Explorer 53 satellite                                |           |   |                  | Iridium network                                   |
|           | SAS-1  |           | and Missile Observation System                |                  | lunar communication                               |
|           | SAS-2  | USE       | Samos   |                  | multibeam antennas                                |
|           | SAS-3  | cotollito | antennas                                      |                  | optical communication                             |
|           | observatories . astronomical observatories           |           | antennas                                      |                  | packet transmission plasma antennas               |
|           | . astronomical satellites                            | 00        | . satellite antennas                          |                  | radio communication                               |
|           | SAS  | RT        | furlable antennas                             |                  | satellite communications ships                    |
|           | Explorer 53 satellite                                |           | multibeam antennas                            |                  | satellite ground support                          |
|           | SAS-1  |           | radio antennas                                |                  | single channel per carrier                        |
|           | SAS-2  |           | telecommunication                             |                  | transmission                                      |
|           | SAS-3  |           |   |                  | system generated electromagnetic                  |
| RT        | Explorer 48 satellite                                | DEF       | atmospheres The atmospheres that are found on |                  | pulses  |
|           | Uhuru satellite                                      | natural s |   |                  | transmission rate (communications) unified S band |
| SAS-1     |  |           | environments                                  |                  | unined 5 band                                     |
| UF        | Small Astronomy Satellite 1                          |           | . extraterrestrial environments               | satellite        | communications ships                              |
| GS        | artificial satellites                                |           | satellite atmospheres                         |                  | USNS Kingsport                                    |
|           | . scientific satellites                              |           | lunar atmosphere                              | GS               | surface vehicles                                  |
|           | astronomical satellites                              |           | Titan atmosphere                              |                  | . satellite communications ships                  |
|           | SAS  | RT ∞      | atmospheres                                   |                  | water vehicles                                    |
|           | SAS-1  |           | atmospheric chemistry                         |                  | . ships   |
|           | observatories  |           | atmospheric composition atmospheric physics   | D.T.             | satellite communications ships                    |
|           | . astronomical observatories astronomical satellites |           | Earth atmosphere                              | RT               | satellite communication                           |
|           | SAS  |           | Earth ionosphere                              |                  | spacecraft communication                          |
|           | SAS-1  |           | Earth magnetosphere                           | satellite        | configurations                                    |
| RT        | radio astronomy                                      |           | Huygens probe                                 |                  | spacecraft configurations                         |
|           | •  |           | ionospheric composition                       |                  | satellite configurations                          |
| SAS-2     |  |           | magnetopause                                  | RT               | aerodynamic configurations                        |
| UF        | Small Astronomy Satellite 2                          |           | natural satellites                            |                  |   |
| GS        | artificial satellites                                |           | planetary atmospheres                         |                  | constellations                                    |
|           | . scientific satellites astronomical satellites      |           | stellar atmospheres<br>Titan                  | UF               | ed February 1994)<br>satellite clusters           |
|           | SAS  |           | Triton  | GS               | networks  |
|           | SAS-2  |           | upper atmosphere                              | 00               | . satellite networks                              |
|           | observatories  |           |   |                  | . satellite constellations                        |
|           | . astronomical observatories                         | satellite | attitude control                              |                  | Constellation-X                                   |
|           | astronomical satellites                              | GS        | attitude control                              |                  | Iridium network                                   |
|           | SAS  |           | satellite attitude control                    | RT               | communication networks                            |
| БТ        | SAS-2  |           | spacecraft control . satellite control        |                  | communication satellites                          |
| RT        | Explorer 48 satellite                                |           | satellite attitude control                    |                  | formation flying Global Positioning System        |
|           | radio astronomy spaceborne astronomy                 | RT        | attitude stability                            |                  | microsatellites                                   |
|           | spacebonic astronomy                                 | 111       | automatic control                             |                  | nanosatellites                                    |
| SAS-3     |  | ∞         | control                                       |                  | satellite ground tracks                           |
| UF        | Small Astronomy Satellite 3                          |           | directional control                           |                  | satellite navigation systems                      |
| GS        | artificial satellites                                |           | gravity gradient satellites                   |                  | spatial distribution                              |
|           | . scientific satellites                              |           | jet control                                   |                  | stationkeeping                                    |
|           | astronomical satellites                              |           | lateral control                               | 4-11:4-          | a a matural                                       |
|           | SAS<br><b>SAS-3</b>                                  |           | longitudinal control<br>Marquardt R4D engine  |                  | control<br>spacecraft control                     |
|           | observatories  |           | three axis stabilization                      | GS               | . satellite control                               |
|           | . astronomical observatories                         |           | Transit Attitude Control satellite            |                  | satellite attitude control                        |
|           | astronomical satellites                              |           |   | RT               | attitude control                                  |
|           | SAS  |           | attitude disturbance                          |                  | automatic control                                 |
|           | SAS-3  | USE       | attitude stability                            | ~                | control   |
| RT        | Explorer 53 satellite                                |           | spacecraft stability                          |                  | directional control                               |
|           | radio astronomy                                      | satellite | hreakun                                       |                  | flexible spacecraft                               |
|           | spaceborne astronomy<br>x ray astronomy              |           | spacecraft breakup                            |                  | formation flying gravity gradient satellites      |
|           | x ray astronomy                                      | 002       | opaccorar broakap                             |                  | jet control                                       |
| SAS-D     |  | satellite | capture                                       |                  | lateral control                                   |
| USE       | IUE  |           | spacecraft recovery                           |                  | longitudinal control                              |
|           |  |           |   |                  | manual control                                    |
| Saskato   |  | satellite |   |                  | remote control                                    |
| GS        | nations  | USE       | satellite constellations                      |                  | thrust control                                    |
|           | . Canada<br>Saskatchewan                             | ontall!t- | communication                                 | 20/-111/         | dofono  |
|           | Saskatchewan   |           | Use of communication satellites, pas-         | satellite<br>USE |   |
| SATAN     | (sensor)   |           | ecting belts of dipoles or needles, or        | USE              | spacecraft defense                                |
| USE       | terrain analysis                                     |           | orbiting balloons to extend the range         | satellite        | design  |
|           |  |           | communication by returning signals to         |                  | spacecraft design                                 |
| satellite | altimetry  |           | om the orbiting object, with or without       |                  | . satellite design                                |
| GS        | altimetry  | amplifica |   |                  | computer aided design                             |
|           | satellite altimetry                                  | GS        | telecommunication                             | ~                | design  |
| RT        | altimeters   |           | . space communication                         |                  | Indian space program                              |
|           | digital elevation models                             |           | spacecraft communication                      |                  | Japanese space program                            |
|           | geodesy<br>geodetic satellites                       | RT        | satellite communication ACTS                  |                  | microsatellites<br>nanosatellites                 |
|           | geoids   | IXI       | ARPA computer network                         |                  | product development                               |
|           | GEOS 3 satellite                                     |           | astrionics                                    |                  | small satellite technology                        |
|           |  |           |   |                  |   |

spacecraft structures structural design systems engineering

### satellite doppler positioning

positioning

satellite doppler positioning

RT Argos system Doppler effect Doppler navigation Doppler radar geodesy geodetic accuracy geodetic coordinates geodetic satellites

geodetic surveys polystation doppler tracking system

satellite tracking tracking (position)

satellite drag

dynamic characteristics GS

. drag

. satellite drag

aerodynamic drag electrostatic drag friction drag

satellite fragmentation

USE spacecraft breakup

satellite ground support

ground support equipment satellite communication spacecraft communication

satellite ground tracks

ground tracks GS

satellite ground tracks

flight paths orbits satellite constellations

satellite guidance

guidance (motion)

. spacecraft guidance

satellite guidance

automatic control inertial guidance injection guidance LOCATES system manual control reentry guidance rendezvous guidance space navigation

satellite imagery

imagery GS

satellite imagery

atmospheric correction Coastal Zone Color Scanner data products image analysis

imaging techniques MISR (radiometry)

normalized difference vegetation

index pixels

satellite observation satellite-borne photography

vegetative index

satellite instruments

spacecraft instruments

satellite instruments

. multispectral linear arrays

RT flight instruments ∞ instruments laser altimeters measuring instruments needs (data system) wildlife radiolocation

satellite interceptors

RT ∞ interceptors pursuit tracking

satellite laser ranging

(added July 2001)

A technique for determining the dis-

tance to or from an artificial satellite by precise measurement of the time required for a laser pulse to travel from a transmitter to a retroreflector and return to a detector.

UF SLR (ranging) rangefinding

. laser ranging . satellite laser ranging

utilization . laser applications

. . laser ranging
. . . satellite laser ranging

celestial geodesy geodetic satellites LAGEOS (satellite) laser range finders passive satellites retroreflection retroreflectors satellite tracking

satellite launching

USE spacecraft launching

satellite lifetime

GS life (durability) satellite lifetime RT

orbit decay spacecraft reentry

satellite maneuvers

USE spacecraft maneuvers

satellite navigation systems

satellite navigation systems
. Global Positioning System

**GLONASS** 

. Transit navigation system autonomous navigation navigation satellites radar navigation radio navigation satellite constellations space navigation ∞ systems

satellite networks

GS

(NETWORKS INCORPORATING SATELLITES) SN

networks

. satellite networks

. . Argos system . . satellite constellations

. . . Constellation-X

... Iridium network

. . VSAT (network)

aeronautical satellites

Aerosat satellites

code division multiple access communication networks

communication satellites

ComStar satellites demand assignment multiple access

domestic satellite communications systems formation flying HET experiment

L-Sat

Marecs maritime satellites

military spacecraft Molniya satellites

multimission modular spacecraft

navigation satellites NAVSTAR satellites network control Skynet satellites TDR satellites teleconferencina

time division multiple access

satellite observation

(OBSERVATION OF THE EARTH BY SN

SATELLITE) observation

. Earth observations (from space)

. satellite observation

arc clouds

Earth Resources Program

Envisat-1 satellite

EOS data and information system

EROS (satellites)

**ESSA** satellites FIRE (climatology)

Glory Mission satellite IRIS satellites ISCCP Project

Landsat satellites meteorological satellites METEOSAT satellite MISR (radiometry)

Nimbus project Nimbus satellites satellite altimetry satellite imagery

SIRS B satellite spaceborne photography Surface Meteorology and Solar

Energy project

Surface Radiation Budget project swath width

Synchronous Earth Observatory

satellite

TIROS operational satellite system

TIROS satellites TOPEX Uhuru satellite

vegetative index Vela satellites wildlife radiolocation

satellite oceans (added June 2001)

USE extraterrestrial oceans

satellite orbit calculation USE orbit calculation

satellite orbits

(LIMITED TO ORBITS OF ARTIFICIAL

SATELLITES) GS

. spacecraft orbits

... satellite orbits

. . . geosynchronous orbits

. . . parking orbits

. . . stationary orbits

. twenty-four hour orbits

circular orbits Earth orbits elliptical orbits equatorial orbits Lissajous figures low Earth orbits

lunar orbits orbit insertion

orbit spectrum utilization orbital mechanics

orbital position estimation orbital resonances (celestial

mechanics) planetary orbits retrograde orbits transfer orbits

satellite orientation

attitude (inclination)

satellite orientation flexible spacecraft image dissector tubes spin stabilization three axis stabilization

satellite perturbation

perturbation GS

. orbit perturbation

satellite perturbation

Discos (satellite attitude control) gravitational fields orbital mechanics Schach effect spacecraft stability tesseral harmonics

satellite power transmission

(added November 1989) power beaming

satellite power transmission

laser power beaming microwave power beaming rectennas solar arravs

solar cells spacecraft design . . spaceborne photography solar power satellites spacecraft environments ... satellite-borne photography temperature distribution aerial photography satellite rendezvous temperature measurement astronomical photography USE orbital rendezvous black and white photography thermal environments DMSP satellites satellite repair satellite tracking forest fire detection GS tracking (position) USE orbital servicing geographic applications program . spacecraft tracking infrared photography satellite rotation . . satellite tracking Mars photographs GS gyration . . satellite-to-satellite tracking photomapping rotation cinetheodolites photomaps . satellite rotation Global Tracking Network rocket-borne photography flexible spacecraft International Satellite Geodesy satellite imagery spin reduction Experiment space surveillance (spaceborne) spin stabilization laser target designators spectral reconnaissance tumbling motion minitrack system timber inventory yo-yo devices optical satellite tracking program orbit determination satellite-borne radar satellite solar energy conversion photographic tracking GS radar energy conversion range and range rate tracking satellite-borne radar . satellite solar energy conversion Samos Envisat-1 satellite RT ∞ conversion satellite doppler positioning radar detection microwave transmission satellite laser ranging satellite altimetry microwaves Space Flight Tracking and Data search radar power conditioning Network surveillance radar solar cells STDN (network) synthetic aperture radar tracking networks tracking radar tracking stations satellite solar power stations transponder control group ∞ satellites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) energy conversion SN microwave transmission Satellite Tracking and Data Acq Network STDN (network) microwaves Any objects, man-made or natural, that DFF power conditioning orbit celestial bodies. solar cells satellite transmission RT artificial satellites sun GS transmission natural satellites . signal transmission ∞ spacecraft satellite sounding satellite transmission GS sounding Aloha system satellite-to-satellite tracking binary phase shift keying satellite sounding GS tracking (position) Advanced Microwave Sounding Unit code division multiplexing . spacecraft tracking artificial satellites data transmission . . satellite tracking atmospheric sounding direct broadcast satellites . . satellite-to-satellite tracking ionosondes domestic satellite communications space surveillance (spaceborne) ionospheric sounding systems tracking networks meteorological satellites downlinking Earth terminals radiosondes saturable reactors frequency division multiplexing rocket sounding SR (reactors) UF visible infrared spin scan radiometer frequency reuse electric reactors **MSAT** . saturable reactors multiplexing satellite surfaces magnet coils (RESTRICTED TO NATURAL SATELLITES) The crust and soil of natural satellites. pulse communication magnetic amplifiers DEF quadrature phase shift keying magnetic circuits GS satellite surfaces radio transmission magnetic cores . lunar surface single channel per carrier magnetic switching RT craters transmission power reactors extraterrestrial oceans spacecraft television transformers icy satellites TDR satellites Mercury surface television transmission saturated hydrocarbons natural satellites uplinking USE alkanes ∞ surfaces terrain analysis satellite-borne instruments ∞ saturation GS measuring instruments (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN satellite television . satellite-borne instruments GS communication equipment . . Advanced Microwave Sounding concentration (composition) . spacecraft television Unit condensing satellite television . . Advanced Very High Resolution crowding telecommunication Radiometer desaturation . spacecraft television . . AMPS (satellite payload) penetration . satellite television .. MISR (radiometry) permeating television systems Total Ozone Mapping Spectrometer precipitation (chemistry) . spacecraft television AMPTE (satellites) precipitation (meteorology) satellite television data products unsaturation (chemistry) color television DIAL satellite wetting direct broadcast satellites infrared radiometers meteorological satellites instrument packages saturation (chemistry) space probes ∞ instruments DEF The state of a solution when it holds **OPEN Project** stereotelevision the maximum equilibrium quantity of dissolved Symphonie satellites particle telescopes matter at a given temperature. television cameras radiation detectors RT chemical bonds television transmission remote sensors ∞ chemistry Sea-viewing Wide Field-of-view dew point satellite temperature Sensor precipitation (chemistry) spacecraft temperature single event upsets unsaturation (chemistry) satellite temperature Solar Backscatter UV Spectrometer temperature visible infrared spin scan radiometer ∞ Saturn satellite temperature (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN ambient temperature satellite-borne photography

imagery

. photography

RT

Saturn (planet)

GS

radiative heat transfer

solar radiation shielding

Saturn project

#### Saturn 1 launch vehicles

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

Saturn 1 SA-1 launch vehicle

Saturn 1 SA-10 launch vehicle

Saturn 1 SA-2 launch vehicle

Saturn 1 SA-3 launch vehicle

Saturn 1 SA-4 launch vehicle

Saturn 1 SA-5 launch vehicle

Saturn 1 SA-6 launch vehicle

Saturn 1 SA-7 launch vehicle

... Saturn 1 SA-8 launch vehicle

Saturn 1 SA-9 launch vehicle rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

Saturn 1 launch vehicles

Saturn 1 SA-1 launch vehicle Saturn 1 SA-10 launch vehicle

Saturn 1 SA-2 launch vehicle

Saturn 1 SA-3 launch vehicle

Saturn 1 SA-4 launch vehicle

Saturn 1 SA-5 launch vehicle

Saturn 1 SA-6 launch vehicle

Saturn 1 SA-7 launch vehicle

Saturn 1 SA-8 launch vehicle

. Saturn 1 SA-9 launch vehicle

H-1 engine

M-1 engine

#### Saturn 1 SA-1 launch vehicle

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

. . Saturn 1 SA-1 launch vehicle

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles ... Saturn 1 launch vehicles

. . . . Saturn 1 SA-1 launch vehicle

### Saturn 1 SA-10 launch vehicle

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

. . . Saturn 1 SA-10 launch vehicle

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

. . . Saturn 1 launch vehicles

.... Saturn 1 SA-10 launch vehicle

### Saturn 1 SA-2 launch vehicle

GS launch vehicles

. Saturn launch vehicles

... Saturn 1 launch vehicles

Saturn 1 SA-2 launch vehicle rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

. . . Saturn 1 launch vehicles

.... Saturn 1 SA-2 launch vehicle

### Saturn 1 SA-3 launch vehicle

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

. . . Saturn 1 SA-3 launch vehicle

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles ... Saturn 1 launch vehicles

.... Saturn 1 SA-3 launch vehicle

### Saturn 1 SA-4 launch vehicle

launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

... Saturn 1 SA-4 launch vehicle

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

. . . Saturn 1 launch vehicles .... Saturn 1 SA-4 launch vehicle

### Saturn 1 SA-5 launch vehicle

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

Saturn 1 SA-5 launch vehicle

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

... Saturn 1 launch vehicles

.... Saturn 1 SA-5 launch vehicle

#### Saturn 1 SA-6 launch vehicle

launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

. . . Saturn 1 SA-6 launch vehicle rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

... Saturn 1 launch vehicles

.... Saturn 1 SA-6 launch vehicle

#### Saturn 1 SA-7 launch vehicle

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

... Saturn 1 SA-7 launch vehicle rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

. . . Saturn 1 launch vehicles

.... Saturn 1 SA-7 launch vehicle

#### Saturn 1 SA-8 launch vehicle

GS launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

Saturn 1 SA-8 launch vehicle rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

... Saturn 1 launch vehicles .... Saturn 1 SA-8 launch vehicle

#### Saturn 1 SA-9 launch vehicle

launch vehicles

. Saturn launch vehicles

. . Saturn 1 launch vehicles

. . . Saturn 1 SA-9 launch vehicle rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

... Saturn 1 launch vehicles .... Saturn 1 SA-9 launch vehicle

#### Saturn 1 workshop

GS artificial satellites

. orbital workshops

. . Saturn workshops

. . . Saturn 1 workshop

manned spacecraft

. orbital workshops

. . Saturn workshops

Saturn 1 workshop

airlock modules Apollo applications program

Apollo project

multiple docking adapters

Skylab program space stations

### Saturn 1B launch vehicles

launch vehicles

Saturn launch vehicles

. . Saturn 1B launch vehicles rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

Saturn 1B launch vehicles

H-1 engine J-2 engine

M-1 engine

Skylab 2 Skylab 3 Skylab 4

## Saturn 2 launch vehicles

GS launch vehicles

. Saturn launch vehicles

Saturn 2 launch vehicles

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles

. Saturn 2 launch vehicles

#### Saturn 5 launch vehicles

GS launch vehicles

. Saturn launch vehicles

Saturn 5 launch vehicles

rocket vehicles

. multistage rocket vehicles

. . Saturn launch vehicles . Saturn 5 launch vehicles

J-2 engine

Skylab 2

Skylab 3

Skylab 4

### Saturn 5 workshop

GS artificial satellites

. orbital workshops

. . Saturn workshops

... Saturn 5 workshop

manned spacecraft

. orbital workshops . . Saturn workshops

. . Saturn 5 workshop

airlock modules

Apollo applications program Apollo project

multiple docking adapters

Skylab program space stations

Saturn (planet) celestial bodies GS

. planets

. gas giant planets Saturn (planet)

Calypso Cassini mission

Dione Enceladus

**Epimetheus** Helene

Hyperion

**lapetus** Janus

Mimas Pandora

Phoebe Prometheus

Rhea (astronomy) Saturn

Telesto Tethys

Titan

Titan atmosphere

# Voyager 2 spacecraft

Saturn atmosphere DEF The outer shell of gas surrounding the

planet Saturn.

environments . extraterrestrial environments

atmospheric composition

planetary ionospheres

. . planetary environments ... planetary atmospheres ... Saturn atmosphere

### planetary radiation

Saturn D launch vehicle

GS launch vehicles . Saturn launch vehicles

. . Saturn D launch vehicle

rocket vehicles . multistage rocket vehicles

. . Saturn launch vehicles . Saturn D launch vehicle RL-10-A-3 engine

#### Saturn launch vehicles

GS launch vehicles . Saturn launch vehicles

. . Saturn 1 launch vehicles

Saturn 1 SA-1 launch vehicle . . . Saturn 1 SA-10 launch vehicle

Saturn 1 SA-2 launch vehicle Saturn 1 SA-3 launch vehicle

Saturn 1 SA-4 launch vehicle

. . . Saturn 1 SA-5 launch vehicle

|        | Saturn 1 SA-6 launch vehicle             | Saturn S-2 stage                              |               | . nuclear powered ships                                      |
|--------|--|---|---------------|--|
|        | Saturn 1 SA-7 launch vehicle             | RT liquid propellant rocket engines           |               | Savannah nuclear ship  |
|        | Saturn 1 SA-8 launch vehicle             |   |               | water vehicles   |
|        | Saturn 1 SA-9 launch vehicle             | Saturn S-4 stage                              |               | . ships  |
|        | Saturn 1B launch vehicles                | GS rocket vehicles                            |               | cargo ships  |
|        | Saturn 2 launch vehicles                 | . Saturn stages                               |               | Savannah nuclear ship  |
|        | Saturn 5 launch vehicles                 | Saturn S-4 stage                              |               | nuclear powered ships  |
|        | Saturn D launch vehicle                  | RT liquid propellant rocket engines           |               | Savannah nuclear ship  |
|        | rocket vehicles                          |   | RT            |  |
|        | . multistage rocket vehicles             | Saturn S-4B stage                             |               | nuclear propulsion   |
|        | Saturn launch vehicles                   | GS rocket vehicles                            |               |  |
|        | Saturn 1 launch vehicles                 | . Saturn stages                               | savann        |  |
|        | Saturn 1 SA-1 launch vehicle             | Saturn S-4B stage                             | USE           | grasslands   |
|        | Saturn 1 SA-10 launch vehicle            | RT liquid propellant rocket engines           | 0.4.44        |  |
|        | Saturn 1 SA-2 launch vehicle             |   |               | devices  |
|        | Saturn 1 SA-3 launch vehicle             | Saturn satellites                             | USE           | surface acoustic wave devices                                |
|        | Saturn 1 SA-4 launch vehicle             | DEF The natural satellites of the planet Sat- |               |  |
|        | Saturn 1 SA-5 launch vehicle             | urn.  | saws          |  |
|        | Saturn 1 SA-6 launch vehicle             | GS celestial bodies                           | GS            | cutters  |
|        | Saturn 1 SA-7 launch vehicle             | . natural satellites                          |               | . saws   |
|        | Saturn 1 SA-8 launch vehicle             | Saturn satellites                             |               | tools  |
|        | Saturn 1 SA-9 launch vehicle             | Calypso                                       |               | . saws   |
|        | Saturn 1B launch vehicles                | Dione   | RT            | machine tools  |
|        | Saturn 2 launch vehicles                 | Enceladus                                     |               | shears   |
|        | Saturn 5 launch vehicles                 | Epimetheus                                    |               |  |
|        | Saturn D launch vehicle                  | Helene  | sawtoo        | th waveforms   |
| RT     |  | Hyperion                                      | GS            | waveforms  |
| KI     | Apollo project                           | lapetus                                       |               | . sawtooth waveforms   |
|        | F-1 rocket engine                        | Janus   | RT            |  |
|        | RL-10 engines                            |   |               | pulse duration   |
| c      | ∞ vehicles                               | Mimas<br>Pandora                              |               | square waves   |
|        |  |   |               | Square waves   |
|        | project                                  | Phoebe  | SC-1 ai       | roraft   |
| GS     | programs                                 | Prometheus                                    |               |  |
|        | . NASA programs                          | Rhea (astronomy)                              | UF            | Short SC-1 aircraft  |
|        | NASA space programs                      | Telesto                                       | GS            |  |
|        | Saturn project                           | Tethys  |               | SC-1 aircraft  |
|        | . projects                               | Titan   |               | monoplanes   |
|        | . Saturn project                         | RT icy satellites                             |               | . SC-1 aircraft  |
|        | . space programs                         | •   |               | research vehicles  |
|        | NASA space programs                      | Saturn stages                                 |               | . research aircraft  |
|        | Saturn project                           | GS rocket vehicles                            |               | SC-1 aircraft  |
| рΤ     |  | . Saturn stages                               |               | tailless aircraft  |
| RT     | Apollo applications program              | Saturn S-1 stage                              |               | . SC-1 aircraft  |
|        | Apollo spacecraft                        | Saturn S-1 stage                              |               | V/STOL aircraft  |
|        | Centaur launch vehicle                   | Saturn S-1D stage                             |               | . vertical takeoff aircraft                                  |
|        | launch vehicles                          |   |               | SC-1 aircraft  |
|        | lunar launch                             | Saturn S-2 stage                              | PT.           | ∞ aircraft   |
|        | Pegasus satellites                       | Saturn S-4 stage                              | IXI V         | ~ all clait  |
|        | RIFT (reactor in flight test)            | Saturn S-4B stage                             | SC-5 ai       | rcraft   |
| c      | ∞ Saturn                                 | RT liquid propellant rocket engines           | UF            |  |
|        | Voyager project                          |   | Oi            | Short Belfast C MK-1 aircraft                                |
|        |  | Saturn workshops                              |               |  |
| Saturn | rings                                    | GS artificial satellites                      | 00            | Short SC-5 aircraft  |
| GS     | celestial bodies                         | . orbital workshops                           | GS            | ,  |
|        | . planetary rings                        | Saturn workshops                              |               | . turboprop aircraft   |
|        | Saturn rings                             | Saturn 1 workshop                             |               | . SC-5 aircraft  |
| RT     | gas giant planets                        | Saturn 5 workshop                             |               | monoplanes   |
|        | Jupiter rings                            | manned spacecraft                             |               | . SC-5 aircraft  |
|        | moonlets                                 | orbital workshops                             |               | transport aircraft   |
|        | natural satellites                       | Saturn workshops                              |               | . SC-5 aircraft  |
|        | planetary atmospheres                    | Saturn 1 workshop                             | RT <          | ∞ aircraft   |
|        | planetary composition                    | Saturn 5 workshop                             |               |  |
|        |  | RT airlock modules                            | SC-7 ai       | rcraft   |
|        | planetary surfaces planetary temperature | Apollo applications program                   | UF            | Short SC-7 aircraft  |
|        |  | Apollo project                                |               | Skyvan aircraft  |
|        | planetology                              | multiple docking adapters                     |               | Turbo-Skyvan aircraft  |
|        | planets                                  | Skylab program                                | GS            | light aircraft   |
| c      | ∞ rings                                  | space stations                                |               | . SC-7 aircraft  |
|        | solar system                             | space stations                                |               | monoplanes   |
|        | Uranus rings                             | Saudi Arabia                                  |               | . SC-7 aircraft  |
|        |  |   |               | transport aircraft   |
|        | S-1 stage                                | GS nations                                    |               | . SC-7 aircraft  |
| GS     | rocket vehicles                          | . Saudi Arabia                                | DT.           | ∞ aircraft   |
|        | . Saturn stages                          | RT Asia                                       | KIS           |  |
|        | Saturn S-1 stage                         | Saudi Arabian space program                   |               | cargo aircraft   |
| RT     | liquid propellant rocket engines         |   |               | passenger aircraft   |
|        |  | Saudi Arabian space program                   | !             |  |
| Saturn | S-1B stage                               | GS programs                                   |               | nagnetic charge  |
|        | rocket vehicles                          | . space programs                              | USE           | magnetic charge density                                      |
|        | . Saturn stages                          | Saudi Arabian space program                   | _             |  |
|        | Saturn S-1B stage                        | RT Arabsat                                    | scalars       |  |
| RT     | liquid propellant rocket engines         | Arcomsat                                      |               | Any physical quantity whose field car                        |
| 13.1   |  | Saudi Arabia                                  | be desc       | ribed by a single numerical value at each                    |
| Saturn | S-1C stage                               | Space Shuttle mission 51-G                    | point in      | space.   |
|        |  | opado onatile mission o 1-0                   |               | tensor analysis  |
| 65     | rocket vehicles                          | Cayago airaraft                               |               | tensors  |
|        | . Saturn stages                          | Savage aircraft                               |               | 555  |
| _      | Saturn S-1C stage                        | USE A-2 aircraft                              | ∞ scale       |  |
| RT     | liquid propellant rocket engines         |   | ∞ scale<br>SN | (LISE OF A MODE SPECIFIC TERM IS                             |
| _      |  | Savannah nuclear ship                         | SIN           | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|        | S-2 stage                                | GS surface vehicles                           |               | LISTED BELOW)  |
| GS     | rocket vehicles                          | . cargo ships                                 | RT            | scale (corrosion)  |
|        | . Saturn stages                          | Savannah nuclear ship                         |               | scale (ratio)  |
|        | •  |   |               | · /  |

temperature scales wind tunnel calibration . ultrasonic scanners weight indicators conical scanning scalloping optical data processing scale (corrosion) RT edges optical equipment electron beams panoramic scanning GS corrosion reading scale (corrosion) traveling wave tubes scanning chemical attack degradation Scandinavia subreflectors descaling Denmark hot corrosion Finland scanning Norway In radar, the motion of the antenna pickling (metallurgy) Sweden assembly when searching for targets. rusting GS scanning ∞ scale scandium . conical scanning ∞ scaling GS chemical elements . frequency scanning . rare earth elements . panoramic scanning scale (ratio) . . scandium . radar scanning GS ratios . . scandium isotopes raster scanning . scale (ratio) metals Earth resources mapping . rare earth elements EROS (satellites) reticles . . scandium examination ∞ scale . scandium isotopes monitors . transition metals scale effect multispectral band scanners DEF Any variation in the nature of the flow and in the force coefficients associated with a . . scandium rapid ballistics identification reading ... scandium isotopes scanners change in value of the Reynolds number, i.e., scandium 46 searching caused by change in size without change in USE scandium isotopes surveillance shape ultrasonic scanners RT ∞ effects scandium compounds force distribution rare earth compounds multiscale models scanning devices scandium compounds USE scanners parameterization . scandium oxides Reynolds number RT ∞ chemical compounds scanning electron microscopy ∞ scaling ∞ Group 3B compounds (added September 1992) ∞ metal compounds A type of electron microscopy in which scale height a beam of electrons, a few hundred angstroms in diameter, systematically sweeps over the specimen. The intensity of secondary electrons DEF A measure of the relationship between scandium isotopes density and temperature at any point in the scandium 46 atmosphere. generated at the point of impact of the beam on the specimen is measureed and the resulting GS chemical elements dimensions . nuclides . height . . isotopes signal is fed into a cathode-ray-tube display . scale height scandium isotopes which is scanned in synchronism with the scan-Earth atmosphere . rare earth elements ning of the specimen. UF SEM (microscopy) geopotential height . . scandium head (fluid mechanics) . scandium isotopes GS microscopy metals . electron microscopy scale models . rare earth elements . scanning electron microscopy DEF Three-dimensional representations of . . scandium objects or structures containing all parts in the same proportion as their true size. electron beams . scandium isotopes electron microscopes . transition metals field emission models GS . . scandium ion microscopes scale models . . . scandium isotopes aerodynamic configurations aircraft models magnetic lenses microanalysis scandium oxides phase contrast multiscale models GS chalcogenides secondary emission Reynolds equation . oxides scaling laws . . metal oxides scanning laser acoustic microscope (SLAM) semispan models ... scandium oxides USE acoustic microscopes similarity theorem rare earth compounds similitude law . scandium compounds scanning tunneling microscopy spacecraft models .. scandium oxides (added October 1988) wind tunnel models GS microscopy Scanner project electron microscopy scalers GS programs scanning tunneling microscopy Devices that produce output pulses electron microscopes . projects whenever a prescribed number of input pulses Scanner project electron tunneling have been received. RT horizon scanners nanofabrication GS circuits infrared scanners transmission electron microscopy . counting circuits optical equipment . scalers scapula RT tensor analysis ĞS anatomy scanners Radar mechanisms incorporating such . musculoskeletal system scaling things as rotatable antennas, radiators, motor . . bones (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN drives, or mountings for directing a searching . scapula radar beam through space and imparting target arm (anatomy) RT calibrating information to an indicator. Used for scanning shoulders errors devices. scale (corrosion) scanning devices SCAR program scale effect GS scanners USE supersonic cruise aircraft research scaling laws . horizon scanners . infrared scanners scarf joints

. ocean color scanner
. . Coastal Zone Color Scanner

. optical scanners

Sensor

. . flying spot scanners . . multispectral band scanners

. . Sea-viewing Wide Field-of-view

... thematic mappers (LANDSAT)

scaling laws

laws

∞ scaling

scaling laws

scale models

dimensional analysis

similarity numbers

dimensionless numbers

GS

(added March 1998)

RT

increase in dimension at the joint.
GS joints (junctions)
. scarf joints

bolted joints

bonded joints

DEF A joint in which the overlapping parts

are tapered to form a continuous length, with no

lap joints transformation results, only a change in the cept the total amount of radiation actually scatmetal joints spatial distribution of the radiation. Used for tered by a scattering particle. They are also scarfing defined, equivalently, as the cross section areas UF scatterers of isotropic scatterers (spheres) which would scarfing GS scattering scatter the same amount of radiation as the cutting . backscattering GS actual amount. scarfing . coherent scattering absorption cross sections cleaning RT Compton effect baryon resonance grinding (material removal) . elastic scattering Born approximation metal cutting . electron scattering ∞ cross sections scarf joints . electron runaway (plasma physics) electron runaway (plasma physics) forward scattering ionization cross sections slicing . incoherent scattering neutron cross sections scarps inelastic scattering Pomeranchuk theorem USE escarpments inverse scattering pomerons ion scattering Ramsauer effect scars . nuclear scattering Regge poles GS tissues (biology) . . neutron scattering S matrix theory . scars . . resonance scattering stopping power . nucleon-nucleon scattering scars (geology) . proton scattering scattering functions USF erosion . radar scattering The intensities of scattered radiation in a given direction per lumen of flux incident upon . radio scattering SCAT the scattering material.

RT flux density . . microwave scattering USE supersonic commercial air . wave scattering transport ∞ functions . . acoustic scattering radiant flux density . reverberation SCATHA satellite . . atmospheric scattering DEF Satellite for investigating spacecraft charging at high altitudes. A joint NASA-Air Force venture. Used for P78-2 satellite. scattering matrix . tropospheric scattering USE S matrix theory . . electromagnetic scattering ionospheric F-scatter propagation P78-2 satellite scatterometers light scattering Spacecraft Charging at High Altitude measuring instruments . halos GS artificial satellites scatterometers microwave scattering . scientific satellites RT ∞ instruments Mie scattering . SCATHA satellite microwave scattering . Rayleigh scattering RT ∞ charging microwaves Raman spectra electric charge QuikSCAT satellite . . . Thomson scattering electromagnetic interference radar . . x ray scattering electrostatic charge radar scattering atomic collisions electrostatic probes bistatic reflectivity scattering electrostatic shielding wave scattering circumsolar radiation high energy electrons collision parameters scavenging collisions scatter plates (optics) cleaning deep scattering layers RT Holograms of diffusing screens for degassing deflection scattering incident light by the process of diffracdeoxidizing diffusion tion. dispersing purification GS optical equipment electromagnetic radiation scatter plates (optics) SCCF encounters beam splitters USE Solar Cell Calibration Facility Huygens principle coherent light impingement holographic interferometry scene analysis incident radiation holography data processing GS inelastic collisions scene analysis mean free path light scattering change detection particle collisions character recognition ∞ optics pomerons ∞ plates edge detection reflection Feature Identification and Location speckle holography releasing speckle interferometry Exper scatterometers image analysis shock wave interaction scatter propagation imagery spread reflection Specifically, the long-range propagaimaging techniques spreading tion of radio signals by scattering due to index of optical flow (image analysis) sprinkling video landmark acquisition and refraction inhomogeneities in the lower atmostatistical distributions tracking transmittance GS transmission wave degradation . electromagnetic wave transmission scene generation wave dispersion .. scatter propagation (added July 1998) wave interaction ... ionospheric F-scatter propagation GS imaging techniques . wave propagation scene generation scattering amplitude scatter propagation simulation GS amplitudes . . ionospheric F-scatter propagation . scene generation scattering amplitude backscattering computer graphics RT Faddeev equations forward scattering flight simulation Mandelstam representation ionospheric propagation image reconstruction wave scattering meteor trails scientific visualization scattering coefficients

DEF Measures of the attenuation due to scattering of radiation as it traverses a medium target simulators radio reception radio scattering radio transmission scenedesmus containing scattering particles. radio waves GS plants (botany) coefficients . algae GS scatterers scattering coefficients . . scenedesmus USE scattering absorptivity SCF attenuation coefficients scattering USE self consistent fields form factors DEF The process by which small particles suspended in a medium of a different index of

scattering cross sections

The hypothetical areas normal to the

incident radiation that would geometrically inter-

Schach effect

When a slowly or nonrotating satellite

is heated on its sunward side, the photons of

diffraction diffuse a portion of the incident radia-

tion in all directions. In scattering, no energy

thermal radiation carry away more momentum from the hot sunward side than the cold shadowed side, thereby giving the satellite a certain net acceleration in the direction away from the sun. This effect was discovered by Milton Schach in the course of an investigation of unknown perturbations in the LAGEOS satellite.

RT celestial mechanics  $\infty$  effects orbit perturbation perturbation

satellite perturbation

#### Schauder fixpoint theorem

theorems

Schauder fixpoint theorem

complex variables differential equations

#### schedules

GS schedules

countdown

contract management

precision predictions production planning

time time lag

turnaround (STS)

### scheduling

GS scheduling

. prediction analysis techniques

. programming (scheduling)

. . thrust programming

. observation scheduling

calendars

consecutive events continuity

∞ control

crop calendars decision theory

forecasting

lateness

mathematical models

matrix management mission planning

optimization

production engineering

quality control

sequencing

task complexity

task planning (robotics)

tasks

time series analysis

### scheelite

GS calcium compounds

scheelite chalcogenides

. oxides

. . metal oxides

. . . tungsten oxides

... scheelite

minerals

scheelite

tungsten compounds

. tungsten oxides

.. scheelite

### Schelkunoff principle

antenna radiation patterns horn antennas

Huygens principle reflectometers reflectors

schematics

USE circuit diagrams

Schiff bases USE imines

#### schist

DEF A strongly foliated crystalline rock formed by dynamic metamorphism which can be readily split into thin flakes or slabs due to the well developed parallelism of more then 508 of the minerals present.

GS rocks schist

limestone sandstones

### schizophrenia

GS psychoses

schizophrenia

RT ∞ depression irrationality

mental health

#### Schleicher aircraft

RT ∞ aircraft aliders

#### Schlieren photography

A method of photography for flow patterns that takes advantage of the fact that light passing through a density gradient in a gas is refracted as though it were passing through a prism.

GS imagery

. photography
. . shadowgraph photography

... Schlieren photography black and white photography differential interferometry

flow visualization

Mach-Zehnder interferometers

Moire effects

#### Schmidt cameras

optical equipment

. cameras

Schmidt cameras

photographic equipment

. cameras

. Schmidt cameras

astronomical photography Baker-Nunn camera

telescopes

#### Schmidt method

differential equations integral equations ∞ methodology

real variables

Schmidt number

dimensionless numbers Schmidt number

ratios

Schmidt number

Nusselt number Prandtl number

#### Schmidt telescopes

telescopes

Schmidt telescopes RT

reflecting telescopes

#### schools

RT education instructors training evaluation universities

### schools (fish)

GS animals

. vertebrates

. . fishes . . schools (fish)

RT fishing

ichthyology

Schottky barrier diodes
USE Schottky diodes

### Schottky diodes

Schottky barrier diodes GS electronic equipment

. diodes

. . semiconductor diodes . Schottky diodes

. solid state devices

. . semiconductor devices ... Schottky diodes

RT ∞ barriers

Barritt diodes gallium arsenides MSM (semiconductors) n-type semiconductors semiconductor junctions

SIS (semiconductors) work functions

zinc selenides

USE work functions

#### schreibersite

Schottky effect

GS iron compounds

schreibersite minerals

. schreibersite

nickel compounds

schreibersite

phosphorus compounds

. phosphides

. schreibersite

iron meteorites meteoritic composition stony meteorites

#### Schroedinger equation

wave equations

. Schroedinger equation

RT ∞ equations

Wentzel-Kramer-Brillouin method

#### Schuler tuning

DEF Adjusting a system performing the function of a pendulum so that it has a period of 84 minutes.

GS tuning

. Schuler tuning

gyroscopic pendulums gyroscopic stability inertial navigation

### Schumann-Runge bands

spectra GS

. spectral bands

Schumann-Runge bands

RT absorption spectra ∞ bands

emission spectra

Herzberg bands

oxygen quantum theory

#### Schwartz inequality

GS inequalities

Schwartz inequality

algebra

linear transformations vectors (mathematics)

## Schwartz method

GS analysis (mathematics) . numerical analysis . . approximation

. . Schwartz method stress analysis

. Schwartz method RT ∞ methodology

## Schwarz-Christoffel transformation

GS analysis (mathematics)

. complex variables

... Schwarz-Christoffel transformation

functions (mathematics) . Schwarz-Christoffel transformation

# conformal mapping

Schwarzschild antennas GS antennas

Schwarzschild antennas

horns parabolic reflectors radar antennas radio antennas

### Schwarzschild metric

RT bimetric theories coordinate transformations escape velocity

event horizon

### Schwassmann-Wachmann comet

| gravitational fields                | reactor physics                                  | Intasat satellite   |
|-------------------------------------|--|---|
| ionization                          | reentry physics                                  | EXOS satellites   |
| light speed                         | respiratory physiology                           |   |
| orbitals                            | seismology                                       | EXOS-A satellite  |
| orbits                              | solar diameter                                   | EXOS-B satellite  |
| relativity                          | solar physics                                    | EXOS-C satellite  |
| relativity                          | solid mechanics                                  | EXOS-D satellite  |
| Schwassmann-Wachmann comet          | ∞ solid state physics                            | Exosat satellite  |
| GS celestial bodies                 | stellar physics                                  | Explorer satellites                                       |
| . comets                            | sunrise  | Applications Explorer Satellites                          |
| Schwassmann-Wachmann comet          | sunset   | Cosmic Background Explorer                                |
| RT Comet Nucleus Tour               | taxonomy   | satellite   |
| solar system                        | theoretical physics                              | Dual Air Density Explorer                                 |
| colar dyolom                        | trigonometry                                     | Dynamics Explorer satellites                              |
| sciatic region                      | underwater physiology                            | Dynamics Explorer 1 satellite                             |
| GS anatomy                          | ∞ zoology  | Dynamics Explorer 2 satellite                             |
| . sciatic region                    | <b>5</b> 7                                       | Explorer 1 satellite                                      |
| regions                             | scientific instrument modules                    | Explorer 2 satellite                                      |
| . sciatic region                    | USE <b>SIM</b>                                   | Explorer 3 satellite                                      |
| RT human body                       | OOL OIN  | Explorer 4 satellite                                      |
| lumbar region                       | !(!fi  | Explorer 5 satellite                                      |
| musculoskeletal system              | scientific satellites                            | Explorer 6 satellite                                      |
| nerves                              | GS artificial satellites                         | Explorer 7 satellite                                      |
| spine                               | . scientific satellites                          | Explorer 8 satellite<br>Explorer 9 satellite              |
|                                     | AMPTE (satellites)                               |   |
| ∞ science                           | astronomical satellites                          | Explorer 10 satellite<br>Explorer 11 satellite            |
| SN (USE OF A MORE SPECIFIC TERM IS  | Astronomical Netherlands Satellite               | Explorer 11 Satellite                                     |
| RECOMMENDEDCONSULT THE TERMS        | Gamma Ray Observatory                            | Explorer 12 satellite                                     |
| LISTED BELOW) RT acoustics          | Ganina Ray Observatory Ginga satellite           | Explorer 14 satellite                                     |
| aeroacoustics                       | HEAO   | Explorer 15 satellite                                     |
| aerodynamics                        | HEAO 1   | Explorer 17 satellite                                     |
| ∞ aeronautics                       | HEAO 2   | Explorer 17 satellite                                     |
| aerospace medicine                  | HEAO 3   | Explorer 19 satellite                                     |
| aerothermodynamics                  | HEAO 4   | Explorer 20 satellite                                     |
| algebra                             | Hubble Space Telescope                           | Explorer 21 satellite                                     |
| anthropology                        | Infrared Astronomy Satellite                     | Explorer 22 satellite                                     |
| astrodynamics                       | Infrared Space Observatory (ISO)                 | Explorer 23 satellite                                     |
| astronomy                           | IUE  | Explorer 24 satellite                                     |
| astrophysics                        | Large Deployable Reflector                       | Explorer 25 satellite                                     |
| atmospheric physics                 | Magellan ultraviolet astronomy                   | Explorer 26 satellite                                     |
| atomic physics                      | satellite  | Explorer 27 satellite                                     |
| bioacoustics                        | OAO  | Explorer 28 satellite                                     |
| bioastronautics                     | OAO 1  | Explorer 29 satellite                                     |
| biodynamics                         | OAO 2  | Explorer 30 satellite                                     |
| ∞ biology                           | OAO 3  | Explorer 31 satellite                                     |
| biophysics                          | OSO  | Explorer 32 satellite                                     |
| botany                              | AOSO   | Explorer 33 satellite                                     |
| cloud physics                       | OSO-1  | Explorer 34 satellite                                     |
| combustion physics                  | OSO-2  | Explorer 35 satellite                                     |
| computational astrophysics          | OSO-3  | Explorer 36 satellite                                     |
| electrophysics                      | OSO-4  | Explorer 37 satellite                                     |
| electrophysiology                   | OSO-5  | Explorer 38 satellite                                     |
| entomology                          | OSO-6  | Explorer 39 satellite                                     |
| fluid dynamics                      | 080-7  | Explorer 40 satellite                                     |
| fluid mechanics                     | 080-8  | Explorer 41 satellite                                     |
| geology                             | OSO-C  | Explorer 43 satellite                                     |
| geometry                            | Quasat   | Explorer 44 satellite                                     |
| geophysics<br>health physics        | SAS<br>Explorer 53 satellite                     | Explorer 45 satellite<br>Explorer 46 satellite            |
| helioseismology                     | SAS-1  | Explorer 40 satellite                                     |
| hydrogeology                        | SAS-1  | Explorer 47 Satellite                                     |
| hydromechanics                      | SAS-2  | Explorer 49 satellite                                     |
| life sciences                       | Constellation-X                                  | Explorer 49 satellite                                     |
| low temperature physics             | James Webb Space Telescope                       | Explorer 51 satellite                                     |
| marine biology                      | LISA (observatory)                               | Explorer 52 satellite                                     |
| marine chemistry                    | Space Infrared Telescope Facility                | Explorer 53 satellite                                     |
| marine meteorology                  | Spartan satellites                               | Explorer 54 satellite                                     |
| ∞ materials science                 | Submillimeter Wave Astronomy                     | Explorer 55 satellite                                     |
| ∞ mathematics                       | Satellite  | Extreme Ultraviolet Explorer                              |
| ∞ mechanics (physics)               | Swift observatory                                | satellite   |
| medical science                     | Tenma satellite                                  | Far UV Spectroscopic Explorer                             |
| ∞ metallurgy                        | X Ray Astrophysics Facility                      | IMP   |
| meteorology                         | XMM-Newton telescope                             | International Magnetospheric                              |
| ∞ molecular physics                 | ATS  | Explorer  |
| neurophysiology                     | ATS 1  | International Sun Earth Explorers                         |
| neutron physics                     | ATS 2  | International Sun Earth Explorer                          |
| nuclear physics                     | ATS 3  | 1   |
| oceanography                        | ATS 4  | International Sun Earth Explorer                          |
| ∞ optics                            | ATS 5  | 2   |
| ∞ physical sciences                 | ATS 6  | International Sun Earth Explorer                          |
| ∞ physics                           | ATS 7  | 3   |
| physiochemistry                     | ATS 8  | Advanced Composition Explorer                             |
| physiology                          | Azur satellite                                   | IMAGE satellite   |
| plasma physics                      | Cannonball 2 satellite                           | Micrometeoroid Explorer satellites                        |
| polymer physics                     | CRRES (satellite)                                | Radio Astronomy Explorer                                  |
| psychophysics                       | DIAL satellite Environmental Research Satellites | satellite Solar Mesosphere Explorer                       |
| psychophysiology<br>radio astronomy | ERS 17   | Solar Mesosphere Explorer<br>Submillimeter Wave Astronomy |
| radio astronomy<br>radio physics    | ERS 17   | Satellite   |
| radio priyatoa                      | LINO 10  | Jaicille  |

|           | Transition Region and Coronal            |            | scintillating fibers                             |               | pitting                                    |
|-----------|--|------------|--|---------------|--|
|           | Explorer                                 |            | optical materials                                |               | wear                                       |
|           | Uhuru satellite<br>X Ray Timing Explorer |            | . optical fibers scintillating fibers            | Scornio       | constallation                              |
|           |  |            | waveguides                                       | USE           | constellation                              |
|           | Hawkeye satellites                       |            | optical waveguides                               | USE           | Scorpius constellation                     |
|           | Long Duration Exposure Facility          |            | optical fibers                                   | Scorpiu       | s constellation                            |
|           | LZEEBE satellite                         |            | scintillating fibers                             | UF            | Scorpio constellation                      |
|           | MagSat satellites                        | RT         | calorimeters                                     | GS            | constellations                             |
|           | MagSat 1 satellite                       |            | cosmic rays                                      |               | . Scorpius constellation                   |
|           | Magsat A satellite                       |            | fiber optics                                     | RT            | zodiac                                     |
|           | MagSat B satellite                       |            | gamma ray spectrometers                          |               |  |
|           | ORBIS                                    |            | gamma ray telescopes                             |               | ite (trademark)                            |
|           | ORBIS CAL satellite                      |            | gamma rays                                       | RT            | membrane structures                        |
|           | OV-1 satellites                          |            | hodoscopes                                       |               | refractory materials                       |
|           | OV-2 satellites                          |            | photomultiplier tubes                            | 04            | .1   |
|           | . OV-3 satellites . OV-4 satellites      |            | radiation counters scintillation                 | Scotlan<br>GS | u<br>nations                               |
|           | OV-4 satellites                          |            | scintillation counters                           | GS            | . United Kingdom                           |
|           | SCATHA satellite                         |            | 30IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII           |               | Scotland                                   |
|           | small scientific satellites              | scintilla  | tion   | RT            |  |
|           | Submillimeter Wave Astronomy             | DEF        | Generic term for rapid variations in             |               |  |
|           | Satellite                                | apparen    | t position, brightness, or color of a dis-       | Scout he      | elicopter                                  |
|           | Transition Region and Coronal            |            | inous object viewed through the atmo-            |               | P-531 helicopter                           |
|           | Explorer                                 |            | A flash of light produced in a phosphor          |               |  |
|           | UK satellites                            |            | nizing event. On a radar display, a rapid        |               | aunch vehicle                              |
|           | Ariel 4 satellite                        |            | t displacement of the target from its            | GS            | launch vehicles                            |
|           | Ariel 5 satellite                        | mean po    |  |               | . Scout launch vehicle                     |
|           | Miranda satellite                        | RT         | glint  |               | rocket vehicles                            |
|           | UK 4 satellite                           |            | phosphorescence                                  |               | . multistage rocket vehicles               |
|           | Aqua spacecraft                          |            | scintillating fibers                             | DT            | Scout launch vehicle                       |
|           | Aura spacecraft                          |            | seeing (astronomy)                               | RI            | Algol engine                               |
|           | CALIPSO (Pathfinder satellite) CloudSat  | scintilla  | tion counters                                    |               | Explorer 9 satellite Explorer 16 satellite |
|           | Glory Mission satellite                  |            | The combinations of phosphor, photo-             |               | Explorer 19 satellite                      |
|           | Ice, Cloud and Land Elevation            | multiplie  | r tube, and associated circuits for count-       |               | Explorer 20 satellite                      |
|           | Satellite                                |            | illations. Used for scintillators and scin-      |               | Explorer 22 satellite                      |
|           | Polar/GGS spacecraft                     | tillomete  | rs.  |               | Explorer 23 satellite                      |
|           | QuikSCAT satellite                       | UF         | scintillators                                    |               | Explorer 24 satellite                      |
|           | TRMM satellite                           |            | scintillometers                                  |               | Explorer 25 satellite                      |
|           | Upper Atmosphere Research                | GS         | measuring instruments                            |               | Explorer 27 satellite                      |
|           | Satellite (UARS)                         |            | . counters                                       |               | Explorer 30 satellite                      |
|           | Wind/GGS spacecraft                      |            | radiation counters                               |               | Explorer 37 satellite                      |
| RT        | Canadian space program                   |            | scintillation counters                           |               | Explorer 39 satellite                      |
|           | Cluster Mission                          |            | . radiation measuring instruments                |               | Explorer 40 satellite                      |
|           | EOS data and information system          |            | radiation counters                               |               | San Marco satellites                       |
|           | ESRO 4 satellite                         | RT         | scintillation counters anticoincidence detectors |               | solid propellant rocket engines            |
|           | SOHO Mission                             | KI         | Cerenkov counters                                |               | TX-354 engine                              |
|           | technology feasibility spacecraft        |            | neutron counters                                 |               | X-248 engine                               |
| scientif  | ic visualization                         |            | particle telescopes                              |               | X-254 engine                               |
|           | ed July 1993)                            |            | photomultiplier tubes                            |               | X-258 engines<br>X-259 engine              |
| UF        | data visualization                       |            | photopeak  |               | XM-33 engine                               |
| GS.       | information analysis                     |            | scintillating fibers                             |               | AW-55 engine                               |
|           | . scientific visualization               |            | · ·  | Scout p       | roject                                     |
|           | numerical flow visualization             |            | ion fibers                                       |               | programs                                   |
| RT        | computer graphics                        | USE        | scintillating fibers                             |               | . NASA programs                            |
|           | computerized simulation                  | scintillat | 0.40   |               | NASA space programs                        |
|           | display devices                          | USE        | ors<br>scintillation counters                    |               | Scout project                              |
|           | image processing                         | USL        | Schilliation counters                            |               | . projects                                 |
|           | Mission to Planet Earth                  | scintillor | neters   |               | Scout project                              |
|           | scene generation                         |            | scintillation counters                           |               | . space programs                           |
|           | software development tools               |            |  |               | NASA space programs                        |
| scientis  | ts                                       | scission   |  | DT            | Scout project                              |
| GS        | manpower                                 | USE        | cleavage   | KI≪           | boosters                                   |
|           | . scientists                             |            |  |               | Explorer satellites launch vehicles        |
|           | personnel                                | scoops     | air intakaa                                      |               | laurion veriloles                          |
|           | scientists                               | RT         | air intakes conveyors                            | SCDC to       | ransmission                                |
| RT        | awards                                   |            | ducts  | USE           |  |
|           | engineers                                |            | intake systems                                   | OOL           | transmission                               |
|           |  |            | nose inlets                                      |               | ti dilolliloololi                          |
|           | r aircraft                               |            | side inlets                                      | SCR (re       | ctifiers)                                  |
| UF        | Vickers Scimitar aircraft                | ~          | water intakes                                    |               | silicon controlled rectifiers              |
| GS        | attack aircraft                          |            |  |               |  |
|           | . fighter aircraft                       | scopolai   |  | ∞ SCRAM       | l  |
|           | Scimitar aircraft BAC aircraft           | USE        | hyoscine   | SN            | (USE OF A MORE SPECIFIC TERM IS            |
|           | . Scimitar aircraft                      | 00055      |  |               | RECOMMENDEDCONSULT THE TERMS               |
|           | iet aircraft                             |            | omnirange  | RT            | LISTED BELOW)<br>missiles                  |
|           | . Scimitar aircraft                      | USE        | self calibrating omnirange                       | 13.1          | shutdowns                                  |
|           | monoplanes                               | SCOPE      | satellite  |               | supersonic combustion ramjet               |
|           | . Scimitar aircraft                      |            | artificial satellites                            |               | engines                                    |
| RT ∘      | aircraft                                 |            | . SCORE satellite                                |               | Ü  |
|           |  |            |  | scramb        | ling (communication)                       |
| scintilla | ting fibers                              | scoring    |  | RT            | intelligibility                            |
|           | ed December 1992)                        | UF         | scribing   |               | security                                   |
| UF        | scintillation fibers                     | RT         | abrasion   |               | signal distortion                          |
| GS        | fibers                                   |            | defects  |               | signal encoding                            |
|           | . optical fibers                         |            | friction   |               | vocoders                                   |

|  | voice communication   |   | he axial and azimuthal components of   |   | monoplanes  |
|--|---|---|--|---|---|
| scramie                                  | t engines   |   | uum field are of the same size.  |   | . SE-210 aircraft   |
|  | supersonic combustion ramjet  | GS  | pinch effect . plasma pinch  |   | passenger aircraft . SE-210 aircraft  |
|  | engines   |   | screw pinch  |   | Sud Aviation aircraft   |
|  | _   | RT  | magnetic fields  |   | . SE-210 aircraft   |
| scramje                                  |   |   | magnetohydrodynamic flow   | RT •  | ∞ aircraft  |
| USE                                      | supersonic combustion ramjet engines  |   | plasma control   | CE 246  | O balicanter  |
|  | clightes  |   | reverse field pinch<br>theta pinch   |   | helicopter     Alouette 3 helicopter  |
| scrap                                    |   |   | zeta pinch   | Oi  | Sud Aviation SE-3160 helicopter   |
| RT                                       | chips   |   | 2014 \$11011   | GS  | Sud Aviation aircraft   |
|  | debris  | screws  |  |   | . Alouette helicopters  |
|  | metal particles wastes  | SN  | (EXCLUDES PROPELLERS AND CRYSTAL DEFECTS)  |   | . SE-3160 helicopter  |
|  | wastes  | GS  | fasteners  |   | V/STOL aircraft   |
| scraper                                  | s   |   | . screws   |   | . rotary wing aircraft helicopters  |
| RT                                       | cutters   | RT  | anchors (fasteners)  |   | Alouette helicopters  |
|  | files (tools)   |   | bolts  |   | SE-3160 helicopter  |
| ~  | honing<br>separation  |   | couplings<br>holders   |   |   |
|  | Coparation  |   | nuts (fasteners)   | SE-A  | Evalerar 20 catallita   |
| screech                                  | tones   |   | studs (structural members)   | USE   | Explorer 30 satellite   |
| ,  | ed March 1998)  |   | threads  | sea bre   | eeze  |
|  | Discrete acoustic tones produced by   | ooribing  |  | DEF   | A coastal, local wind that blows from   |
|  | atly expanded supersonic jets. The phe-<br>n is a result of a resonant feedback   | scribing  | scoring  |   | and caused by temperature differences   |
|  | n involving downstream traveling shear-   | UUL   | Scoring  |   | e sea surface is colder than the adjacent   |
|  | isturbances and upstream traveling  | scrubb  | ers  | land.   | wind (mateeralegy)  |
| acoustic                                 | waves.  | DEF   | Apparatus used in sampling and in gas  | GS  | wind (meteorology) . sea breeze   |
| GS                                       | elastic waves   | ,   | g in which the gas is passed through a   | RT  | aerology  |
|  | . sound waves   | space o   | containing wetted "packing" or spray. cleaning   |   | air currents  |
|  | noise (sound) flow noise  | KI  | columns (process engineering)  |   | atmospheric circulation   |
|  | aerodynamic noise   |   | flue gases   |   | barotropic flow   |
|  | screech tones   |   | washing  |   | climatology   |
|  | frequencies   |   | _  |   | geostrophic wind gusts  |
|  | acoustic frequencies  | scrubbi   |  |   | marine environments   |
| БТ                                       | screech tones   | USE   | washing  |   | meteorology   |
| RT                                       | aeroacoustics<br>feedback   | scrubs  | (botany)   |   | monsoons  |
|  | jet aircraft noise  |   | brush (botany)   |   | offshore energy sources   |
|  | jet mixing flow   |   |  |   | tidal waves   |
|  | nozzle flow   |   | n constellation  |   | wind direction<br>wind effects  |
|  | shear layers  | GS  | constellations   |   | wind enects<br>wind erosion   |
|  | supersonic jet flow   |   | . Scutum constellation   |   |   |
|  |   | RT  | zodiac   |   | wind measurement  |
|  | supersonic nozzles  | RT  | zodiac   |   | wind measurement windpower utilization  |
| screen                                   | supersonic nozzles  | RT<br><b>Scylla</b>   | zodiac   |   |   |
| screen ∈<br>RT ∝                         | supersonic nozzles  |   | plasma generators  | oo flo  | windpower utilization winds aloft   |
|  | supersonic nozzles  effect coma dielectrics   | <b>Scylla</b><br>GS   | plasma generators<br>. <b>Scylla</b>   |   | windpower utilization<br>winds aloft<br>or spreading  |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere   | Scylla  | plasma generators . Scylla magnetic fields   | (add  | windpower utilization<br>winds aloft<br>or spreading<br>led July 1992)  |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects   | <b>Scylla</b><br>GS   | plasma generators . Scylla magnetic fields magnetic mirrors  | <i>(add</i><br>DEF  | windpower utilization<br>winds aloft<br>or spreading  |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters  | <b>Scylla</b><br>GS   | plasma generators . Scylla magnetic fields   | (add<br>DEF<br>increasi<br>along th   | windpower utilization winds aloft  or spreading ed July 1992) A hypothesis that the oceanic crust is ing by convective upwelling of magma ne mid-ocean ridges or world rift system,   |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects   | <b>Scylla</b><br>GS   | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations  | (add<br>DEF<br>increasi<br>along th<br>and by   | windpower utilization winds aloft  or spreading  led July 1992)  A hypothesis that the oceanic crust is  ing by convective upwelling of magma  ne mid-ocean ridges or world rift system,  a moving-away of the new material at a  |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission  | <b>Scylla</b><br>GS<br>RT   | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions  | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of  | windpower utilization winds aloft  or spreading  led July 1992)  A hypothesis that the oceanic crust is  ling by convective upwelling of magma  le mid-ocean ridges or world rift system,  la moving-away of the new material at a  one to ten centimeters per year. This   |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas   | Scylla<br>GS<br>RT<br>SDP (co                                     | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions omputers)  | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movement                            | windpower utilization winds aloft  or spreading ed July 1992)  A hypothesis that the oceanic crust is ing by convective upwelling of magma he mid-ocean ridges or world rift system, a moving-away of the new material at a one to ten centimeters per year. This ent provides the source of dynamic  |
| RT ∝                                     | effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation   | Scylla<br>GS<br>RT<br>SDP (co                                     | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions  | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movement                            | windpower utilization winds aloft  or spreading  led July 1992)  A hypothesis that the oceanic crust is  ling by convective upwelling of magma  le mid-ocean ridges or world rift system,  la moving-away of the new material at a  one to ten centimeters per year. This   |
| RT ∞ ∞ ∞ screeni                         | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation  ng   | Scylla<br>GS<br>RT<br>SDP (co                                     | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions omputers)  | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movementhrust ir                    | windpower utilization winds aloft  or spreading ed July 1992) A hypothesis that the oceanic crust is ing by convective upwelling of magma ne mid-ocean ridges or world rift system, a moving-away of the new material at a one to ten centimeters per year. This ent provides the source of dynamic in the hypothesis of plate tectonics.   |
| RT ∝                                     | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation  ng (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  | Scylla<br>GS<br>RT<br>SDP (c<br>USE<br>SDS 90                     | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions omputers) site data processors   | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movementhrust in<br>UF              | windpower utilization winds aloft  or spreading ed July 1992) A hypothesis that the oceanic crust is ing by convective upwelling of magma me mid-ocean ridges or world rift system, a moving-away of the new material at a one to ten centimeters per year. This ent provides the source of dynamic in the hypothesis of plate tectonics.  ocean floor spreading Earth crust Earth mantle   |
| RT ∝ ∝ ∝ screeni SN                      | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation  ng (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | Scylla<br>GS<br>RT<br>SDP (c<br>USE<br>SDS 90                     | plasma generators . Scylla magnetic fields magnetic wariations plasmas (physics) thermonuclear reactions computers) site data processors data processing equipment . computers   | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movementhrust in<br>UF              | windpower utilization winds aloft  or spreading ed July 1992)  A hypothesis that the oceanic crust is ing by convective upwelling of magma he mid-ocean ridges or world rift system, a moving-away of the new material at a one to ten centimeters per year. This ent provides the source of dynamic in the hypothesis of plate tectonics.  ocean floor spreading Earth crust Earth mantle Earth movements  |
| RT ∞ ∞ ∞ screeni                         | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation  ng (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) filtration   | Scylla<br>GS<br>RT<br>SDP (c<br>USE<br>SDS 90                     | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions computers) site data processors data processing equipment . computers . digital computers  | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movementhrust in<br>UF              | windpower utilization winds aloft  or spreading ed July 1992)  A hypothesis that the oceanic crust is ing by convective upwelling of magma he mid-ocean ridges or world rift system, a moving-away of the new material at a one to ten centimeters per year. This ent provides the source of dynamic in the hypothesis of plate tectonics.  ocean floor spreading Earth crust Earth mantle Earth movements mid-ocean ridges   |
| RT ∝ ∝ ∝ screeni SN                      | supersonic nozzles  effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation  ng (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | Scylla<br>GS<br>RT<br>SDP (c<br>USE<br>SDS 90                     | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions  omputers) site data processors  0 series computers data processing equipment . computers . digital computers digital computers SDS 900 series computers   | (add<br>DEF<br>increasi<br>along th<br>and by<br>rate of<br>movementhrust in<br>UF              | windpower utilization winds aloft  or spreading  led July 1992)  A hypothesis that the oceanic crust is  ing by convective upwelling of magma  ne mid-ocean ridges or world rift system,  a moving-away of the new material at a  one to ten centimeters per year. This  ent provides the source of dynamic  note the hypothesis of plate tectonics.  ocean floor spreading  Earth crust  Earth mantle  Earth movements  mid-ocean ridges  neotectonics   |
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| RT ∞  ∞ screens SN  RT  ∞ screens SN  RT | effect coma dielectrics Earth magnetosphere effects electromagnetic wave filters electromagnetic wave transmission electron gas semiconductors (materials) wave propagation  mg (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) filtration fines louvers selection water treatment  G (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) curtains display devices protectors shielding sizing screens wire cloth  lislocations defects . crystal defects . crystal dislocations dislocations (materials) . crystal dislocations crystal dislocations dede dislocations edge dislocations edge dislocations edge dislocations edge dislocations   | Scylla GS RT  SDP (G USE SDS 90 GS  SDS 93 GS  SDS 93 GS          | plasma generators . Scylla magnetic fields magnetic mirrors magnetic variations plasmas (physics) thermonuclear reactions  computers) site data processors  site data processing equipment . computers . digital computers SDS 900 series computers SDS 930 computer  data processing equipment . computer SDS 930 computer  somputer  | (add DEF increasis along the and by rate of movem thrust in UF RT  sea gra GS RT  sea ice UF GS | windpower utilization winds aloft  or spreading ted July 1992)  A hypothesis that the oceanic crust is ing by convective upwelling of magma me mid-ocean ridges or world rift system, a moving-away of the new material at a one to ten centimeters per year. This ent provides the source of dynamic in the hypothesis of plate tectonics.  ocean floor spreading Earth crust Earth mantle Earth movements mid-ocean ridges neotectonics ocean bottom plates (tectonics) submarine hydrothermal vents tectonics terradynamics  asses  plants (botany) . grasses . sea grasses marine biology oceanography seaweeds vegetation wetlands  ice packs ice . ice floes . ice bergs . pressure ice |

|   | glacial drift   |   | tides  |  | . projects  |
|---|---|---|--|--|---|
|   | glaciers  |   | turbulence   |  | Seafarer project  |
|   | ice environments  |   | water currents   |  | extremely low frequencies   |
|   | ice formation   |   | water waves  |  | radio transmission  |
|   | ice mapping   |   | waterwave energy conversion  |  | submarines  |
|   | lake ice<br>land ice  |   | waterwave powered machines wind effects  |  | telecommunication underwater communication  |
|   | nunataks  |   | wind velocity  |  | underwater communication  |
|   | oceanography  |   | Wild Velocity  | seafloor                                 | hydrothermal vents  |
|   | polynyas  | sea sta   | tes  |  | ed April 2005)  |
|   | . , ,   | RT  | ocean models   | USE                                      | submarine hydrothermal vents  |
| sea kee   |   |   | ocean surface  |  |   |
|   | Maintaining the stability of a surface  |   | ocean temperature  |  | e helicopter  |
|   | n linear response to wave height, pitch,  |   | oceanographic parameters   | USE                                      | UH-34 helicopter  |
| neave,  | center of gravity, and bow acceleration.  |   | oceanography<br>sea level  | sealants                                 |   |
| IXI   | attitude gyros damping  |   | TOPEX  |  | sealers   |
|   | gyroscopic stability  |   | water currents   |  |   |
|   | gyrostabilizers   |   | water waves  | sealers                                  |   |
|   | motion stability  |   | wind effects   |  | sealants  |
| ۰   | stabilizers   |   | *  |  | adhesives   |
|   | torquers  |   | face temperature   |  | coatings<br>dopes   |
| Soo Kir   | g helicopter  | GS  | oceanographic parameters . ocean temperature   |  | fillers   |
|   | SH-3 helicopter   |   | sea surface temperature  |  | packaging   |
| UUL   | 311-3 Helicoptei  |   | surface properties   |  | packings (seals)  |
| Sea Kn  | ght helicopter  |   | . surface temperature  |  | paints  |
| USE   | CH-46 helicopter  |   | sea surface temperature  |  | sealing   |
|   |   |   | temperature  |  | seals (stoppers)  |
| sea lau   | •   |   | . surface temperature  |  | seams (joints)  |
| GS  | launching   |   | sea surface temperature  |  | solders   |
| RT  | . sea launching antiship missiles   |   | . water temperature  |  | varnishes   |
| KI  | antiship marfare  |   | ocean temperature sea surface temperature  | sealing                                  |   |
|   | ballistic missile submarines  | RT  | air water interactions   | _  | sealing   |
|   | catapults   | 111   | land surface temperature   |  | . self sealing  |
|   | drydocks  |   | ocean surface  | RT                                       | adhesion  |
|   | fleet ballistic missiles  |   | oceanography   |  | adhesive bonding  |
|   | missile launchers   |   |  |  | binding   |
|   | Poseidon missiles   | sea trut  |  |  | blocking  |
|   | rocket launchers  | RT  | aerial photography   |  | blowers<br>bonding  |
|   | torpedoes water takeoff and landing aircraft  |   | coastal currents   |  | brazing   |
|   | Zenit launch vehicles   |   | imagery<br>ocean surface   |  | caulking  |
|   | Zerik kaarien verileie  |   | ocean temperature  |  | cements   |
| sea law   |   |   | photointerpretation  |  | clamps  |
| DEF   | United Nations declaration regarding  |   |  |  |   |
|   |   |   |  |  | closing   |
| rights to   | minerals and other marine resources.  | sea urc   |  |  | coating   |
|   | minerals and other marine resources. law (jurisprudence)  | sea urc<br>GS   | animals  |  | coating coatings  |
| rights to   | minerals and other marine resources.<br>law (jurisprudence)<br>. international law  |   | animals . invertebrates  |  | coating<br>coatings<br>containment  |
| rights to<br>GS   | minerals and other marine resources. law (jurisprudence) . international law sea law  |   | animals  |  | coating<br>coatings<br>containment<br>coverings   |
| rights to<br>GS   | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation  | GS  | animals . invertebrates sea urchins  |  | coating<br>coatings<br>containment<br>coverings<br>encapsulating  |
| rights to<br>GS   | minerals and other marine resources. law (jurisprudence) . international law sea law  |   | animals . invertebrates sea urchins  |  | coating coatings containment coverings encapsulating glands (seals)   |
| rights to<br>GS   | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation  | GS<br>sea wal   | animals . invertebrates sea urchins  | ~  | coating<br>coatings<br>containment<br>coverings<br>encapsulating  |
| rights to<br>GS<br>RT •   | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations   | GS<br>sea wal   | animals . invertebrates sea urchins /s breakwaters   | 00                                       | coating coatings containment coverings encapsulating glands (seals) joining   |
| rights to<br>GS<br>RT •   | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation rules United Nations   | GS<br>sea wal<br>USE  | animals . invertebrates sea urchins //s breakwaters ter water  | ∞<br>∞                                   | coating coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing   |
| RT •  | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation rules United Nations   | sea wal<br>USE<br>sea wal   | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water   | ∞  | coating coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals)   |
| RT •  | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation rules United Nations el The level of the surface of the ocean; ly, the mean level halfway between high   | sea wal   | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines  | 00                                       | coating coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging  |
| rights to<br>GS<br>RT •<br>sea lev<br>DEF<br>especia<br>and low   | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations  In the level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning   | sea wal<br>USE<br>sea wal   | animals . invertebrates sea urchins /s breakwaters  ter water . sea water brines coastal water   | 00                                       | coating coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining  |
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| rights to<br>GS<br>RT •<br>sea lev<br>DEF<br>especia<br>and low<br>land ele<br>GS   | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation rules United Nations el The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface   | sea wal<br>USE<br>sea wal   | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature  | 00                                       | coating coatings coatings coatings coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing   |
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| sea leven DEF especia and low land else GS  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations el The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas   | sea wal<br>USE<br>sea wal   | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity   | ∞<br>∞<br>seals (a                       | coating coatings coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding   |
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| sea leverage of GS RT Sea of GS RT Sea of GS RT   | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations el  The level of the surface of the ocean; lly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Okhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.   | sea wal<br>USE<br>sea wal<br>GS<br>RT                                 | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermoclines thermoclines circulation underwater photography underwater resources water resources water sampling  | seals (al<br>GS<br>RT<br>seals (si       | coating coatings coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals mammals marine mammals seals (animals) marine biology  toppers) seals (stoppers)   |
| sea level DEF especial and low land elel GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea rout sea | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation rules United Nations  el  The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude sea level ocean surface oceanography sea states  Japan seas Sea of Japan Asia  Dkhotsk seas Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness   | sea wal<br>USE<br>sea wal<br>GS<br>RT                                 | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermohaline circulation underwater photography underwater resources water resources water sampling gium ed May 1998)   | seals (al<br>GS<br>RT<br>seals (si       | coating coatings coatings coatings coatings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals wertebrates mammals marine mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals  |
| sea level DEF especial and low land elel GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea of GS RT Sea rout sea | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations el The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Okhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R. ghness roughness . sea roughness hydrodynamic coefficients  | sea wal<br>USE<br>sea wal<br>GS<br>RT                                 | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermoclines thermohaline circulation underwater photography underwater resources water resources water sampling  gium and May 1998) chemical elements . seaborgium bohrium   | seals (al<br>GS<br>RT<br>seals (st       | coating coatings coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals vertebrates mammals marine mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals . glands (seals) . hermetic seals  |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations el  The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Dikhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness roughness hydrodynamic coefficients ocean models  | sea wal<br>USE<br>sea wal<br>GS<br>RT                                 | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermoclines thermoclines thermoclines thermoclines water resources water resources water resources water resources water resources water sampling  gium ed May 1998) chemical elements . seaborgium  | seals (a<br>GS<br>RT<br>seals (s         | coating coatings coatings coatings coatings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals marine mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals . glands (seals) . labyrinth seals . labyrinth seals   |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law sea law cooperation international cooperation rules United Nations  el  The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Dkhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness roughness hydrodynamic coefficients ocean models ocean surface  | sea wal<br>USE<br>sea wal<br>GS<br>RT                                 | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermohaline circulation underwater photography underwater resources water resources water sampling  gium ed May 1998) chemical elements . seaborgium bohrium dubnium   | seals (al<br>GS<br>RT<br>seals (si<br>GS | coating coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packings packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals marine mammals marine mammals marine biology  toppers) seals (stoppers) . brush seals . gaskets . glands (seals) . hermetic seals . labyrinth seals . O ring seals   |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations  In the level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Dkhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness roughness . sea roughness hydrodynamic coefficients ocean models ocean surface oceanography  | sea wal<br>USE<br>sea wal<br>GS<br>RT<br>seaborg<br>(add)<br>GS<br>RT | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermohaline circulation underwater photography underwater resources water resources water resources water resources water sampling  gium ed May 1998) chemical elements . seaborgium bohrium dubnium  er project   | seals (al<br>GS<br>RT<br>seals (si       | coating coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals marine mammals marine mammals marine biology  toppers) seals (stoppers) . brush seals . gaskets . glands (seals) . labyrinth seals . O ring seals . packings (seals)   |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations  el The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Okhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness roughness . sea roughness hydrodynamic coefficients ocean models ocean surface oceanography surface oceanography surface waves           | sea wal<br>USE<br>sea wal<br>GS<br>RT                                 | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines | seals (all GS RT seals (si               | coating coatings coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals retrebrates mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals . gaskets . glands (seals) . hermetic seals . labyrinth seals . O ring seals . packings (seals) . plugs                            |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations  al  The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Okhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness roughness hydrodynamic coefficients ocean models ocean surface oceanography surface waves tidal waves                                   | sea wal<br>USE<br>sea wal<br>GS<br>RT<br>seaborg<br>(add)<br>GS<br>RT | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermoclines thermohaline circulation underwater photography underwater resources water resources water sampling  gium ed May 1998) chemical elements . seaborgium bohrium dubnium  ter project Global Communications Antenna Grid (navy)   | seals (al<br>GS<br>RT<br>seals (si       | coating coatings coatings coatings coatings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals marine mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals . glands (seals) . hermetic seals . labyrinth seals . O ring seals . packings (seals) . plugs . pump seals   |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations el  The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Dkhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R. ghness roughness hydrodynamic coefficients ocean models ocean surface oceanography surface waves tidal waves tidal waves tide powered generators | sea wal<br>USE<br>sea wal<br>GS<br>RT<br>seaborg<br>(add)<br>GS<br>RT | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines | seals (al<br>GS<br>RT<br>seals (si<br>GS | coating coatings coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals retrebrates mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals . gaskets . glands (seals) . hermetic seals . labyrinth seals . O ring seals . packings (seals) . plugs                            |
| sea leven DEF especial and low land ele GS RT Sea of GS RT Sea of GS RT Sea rouggs  | minerals and other marine resources. law (jurisprudence) . international law . sea law cooperation international cooperation rules United Nations  al  The level of the surface of the ocean; ly, the mean level halfway between high tide used as a standard in reckoning vation or sea depths. altitude . sea level ocean surface oceanography sea states  Japan seas . Sea of Japan Asia  Okhotsk seas . Sea of Okhotsk Pacific Ocean U.S.S.R.  ghness roughness hydrodynamic coefficients ocean models ocean surface oceanography surface waves tidal waves                                   | sea wal<br>USE<br>sea wal<br>GS<br>RT<br>seaborg<br>(add)<br>GS<br>RT | animals . invertebrates sea urchins  Is breakwaters  ter water . sea water brines coastal water dissolved organic matter fisheries marine resources nearshore water ocean surface ocean temperature oceanography red tide salinity seaweeds thermoclines thermohaline circulation underwater photography underwater resources water sampling gium ed May 1998) chemical elements . seaborgium bohrium dubnium  er project Global Communications Antenna Grid (navy) underground radio antenna grid   | seals (al<br>GS<br>RT<br>seals (si<br>GS | coating coatings coatings coatings coatings containment coverings encapsulating glands (seals) joining lining processes moisture resistance packing packings (seals) plugging retaining riveting sealers soldering spraying stopping waterproofing welding  nimals) animals marine mammals seals (animals) marine biology  toppers) seals (stoppers) . brush seals . gaskets . glands (seals) . hermetic seals . labyrinth seals . O ring seals . packings (seals) . plugs . pump seals air locks |

|         | 11.12                                 |       | P. Le                                 |         | 0540474                                 |
|---------|---------------------------------------|-------|---------------------------------------|---------|---|
|         | blocking                              |       | runway lights                         |         | SEASAT 1                                |
| ٥       | ∞ caps                                |       |                                       |         | -1                                      |
|         | closures                              |       |                                       |         | al variations                           |
|         | constrictions                         | seas  | Inland hadise of calt water or acc    | USE     | annual variations                       |
|         | cuffs                                 | DEF   | Inland bodies of salt water or geo-   |         | _                                       |
|         | plugging                              | • .   | divisions of oceans or ocean areas of | season  |   |
|         | sealers                               |       | eneration.                            | GS      |   |
|         | spherical caps                        | GS    | seas                                  |         | . autumn                                |
| ۰       | ∞ tapes                               |       | . Arabian Sea                         |         | . spring (season)                       |
|         | valves                                |       | . Baltic sea                          |         | . summer                                |
|         |                                       |       | . Barents Sea                         |         | . winter                                |
| seamou  |                                       |       | . Beaufort Sea (North America)        | RT      | annual variations                       |
| DEF     | 3                                     |       | . Bering Sea                          |         | climatology                             |
|         | 000-1000 feet or more with the summit |       | . Black Sea                           |         | crop calendars                          |
|         | 000-6000 feet below sea level.        |       | . Caribbean Sea                       |         | equinoxes                               |
| RT      | continental shelves                   |       | . Caspian Sea                         |         | meteorology                             |
|         | crevasses                             |       | . Chukchi Sea                         |         | solar position                          |
| ۰       | ∞ faults                              |       | . Mediterranean Sea                   |         | solstices                               |
|         | folds (geology)                       |       | Adriatic Sea                          |         | weather                                 |
|         | islands                               |       | . North Sea                           |         | wind variations                         |
|         | landforms                             |       | . Red Sea                             |         |   |
|         | mid-ocean ridges                      |       | . Salton Sea (CA)                     | Seaspri | ite helicopter                          |
|         | ocean bottom                          |       | . Sea of Japan                        |         | UH-2 helicopter                         |
|         | structural basins                     |       | . Sea of Okhotsk                      |         |   |
|         | Structural pasitis                    | RT    | archipelagoes                         | seat be | lts                                     |
| seams   | (ioints)                              | 13.1  | coastal currents                      | DEF     | Safety belts that fasten across the lap |
|         |                                       |       |                                       | GS      | safety devices                          |
| GS      | joints (junctions)                    |       | coasts                                | 00      | . seat belts                            |
| D.T.    | . seams (joints)                      |       | deep water                            | DT      | . seat beits<br>∞ belts                 |
| RT      | adhesives                             |       | Earth hydrosphere                     | KI o    |   |
|         | fillets                               |       | ocean temperature                     |         | harnesses                               |
|         | metal joints                          |       | oceanography                          |         | seats                                   |
|         | sealers                               |       | oceans                                |         |   |
|         |                                       |       | Sargasso Sea                          | seats   |   |
| seaplar | nes                                   |       | seaweeds                              | UF      | benches                                 |
| GS      | water takeoff and landing aircraft    |       | shallow water                         |         | chairs                                  |
|         | . seaplanes                           |       | shoals                                | GS      | seats                                   |
| RT      | amphibious aircraft                   |       | straits                               |         | . Barany chair                          |
|         | amphibious vehicles                   |       | thermal pollution                     |         | ejection seats                          |
|         | hulls (structures)                    |       | underwater photography                |         | flying ejection seats                   |
|         | monoplanes                            |       | underwater priotography               | RT      | comfort                                 |
|         | monopianes                            |       |                                       |         | couches                                 |
| Sparch  | and Rescue Satellite                  | SEASA | T 4                                   |         | cushions                                |
| USE     | SarSat                                |       |                                       |         | harnesses                               |
| USL     | SaiSai                                | GS    | artificial satellites                 |         |   |
| Caarab  | for Futuatorrostrial Intelligence     |       | . SEASAT satellites                   |         | olounges                                |
|         | for Extraterrestrial Intelligence     |       | SEASAT 1                              |         | riding quality                          |
| USE     | Project SETI                          | RT    |                                       |         | seat belts                              |
|         |                                       |       | oceanography                          |         | sitting position                        |
|         | profiles                              |       | programs                              |         |   |
| GS      | searching                             |       | SEASAT-B satellite                    |         | wing Wide Field-of-view Sensor          |
|         | search profiles                       |       |                                       | •       | ed December 1998)                       |
| RT      | data retrieval                        |       |                                       | UF      | SeaWiFS                                 |
|         | information retrieval                 | SEASA | T program                             | GS      | scanners                                |
| ۰       | ∞ profiles                            | GS    |                                       |         | . ocean color scanner                   |
|         |                                       |       | . NASA programs                       |         | Sea-viewing Wide Field-of-view          |
| search  | radar                                 |       | NASA space programs                   |         | Sensor                                  |
| GS      | radar                                 |       | Earth Resources Program               | RT      | chlorophylls                            |
|         | . search radar                        |       | Earth Resources Survey                |         | Coastal Zone Color Scanner              |
|         | over-the-horizon radar                |       | Program                               |         | ocean surface                           |
| RT      | airport surface detection equipment   |       | SEASAT program                        |         | phytoplankton                           |
|         | coherent radar                        |       | . space programs                      |         | remote sensors                          |
|         | continuous wave radar                 |       | NASA space programs                   |         | satellite-borne instruments             |
|         | pulse radar                           |       | Earth Resources Program               |         | water color                             |
|         | radar detection                       |       | Earth Resources Survey                |         | Water color                             |
|         | radar tracking                        |       | •                                     | seawee  | nde                                     |
|         | satellite-borne radar                 |       | Program                               | UF      | kelp                                    |
|         | side-looking radar                    | D.T.  | SEASAT program                        | RT      | •                                       |
|         |                                       | RT    | Landsat satellites                    | KI      | marine biology                          |
|         | surveillance radar                    |       | oceanography                          |         | oceanography                            |
|         | tracking radar                        |       |                                       |         | oceans                                  |
|         | TRADEX radar system                   |       |                                       |         | sea grasses                             |
|         |                                       | SEASA | T satellites                          |         | sea water                               |
| searchi | ing                                   | GS    | artificial satellites                 |         | seas                                    |
| GS      | searching                             |       | . SEASAT satellites                   |         |   |
|         | . search profiles                     |       | SEASAT 1                              | SeaWiF  | <del>-</del> S                          |
| RT      | conical scanning                      |       | SEASAT-B satellite                    | (adde   | ed December 1998)                       |
|         | COSPAS                                | RT    | Landsat satellites                    | USE     | Sea-viewing Wide Field-of-view          |
|         | panoramic scanning                    |       | NASA programs                         |         | Sensor                                  |
|         | reconnaissance                        |       | oceanography                          |         |   |
|         | retrieval                             |       | programs                              | sebace  | ous glands                              |
|         | SarSat                                |       | . •                                   |         | anatomy                                 |
|         |                                       |       | satellite altimetry                   | 55      | . glands (anatomy)                      |
|         | scanning                              |       | Synchronous Earth Observatory         |         |   |
|         | selection                             |       | satellite                             |         | sebaceous glands                        |
| 000-1   | liahta                                |       |                                       | cak '   | agid                                    |
| searchl |                                       | 05401 | T.D. cotollite                        | sebacio |   |
| GS      | lighting equipment                    |       | T-B satellite                         | GS      | acids                                   |
|         | . luminaires                          | GS    | artificial satellites                 |         | . carboxylic acids                      |
|         | searchlights                          |       | . SEASAT satellites                   |         | fatty acids                             |
| RT      | airport lights                        |       | SEASAT-B satellite                    |         | sebacic acid                            |
|         |                                       |       |                                       |         |   |
|         | arc lamps                             | RT    | Landsat satellites                    |         | organic compounds                       |
|         |                                       | RT    | Landsat satellites oceanography       |         | organic compounds . carboxylic acids    |
|         | arc lamps                             | RT    |                                       |         |   |

... sebacic acid RT discrete address beacon system sediments interrogation secondary batteries sedimentary rocks Rocks resulting from the consolidation USE storage batteries secondary waves of loose sediments that have accumulated in USE S waves layers, e.g., clastic rocks (such as fragments of secondary cosmic rays DEF Secondary emission in the atmosphere stimulated by primary cosmic rays. Used secretions older rocks transported from their source and GS secretions deposited in water or from air or ice. Sedimenendocrine secretions for Moliere formula. tary rocks constitute one of the three main . . hormones UF Moliere formula classes into which rocks are divided, the others . . . corticosteroids GS ionizing radiation being igneous rocks and metamorphic rocks. . . . . aldosterone . cosmic rays GS rocks . secondary cosmic rays . . . . hydroxycorticosteroid . sedimentary rocks . . . . . cortisone . . carbonaceous rocks atmospheric radiation . glucocorticoids cosmic ray albedo . . . coal . . . . anthracite cosmic ray showers estrogens electron decay rate hypertensin . . . . lignite . . . . solvent refined coal electron photon cascades pituitary hormones .... adrenocorticotropin (ACTH) . . limestone electron precipitation primary cosmic rays ... vasopressins . . sandstones ... prostaglandins single event upsets . . shales . . . thyroxine alluvium secondary emission . . insulin breccia Émission of subatomic particles of sweat clavs photons stimulated by primary radiation; for ex-RT body fluids dolomite (mineral) ample, cosmic rays impinging on other particles gall avpsum and causing them, by disruption of their electron glands (anatomy) igneous rocks configurations or even of their nuclei, to emit hydrogen metabolism ∞ layers particles or photons or both in turn. melatonin monazite sands emission metabolism petrography . particle emission mineral metabolism sands . . electron emission skin (anatomy) sediments . . secondary emission shatter cones sections dynodes soils (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN electron irradiation stratigraphy field emission monoscopes sediments RT categories multipactor discharges Solid fragmental materials that origiclasses nate from weathering of rocks and are transphotomultiplier tubes subdivisions ported or deposited by air, water, or ice, or that accumulate by other natural agents, such as scanning electron microscopy subsidiaries Townsend avalanche chemical precipitation from solution or secretion ∞ sectors secondary flow (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) by organisms, and that form in layers on the SN Earth's surface at ordinary temperatures in a loose, unconsolidated form; e.g., sand, gravel, GS fluid flow . parallel flow area . . three dimensional flow silt, mud, till, loess, and alluvium. circles (geometry) . secondary flow HF silts regions . viscous flow GS sediments . . boundary layer flow . gravels secular perturbation ... secondary flow . mud USE long term effects translational motion . sands . three dimensional motion . . monazite sands secular variations . . three dimensional flow . tar sands GS variations .. secondary flow . periodic variations RT alluvium . . secular variations atmospheric physics compressibility effects clays corner flow deposition deposits three dimensional boundary layer solar activity effects vortices dissolved organic matter solar cycles vorticity dredged materials teleconnections (meteorology) fans (landforms) secondary injection glacial drift security injection grit security GS secondary injection . airport security littoral drift fluid injection . computer security marine chemistry shock wave control . . computer information security ocean bottom shock wave propagation . . firewalls (computers) peat supersonic flow intrusion detection (computers) sediment transport thrust augmentation RT ∞ classifying sedimentary rocks thrust vector control sewage treatment computer program integrity sludae crime secondary ion mass spectrometry soil pollution integrity (added July 1991) police DEF Mass spectrometry performed on ions SEE (software engineering environments) privacy sputtered from a sample by a primary ion beam. USE programming environments scrambling (communication) SIMS (spectrometry) selective dissemination of information GS spectroscopy Seebeck coefficient steganography . mass spectroscopy USE Seebeck effect terrorism secondary ion mass vulnerability spectrometry Seebeck effect RT mass spectrometers DEF The establishment of an electric potensedatives tial difference tending to produce a flow of GS drugs current in a circuit of two dissimilar metals the secondary radar sedatives A radar technique or mode of operation junctions of which are at different temperatures. pentobarbital

phenobarbital

tranquilizers

mass flow

mass transfer

sediment transport

psychotropic drugs

in which the return signals are obtained from beacons, transponders, or repeaters carried by

the targets, contrasted with primary radar in

which the return signals are obtained by reflec-

. secondary radar

tion from the targets.

radar

GS

851

Used for Seebeck coefficient.

Peltier effects

RT ∞ effects

Seebeck coefficient

temperature effects thermocouples

thermodynamic properties

# seedlings (botany)

|           | 0 1 0 2 9                               |          |  |                 | E 41                                |
|-----------|---|----------|--|-----------------|-------------------------------------|
|           | thermoelectricity                       |          | lines (geometry)                             |                 | Earth movements                     |
|           | thermophysical properties               |          | radii  |                 | Earth sciences                      |
|           | transport properties                    |          |  |                 | earthquake damage                   |
|           |   | Seare    | characteristic                               |                 | earthquakes                         |
| saadina   | (inoculation)                           |          | ∞ characteristics                            |                 | •                                   |
|           |   | IXI V    |  |                 | geology                             |
| USE       | inoculation                             |          | crack propagation                            |                 | geophysics                          |
|           |   |          | metal fatigue                                |                 | isostasy                            |
| seedling  | gs (botany)                             |          |  |                 | large aperture seismic array        |
|           | ed August 2004)                         | segrega  | ation  |                 |                                     |
| ,         | ,                                       |          |  |                 | lunar geology                       |
|           | A very young plant after germination of | USE      | separation                                   |                 | mid-ocean ridges                    |
| seeds.    |   |          |  |                 | Rouse belts                         |
| GS        | plants (botany)                         | seismi   | c energy                                     | 00              | ∘ science                           |
|           | . seedlings (botany)                    |          | earthquake damage                            |                 |                                     |
|           | • |          |  |                 | seismic waves                       |
|           | plant physiology                        | •        | ∞ energy                                     |                 | subduction (geology)                |
|           | plant roots                             |          | strain energy methods                        |                 | tidal waves                         |
|           | seeds                                   |          | •  |                 | iliaai iliaa oo                     |
|           | 0000                                    | saismi   | c waves                                      | aaiamaa         | m a ta va                           |
|           |   |          |  | seismor         |                                     |
| seeds     |   |          | The disturbance of earth tremors pro-        | USE             | seismographs                        |
| RT        | alfalfa                                 | duced l  | by a mechanical disturbance on the sur-      |                 |                                     |
|           | barley                                  | face or  | underground. Used for electroseismic         | seizure         | s                                   |
|           | citrus trees                            | effect.  |  |                 |                                     |
|           |   |          | -1tiiitt                                     | KI              | convulsions                         |
|           | corn                                    | UF       | electroseismic effect                        |                 | cramps                              |
|           | embryos                                 | GS       | elastic waves                                |                 |                                     |
|           | farm crops                              |          | . seismic waves                              | SEL co          | mputers                             |
|           |   |          | Love waves                                   |                 |                                     |
|           | grains (food)                           |          |  | GS              | data processing equipment           |
|           | nuts (fruits)                           |          | microseisms                                  |                 | . computers                         |
|           | oats                                    |          | Rayleigh waves                               |                 | digital computers                   |
|           | planting                                | RT       | crustal fractures                            |                 | SEL computers                       |
|           |   | I. I.    |  |                 | JEL Computers                       |
|           | plants (botany)                         |          | detonation waves                             |                 |                                     |
|           | seedlings (botany)                      |          | dilatational waves                           | selection       | on                                  |
|           |   |          | Earth movements                              | UF              | choice                              |
|           | sugar beets                             |          |  |                 |                                     |
|           | sugar cane                              |          | earthquake damage                            | GS              | selection                           |
|           | tomatoes                                |          | earthquake resistance                        |                 | . personnel selection               |
|           | utricle                                 |          | earthquake resistant structures              |                 | pilot selection                     |
|           |   |          |  |                 |                                     |
|           | vegetables                              |          | earthquakes                                  |                 | . materials selection               |
|           | viability                               |          | Gutenberg zone                               |                 | . site selection                    |
|           | ··· •                                   |          | large aperture seismic array                 | RT              | certification                       |
| ! /       | (t)                                     |          |  |                 |                                     |
|           | (astronomy)                             |          | longitudinal waves                           | 00              | ∘ classifying                       |
| (adde     | ed July 1989)                           |          | P waves                                      |                 | collection                          |
| UF        | atmospheric seeing                      |          | planetary quakes                             |                 | decisions                           |
|           |   |          |  |                 |                                     |
|           | astronomical observatories              |          | polarized elastic waves                      |                 | evaluation                          |
|           | astronomy                               |          | S waves                                      |                 | figure of merit                     |
|           | atmospheric effects                     |          | seismology                                   |                 | options                             |
|           | atmospheric optics                      |          | SH waves                                     |                 | ranking                             |
|           |   |          |  |                 |                                     |
|           | atmospheric turbulence                  |          | shock waves                                  |                 | rejection                           |
|           | optical correction procedure            |          | surface waves                                |                 | sampling                            |
|           | scintillation                           |          | tsunami waves                                |                 |                                     |
|           |   |          |  | •               | screening                           |
|           | space observations (from Earth)         |          | underground explosions                       |                 | searching                           |
|           | telescopes                              |          | ∞ waves                                      |                 | sorting algorithms                  |
|           | turbulence effects                      |          |  | 00              | ∘ tests                             |
|           | tarbalorido directo                     | eniema   | cardiography                                 |                 | - 10010                             |
| ,         |   |          |  |                 | 1 ( 1 1                             |
| seekers   |   |          | The measurement of the high fre-             | selectio        | on rules (nuclear physics)          |
| USE       | homing devices                          | quency   | vibrations of the heart.                     | GS              | rules                               |
|           | •                                       | ' GS     | bioengineering                               |                 | . selection rules (nuclear physics) |
|           |   | 00       |  | DT              |                                     |
| seepage   |   |          | . biometrics                                 | RT              | alpha decay                         |
| RT        | canals                                  |          | cardiography                                 |                 | emission                            |
|           | drainage                                |          | seismocardiography                           |                 | forbidden transitions               |
|           |   | БТ       |  |                 |                                     |
|           | flood damage                            | RT       | ballistocardiography                         |                 | neutron emission                    |
|           | flow nets                               |          | fibrillation                                 | 00              | ∘ physics                           |
|           | hydrodynamics                           |          |  |                 | quantum numbers                     |
|           | intrusion                               | seismo   | agrams                                       |                 | 1                                   |
|           |   |          |  | 1               | a diagonination of lefe continu     |
|           | irrigation                              | KI       | seismographs                                 | selectiv        | re dissemination of information     |
|           | leakage                                 |          |  | GS              | communicating                       |
|           | losses                                  | seismo   | graphs                                       |                 | . information dissemination         |
|           |   |          | seismometers                                 |                 | selective dissemination of          |
|           | offshore energy sources                 |          |  |                 |                                     |
|           | penetration                             | GS       | measuring instruments                        |                 | information                         |
|           | percolation                             |          | . vibration meters                           | RT              | computer information security       |
|           |   |          |  |                 | data storage                        |
|           | permeability                            |          | seismographs                                 |                 |                                     |
|           | piezometers                             |          | lunar seismographs                           |                 | documentation                       |
|           | water consumption                       |          | recording instruments                        |                 | indexes (documentation)             |
|           |   |          | . seismographs                               |                 | information flow                    |
|           | to the state of                         |          |  |                 |                                     |
| _         | ted mirrors                             |          | lunar seismographs                           |                 | information retrieval               |
| (adde     | ed August 1995)                         | RT       | accelerometers                               |                 | information systems                 |
|           | Telescope mirrors made up of many       |          | acoustic measurement                         |                 | libraries                           |
|           |   |          |  |                 |                                     |
|           | in, glass segments. Motorized control-  |          | phased arrays                                |                 | management planning                 |
| Iers keep | the segments optically aligned to form  |          | seismograms                                  |                 | security                            |
|           | large mirror.                           |          | shock measuring instruments                  |                 | technology transfer                 |
|           |   |          |  |                 |                                     |
|           | mirrors                                 |          | tiltmeters                                   |                 |                                     |
|           | . segmented mirrors                     |          |  | selectiv        | re fading                           |
|           | adaptive optics                         | seismo   | logy   |                 | fading                              |
|           |   |          |  | 00              |                                     |
|           | astronomical observatories              | DEF      |  |                 | signal fading                       |
|           | deformable mirrors                      | sion, th | e structure of the interior of the Earth via |                 | selective fading                    |
|           | honeycomb mirrors                       | hoth no  | atural and artificially generated seismic    | RT              | frequency analyzers                 |
|           |   |          |  | 17.1            |                                     |
|           | optical correction procedure            | signals  |  |                 | ground wave propagation             |
|           | reflecting telescopes                   | GS       | seismology                                   |                 | modulation                          |
|           |   |          |  |                 | sidebands                           |
|           |   |          | . asteroseismology                           |                 |                                     |
| ecar      | te                                      |          | . asteroseismology                           |                 |                                     |
| segmen    |   |          | . moonquakes                                 |                 | signal fading rate                  |
|           | ts<br>circles (geometry)                |          |  |                 |                                     |
| RT        | circles (geometry)                      | RT       | . moonquakes helioseismology                 | selectiv        | signal fading rate                  |
| RT ∞      |   | RT       | . moonquakes                                 | selectiv<br>DEF |                                     |

spectral optical properties, such as reflectance, lunar landing sites servomechanisms absorptance, emittance, or transmittance vary lunar maps significantly with wavelength. Such properties lunar mobile laboratories self assembly are of interest in solar energy applications. Used lunar ravs (added January 2001) for solar selective coatings. Coordinated action of independent lunar rocks solar selective coatings units to produce a larger structure or to achieve lunar topography energy absorption films a desired group effect. A strategy for nanofabrimoon selectivity selenology cation that involves designing molecules and solar collectors surface properties supramolecular entities so that shapesolar energy absorbers complementarity or other properties causes thermochromic coatings selenology them to aggregate into desired structures. That branch of astronomy that treats of GS assembling the moon, its magnitude, motion, constitution, . self assembly selectivity discrimination and the like. Selene is Greek for moon. RT abiogenesis photothermal conversion RT astronomy ∞ assembly lunar composition chemical evolution selective surfaces lunar core fabrication selectors lunar craters micelles analyzers lunar crust RT molecular biology circuits lunar dust molecular structure electric relays lunar echoes monomolecular films samplers lunar eclipses nanofabrication switches lunar effects nanostructure (characteristics) nanotechnology switching circuits lunar environment lunar equator synthesis (chemistry) selenides lunar evolution self calibrating omnirange UF SCORE omnirange GS chalcogenides lunar exploration . selenides lunar far side GS navigation aids . . cadmium selenides lunar figure lunar geology lunar gravitation . . copper selenides . beacons . . radio beacons . . . copper indium selenides lunar gravitational effects lunar limb . . . omnidirectional radio ranges . . gallium selenides . self calibrating omnirange . . indium selenides . copper indium selenides lunar luminescence lunar magnetic fields radio equipment . . lead selenides . radio transmitters . zinc selenides lunar mantle . . radio beacons selenium compounds . . . omnidirectional radio ranges lunar maria . selenides lunar occultation ... self calibrating omnirange . . cadmium selenides lunar phases transmitters . . copper selenides lunar radar echoes . radio transmitters ... copper indium selenides lunar radiation . . radio beacons gallium selenides ... omnidirectional radio ranges lunar rocks . . indium selenides
. . . copper indium selenides
. lead selenides lunar rotation . self calibrating omnirange lunar seismographs RT solar compasses lunar shadow . . zinc selenides lunar soil self consistent fields lunar surface SCF selenium computational chemistry lunar temperature chemical elements GS lunar tides field theory (physics) selenium lunar topography ∞ fields RT selenium isotopes Hartree approximation moon magnetic fields moonquakes selenium alloys regolith molecular orbitals GS allovs selenography quantum electrodynamics selenium alloys shell theory RT copper self absorption GS energy absorption self deploying space stations selenium compounds . radiation absorption self erecting devices GS selenium compounds . self absorption space stations . selenides RT ∞ absorption . . cadmium selenides self diffusion (solid state) absorption spectra . . copper selenides absorptivity DEF The spontaneous movement of an . copper indium selenides automatic control atom to a new site in a crystal of its own species. . . gallium selenides diffusion diffusion . . indium selenides . self diffusion (solid state) □ radiation . . . copper indium selenides RT atomic mobilities .. lead selenides self adaptive control systems ionic diffusion . . zinc selenides DEF Particular types of stability augmentamolecular diffusion selenium oxides tion systems which change the responses of particle diffusion RT ∞ chemical compounds given control inputs by constantly sampling re-sponses and adjusting their gain, rather than self erecting devices having fixed or selective gain systems. UF self deploying space stations selenium isotopes automatic control RT ∞ automation GS chemical elements . adaptive control ∞ devices . nuclides ∞ equipment self adaptive control systems . . isotopes active control inflatable spacecraft .. selenium isotopes adaptive optics inflatable structures selenium automata theory orbital assembly space erectable structures autonomy selenium oxides ∞ control ∞ systems GS chalcogenides self excitation . oxides GS excitation selenium oxides self alignment self excitation selenium compounds alignment forced vibration GS selenium oxides self alignment free vibration

active control

landing gear

selenography

geography

lunar crust

lunar craters

adaptive control

automatic control

model reference adaptive control

oscillators

resonators

self focusing

GS focusing

self focusing support systems thin films image contrast ∞ machinery self shadowing semiconductor devices optical correction procedure large space structures Electron devices in which the characoptical measuring instruments shadows teristic distinguishing electronic conduction solar arrays takes place within semiconductors. self ignition (added April 1997) USE spontaneou GS electronic equipment self stimulation . solid state devices spontaneous combustion motivation . . semiconductor devices reinforcement (psychology) ... avalanche diodes self induced vibration . . . . cryosar GS vibration self subtraction holography . structural vibration . . . Barritt diodes USE holographic subtraction .. self induced vibration . . . charge transfer devices bucket brigade devices . . . panel flutter ... subsonic flutter self sustained emission . . . . charge coupled devices emission GS . charge injection devices ... supersonic flutter self sustained emission . . . germanium diodes . transonic flutter electron emission . . . heterojunction devices RT bending vibration light emission . . . . high electron mobility transistors flutter particle emission . MODFETS forced vibration stimulated emission ... junction diodes free vibration . MIM diodes missile vibration . . . . step recovery diodes pilot induced oscillation self tests ... light emitting diodes Programmed functions performed by a random vibration torsional vibration machine, either automatically at start-up or on . . . metal oxide semiconductors user demand, that test the working order of the CMOS self initiated antiaircraft missiles . . . . ITO (semiconductors) machine. In particular, programs stored in read-SOS (semiconductors) SIAM missiles only memory that test the integrity of a ma-MIM (semiconductors) chine's integrated circuits and the connections self lubricating materials MIS (semiconductors) between the circuits and the devices they conimpregnating MOM (semiconductors) lubrication RT MSM (semiconductors) automatic test equipment ∞ materials avionics NDM semiconductor devices solid lubricants neuristors checkout spacecraft lubrication electronic equipment tests parametric diodes fail-safe systems photodiodes self lubrication ... photovoltaic cells GS lubrication . . . . solar cells self lubrication . vertical junction solar cells Selsyns (trademark) impregnating Schottky diodes USE servomotors . . . semiconductor lasers self maneuvering units ... aluminum gallium arsenide SEM (microscopy) personnel propulsion systems lasers USE scanning electron microscopy reaction jet backpacks ... gallium arsenide lasers SMU (maneuvering units) . . . . quantum cascade lasers space self maneuvering units semantics . . . . quantum well lasers self maneuvering units linguistics GS YLF lasers . IMLSS semantics ... SOI (semiconductors) astronaut maneuvering equipment communication theory thermistors extravehicular activity grammars . . . thyristors extravehicular mobility units languages . silicon controlled rectifiers maneuvers message processing . . . transferred electron devices manned maneuvering units messages transistor amplifiers natural language processing . . . transistors self organizing systems nomenclatures bipolar transistors orthography parsing algorithms predicate logic perceptrons ... field effect transistors artificial intelligence . . . . . charge flow devices machine learning . . . . . JFEŤ ∞ systems psycholinguistics . MODFETS Turing machines sentences . . . . high electron mobility transistors . . . . MODFETS speech self oscillation syllables junction transistors GS oscillations symbols . JFFT self oscillation syntax ... phototransistors feedback amplifiers words (language) . . . . silicon transistors positive feedback . . SOS (semiconductors) transfer functions semicircular canals ... cascode devices Structures of the inner ear, the primary ... quantum well infrared self propagation GS diffusion function of which is to register movement of the photodetectors body in space. They respond to change in the ... TRAPATT devices self propagation rate of movement. . . . varactor diodes transmission GS anatomy . . varistors self propagation . sense organs barrier layers RT ∞ propagation . . ear bubble technique . . . labyrinth chips (memory devices) self regulating . . . semicircular canals USE automatic control crystal rectifiers eardrums RT diffusion electrodes middle ear self repairing devices diffusion length otolith organs RT ∞ automation diodes vestibules doping (materials) ∞ devices Gunn diodes evolvable hardware semiconducting films Gunn effect maintenance RT amorphous semiconductors Hall effect self sealing amorphous silicon hybrid circuits GS sealing diamond films ion implantation

energy absorption films

superconducting films

films

thick films

∞ iunctions

microminiaturization

molecular electronics

modulation doping

self sealing

flight safety

rupturing

fuel systems

nanostructures (devices) distributed feedback lasers intermetallics organic semiconductors fiber lasers majority carriers oscillators gadolinium-gallium garnet ∞ materials parametric amplifiers gallium arsenides melts (crystal growth) pentodes Gunn effect metalloids quantum dots injection lasers minority carriers quantum Hall effect laser arrays modulation doping quantum wires laser cavities nanostructure (characteristics) rectifiers optical switching negative electron affinity semiconductors (materials) pulsed lasers organic charge transfer salts silicon films Q switched lasers polyacetylene quantum dots pseudopotentials tetrodes resistors triodes quantum wires solid state lasers screen effect tunnel junctions surface emitting lasers semiconductor devices wafers semiconductor plasmas waveguide lasers semiconductor diodes ∞ solid state physics Two-electrode semiconductor devices thermoelectric materials semiconductor plasmas utilizing the rectifying properties of junctions or GS particles point contacts. semiempirical equations . charged particles GS electronic equipment RT algebra . . energetic particles . diodes ∞ equations . . . plasmas (physics) . . semiconductor diodes ... plasmas (physics)
... semiconductor plasmas
.corpuscular radiation
... energetic particles
... plasmas (physics) parameterization . . . avalanche diodes . . . . cryosar semimetals . . . Barritt diodes USE metalloids ... germanium diodes semiconductor plasmas . . . Gunn diodes semiregular variable stars electron mobility electron-hole drops . . . transferred electron devices GS celestial bodies . . . junction diodes . stars holes (electron deficiencies) . . variable stars . . . MIM diodes plasma physics . step recovery diodes . semiregular variable stars . . . light emitting diodes semiconductors (materials) irregular variable stars . . . parametric diodes periodic variations . . . photodiodes . . . Schottky diodes . . . tunnel diodes semiconductors (materials) Electronic conductors, with resistivity semisolids in the range between metals and insulators, in RT plastic properties which the electrical charge carrier concentration . . . varactor diodes MIM diodes solids increases with increasing temperature over some temperature range. Certain semiconducthixotropy viscous fluids SIS (semiconductors) tors possess two types of carriers, namely, thermionic diodes negative electrons and positive holes. semispan models GS semiconductors (materials) semiconductor insulator semiconductors models . acceptor materials semispan models USE SIS (semiconductors) . amorphous semiconductors aerodynamic configurations semiconductor junctions . amorphous silicon aircraft models semiconductor junctions donor materials scale models . metal oxide semiconductors . heterojunctions wind tunnel models . homojunctions .. CMOS . MBM junctions ITO (semiconductors) Senarmont polariscopes measuring instruments . . SOS (semiconductors) . n-p-n junctions . p-i-n junctions . metal-nitride-oxide-semiconductors . polariscopes . metal-nitride-oxide-silicon . . Senarmont polariscopes MIM (semiconductors) optical equipment . p-n junctions MIS (semiconductors) polariscopes . p-n-p junctions MOM (semiconductors) Senarmont polariscopes p-n-p-n junctions . n-type semiconductors . organic semiconductors silicon junctions lasers optical measuring instruments Barritt diodes . photoconductors heterojunction devices p-type semiconductors superlattices Vycor ∞ junctions senders MSM (semiconductors) USE transmitters n-type semiconductors aluminum arsenides Seneca aircraft p-type semiconductors antisite defects bipolar transistors Schottky diodes USE PA-34 Seneca aircraft SIS (semiconductors) threshold voltage bucket brigade devices Senegal tunnel junctions carbon nitrides GS nations carrier density (solid state) Senegal semiconductor lasers carrier injection RT Africa laser diodes charge injection devices conducting polymers conduction bands electronic equipment sense organs . solid state devices GS anatomy . . semiconductor devices conductors . sense organs . . . semiconductor lasers copper indium selenides . . chemoreceptors ... aluminum gallium arsenide doping (materials) . . ear lasers electric conductors . . . eardrums . . . . gallium arsenide lasers electron affinity eustachian tubes .... quantum cascade lasers electron density (concentration) . . . labyrinth . . . . quantum well lasers electron tunneling . . . . cochlea . . . YLF lasers electrons . . . . . Corti organ stimulated emission devices emitters . . . . otolith organs . . . . semicircular canals excitons gadolinium-gallium garnet . . . . vestibules . . semiconductor lasers . . . aluminum gallium arsenide lasers gallium nitrides . . . middle ear gallium arsenide lasers hole distribution (electronics) . . eye (anatomy) . . . quantum cascade lasers holes (electron deficiencies) ... choroid membranes . . . quantum well lasers indium antimonides . . . conjunctiva . . YLF lasers indium gallium arsenides . . . cornea Bragg reflectors indium selenides ... oculomotor nerves

indium tellurides

DBR lasers

. . . pupils

. . . retina anaphylaxis time discrimination corrosion prevention . . . . fovea . . gravireceptors sensitivity sensory feedback . otolith organs feelings UF . . baroreceptors GS feedback sensitometry . . mechanoreceptors The measurement of the light re-. biofeedback . . photoreceptors . . sensory feedback sponse characteristics of photographic film un-. . proprioceptors der specified conditions of exposure and develemotional factors . thermoreceptors opment. emotions fingers sensitivity GS moods head (anatomy) sensitometry moon illusion nervous system gravireceptors nonlinear feedback olfactory perception mechanoreceptors perception organs photoreceptors sensorimotor performance perceptual time constant photosensitivity receptors (physiology) proprioceptors sensory perception sensitometry radiation measurement UF senses GS perception skin (anatomy) receptors (physiology) sense organs . sensory perception senses thermoreceptors . . auditory perception sensory perception USE . . consciousness sensor fusion . . extrasensory perception sensibility USE multisensor fusion . . kinesthesia USE sensitivity . . olfactory perception . . pain sensorimotor performance sensing . . pain sensitivity UF motor skills USE detection sensorimotor performance . . proprioception GS . psychomotor performance . autokinesis sensitivity . . psychosomatics afferent nervous systems efferent nervous systems DEF Response of a mathematical model to RT . . touch variations of the input parameters. Used for . . . tactile discrimination insensitivity and sensibility. human performance . . vertical perception UF insensitivity . . vibration perception human reactions sensibility . . visual perception perceptual time constant physiological tests sensitivity ... critical flicker fusion . anaphylaxis . . . space perception . impact resistance pilot performance . . . autokinesis reaction time . notch sensitivity . . visual discrimination sensory feedback . pain sensitivity RT afterimages . photosensitivity anesthesia . . light adaptation sensors electrocutaneous communication . . phototropism (USE OF A MORE SPECIFIC TERM IS SN itching RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . propellant sensitivity . radiation tolerance Devices designed to respond to physisensitometry sensory stimulation cal stimuli (as temperature, illumination, and motion) and transmit a resulting signal for interspectral sensitivity GS stimulation acuity adaptation amplification sensory stimulation pretation, or measurement, or for operating a chronaxy control. Used for pickoffs and pickups. emotional factors UF pickoffs auditory perception subliminal stimuli pickups dynamic characteristics RT bioinstrumentation sensory thresholds dynamic response character recognition (added August 2004) frequency response charge flow devices itching USE thresholds (perception) contour sensors perception crop identification precision sentences data acquisition range (extremes) RT communication theory electronic transducers reaction time languages FLIR detectors ∞ resistance messages gas detectors resolution semantics guidance sensors sensitizing signal reception image velocity sensors shock resistance signal transmission laser gyroscopes thresholds measuring instruments speech thresholds (perception) syntax microoptoelectromechanical systems tolerances (mechanics) microwave sensors talking transfer functions multispectral linear arrays words (language) transient response remote sensors visibility robot sensors Sentinel system vulnerability servomotors weapon systems GS smart materials Sentinel system sensitivity analysis antimissile defense tactile sensors (robotics) (added February 2001) antimissile missiles torque sensors (robotics) DEF Study of how the variation in the output civil defense transducers of a system model can be qualitatively or quan-Nike missiles titatively apportioned to different input paramsensory deprivation Safeguard system eters, model structures, or calibration data. Spartan missile deprivation GS RT ∞ analyzing . sensory deprivation confinement Sprint missile design analysis surface to air missiles design optimization ∞ systems error analysis confining monotony factorial design SEO (Indian spacecraft) perception optimization USE Indian spacecraft parameter identification sensory discrimination parameterization shape optimization discrimination SEOCS (satellite) . sensory discrimination DEF An ESA meteorological satellite desystems analysis . . brightness discrimination signed for sun-Earth observation and climatol-

. . tactile discrimination

. . visual discrimination

RT speech recognition

ogy. GS

artificial satellites

. meteorological satellites

sensitizing

activation

actuation

RT

| SEOCS (satellite)  | exchanging                           | mixers   |
|--|--------------------------------------|--|
|  | exclusion                            | ∞ separation                                   |
| SEOS   | external store separation            | shakers  |
| USE Synchronous Earth Observatory  | extraction                           | spacers  |
| satellite  | filtration                           | traps  |
|  | flaking                              | vaporizers                                     |
| SEPAC (payload)  | flashing (vaporizing)                | washers (cleaners)                             |
| DEF Space experiment particle accelera-  | flotation                            | washers (spacers)                              |
| tors. A Spacelab 1 payload that experiments on   | flushing<br>foaming                  | windows (apertures)                            |
| the Earth's ionosphere and magnetosphere. Used for Space Exper with Particle Accelera- | fractionation                        | septum   |
| tors.  | fracturing                           | RT mediastinum                                 |
| UF Space Exper with Particle   | homogenizing                         | membranes                                      |
| Accelerators   | ion exchanging                       | ∞ partitions                                   |
| GS payloads  | ion extraction                       | ·  |
| . SEPAC (payload)  | ion stripping                        | sequencing                                     |
| RT ∞ accelerators  | isolation                            | RT consecutive events                          |
| particle accelerators  | leaching                             | coordination                                   |
| Spacelab   | materials recovery                   | critical path method                           |
|  | melting                              | interruption<br>∞ operations                   |
| separated flow   | mixing                               | operations research                            |
| UF flow separation   | osmosis<br>percolation               | packet switching                               |
| GS fluid flow  | phase separation (materials)         | Petri nets                                     |
| . viscous flow   | polarization (charge separation)     | planning                                       |
| boundary layer flow  | precipitation (chemistry)            | priorities                                     |
| <b>separated flow</b><br>boundary layer separation                                     | purging                              | ranking  |
| RT cavitation flow   | purification                         | scheduling                                     |
| conical flow   | radiochemical separation             | sequential control                             |
| Crocco-Lee theory  | recrystallization                    | switching                                      |
| flow characteristics   | refining                             | switching theory                               |
| flow distribution  | removal                              | turnaround (STS)                               |
| forward facing steps   | scrapers                             | tial avaluata                                  |
| reattached flow  | separated flow                       | sequential analysis                            |
| reversed flow  | separators                           | GS statistical analysis . seguential analysis  |
| ∞ separation   | settling                             | RT quality control                             |
| surface roughness effects  | shaking                              | sampling                                       |
| turbulence effects   | shearing<br>size separation          | sorting algorithms                             |
| vortex flaps   | slicing                              | temporal logic                                 |
| - congration   | solvent extraction                   | , ,  |
| ∞ <b>SEPARATION</b> SN (USE OF A MORE SPECIFIC TERM IS                                 | sorption                             | sequential computers                           |
| RECOMMENDEDCONSULT THE TERMS   | spacing                              | GS data processing equipment                   |
| LISTED BELOW)  | splitting                            | . computers                                    |
| UF segregation   | spreading                            | digital computers                              |
| RT adsorption aeration   | stage separation                     | sequential computers                           |
| agglomeration  | stripping (distillation)             | sequential control                             |
| agitation  | sublimation                          | DEF Control by completion of a series of       |
| beneficiation  | swirling                             | one or more events.                            |
| boundary layer separation  | thermal diffusion                    | GS automatic control                           |
| breaking   | thermophoresis<br>tumbling motion    | . sequential control                           |
| centrifuging   | vaporizing                           | RT accuracy                                    |
| chemical fractionation   | venting                              | computer programming                           |
| chipping   | washing                              | consecutive events                             |
| classifiers  | zone melting                         | ∞ control                                      |
| cleaning   | ŭ                                    | data flow analysis                             |
| coagulation  |                                      | numerical control                              |
| coalescing   | separators                           | sequencing                                     |
| Coanda effect colloids   | UF battery separators GS separators  | Serbska Republic                               |
| concentrating  | . classifiers                        | (added June 1996)                              |
| condensing   | sizing screens                       | GS nations                                     |
| crystallization  | thickeners (equipment)               | . Serbska Republic                             |
| cutting  | . dividers                           | RT Bosnia and Herzegovina                      |
| debonding (materials)  | . drying apparatus                   | Europe   |
| decontamination  | desiccators                          | Yugoslavia                                     |
| degassing  | . dust collectors                    |  |
| dehumidification   | . evaporators                        | sergeant missiles                              |
| dehydration  | . fluid filters                      | GS missiles                                    |
| deionization   | air filters                          | . surface to surface missiles                  |
| delaminating   | . precipitators                      | sergeant missiles                              |
| demineralizing<br>deoxygenation  | electrostatic precipitators . sieves | RT Juno 1 launch vehicle Juno 2 launch vehicle |
| deposition   | . spirals (concentrators)            | Jupiter C rocket vehicle                       |
| descaling  | . stills                             | Little Joe 2 launch vehicle                    |
| desorption   | RT centrifuges                       | solid propellant rocket engines                |
| dialysis   | cleaners                             |  |
| diffusion  | columns (process engineering)        | sergenium                                      |
| dispersing   | concentrating                        | GS chemical elements                           |
| dissolving   | concentrators                        | . actinide series                              |
| distillation   | condensers (liquefiers)              | transuranium elements                          |
| diverters  | curtains                             | sergenium                                      |
| ∞ division   | ∞ diffusers                          | . nuclides                                     |
| drying   | diverters                            | isotopes                                       |
| electrodialysis  | ∞ filters                            | radioactive isotopes                           |
| electrostatic precipitators  | floats                               | transuranium elements                          |
| elimination  | fluidized bed processors             | sergenium                                      |
| elution  | furnaces                             | metals   |

ion exchange membrane electrolytes

evaporation

. actinide series

. . transuranium elements electric rocket engines utilities . . . sergenium engine tests space electric rocket tests servoamplifiers series (mathematics) ∞ spacecraft GS amplifiers GS analysis (mathematics) . servoamplifiers . calculus SERT (rocket tests) control equipment . . series (mathematics) USE space electric rocket tests . servoamplifiers . asymptotic series controllers ... Campbell-Hausdorff series serums . servomechanisms ... cosine series GS serums servoamplifiers ... Fourier series . blood serum feedback amplifiers . . . Pade approximation inoculum fly by tube control ... power series RT antiserums servocontrol . . Taylor series ∞ fluids . . . . . MacLaurin series proteins . progressions servocontrol ... Prony series service life servostability control . . . sine series machine life UF aeroservoelasticity . real variables GS life (durability) aircraft hydraulic systems . . series (mathematics) service life automatic control . . . asymptotic series accelerated life tests ∞ control ... Campbell-Hausdorff series ∞ equipment control moment gyroscopes cosine series fatigue life control theory Fourier series maintenance digital command systems . . . Pade approximation feedback control hydraulic equipment retirement for cause . power series systems health monitoring . . Taylor series . . . MacLaurin series manipulators Service Module (ISS) manual control . . . progressions (added March 1999) off-on control . . . Prony series DEF Primary Russian component of the Inpneumatic equipment . . sine series ternational Space Station providing an early proportional control RT Abel function station living quarters and life support system remote control Chebyshev approximation functions to all early elements. Also provides rocket engine control divergence propulsive attitude control and reboost capability servoamplifiers form factors for the early station. servomechanisms Fourier-Bessel transformations UF Zvezda Service Module servomotors function space GS modules stepping motors functional analysis space station modules turbojet engine control Gibbs phenomenon Service Module (ISS) visual control infinity RT International Space Station series expansion life support systems servomechanisms DEF Control systems incorporating feedservice modules series expansion back in which one or more of the system signals GS modules DEF In mathematics, a divergent series of represent mechanical motion. . service modules terms the sum of which is asymptotic or ascend-GS controllers . Multi-Purpose Logistics Modules . servomechanisms spacecraft components expansion . . servoamplifiers service modules series expansion . servomotors . Multi-Purpose Logistics Modules asymptotic series RT active control Apollo spacecraft command modules divergence actuators ∞ mathematics aircraft hydraulic systems spacecraft docking modules series (mathematics) automatic control spacecraft modules automatic control valves serotonin ∞ automation service oriented architecture drugs ∞ control (added May 2007) . vasoconstrictor drugs control moment gyroscopes DEF A paradigm for organizing and utilizing . . serotonin electric motors loosely coupled, platform-independent, distriborganic compounds feedback control uted capabilities that may be under the control of hydraulic equipment . amines different ownership domains. The set of compo-. . tryptamines pneumatic equipment nents comprising the architecture can be inradar equipment ... serotonin voked and their interface descriptions can be . cyclic compounds remote control published and discovered. . . heterocyclic compounds robots architecture (computers) . . . indoles self alignment service oriented architecture . . . . tryptamines servocontrol computer networks . . . . serotonin stepping motors computer systems design tactile sensors (robotics) distributed processing serpentine torque sensors (robotics) web services GS minerals . serpentine services servomotors asbestos GS services Magnesyn (trademark) chromites . medical services Selsyns (trademark) rocks . meteorological services servos soils web services controllers RT ∞ food . servomechanisms serratia GS microorganisms government procurement . . servomotors . bacteria Internet resources motors inventory management . servomotors . . serratia logistics actuators amplidynes SERT 1 spacecraft logistics management materials handling electric propulsion automatic control

personnel

products site selection

procurement

support systems

transportation

procurement management

electric motors

∞ rotating electrical machines

heliostats

servocontrol

synchronizers

∞ sensors

slewing

electric rocket engines

space electric rocket tests

engine tests

RT electric propulsion

∞ spacecraft

SERT 2 spacecraft

ing.

|                        | torque motors                               |                  | tooling   |                  | sex factor   |
|------------------------|---|------------------|---|------------------|--|
| 2011/02                |   | Severe           | Storms Observing Satellite  | sextant          | s  |
| servos<br>USE          | servomotors                                 |                  | StormSat satellite  | DEF              | Double reflecting instruments for mea-                   |
|                        |   |                  |   | suring a bodies. | angles, primarily altitudes of celestial                 |
| servosta               | ability control                             | sewage<br>GS     | wastes  | GS               | measuring instruments                                    |
| USE                    | servocontrol                                |                  | . sewage  |                  | . optical measuring instruments                          |
|                        |   | RT               | activated sludge  |                  | sextants   |
| SES<br>USE             | surface offeet shins                        |                  | effluents environment effects   |                  | optical equipment . optical measuring instruments        |
| USE                    | surface effect ships                        |                  | human wastes  |                  | sextants   |
| SES (S                 | huttle)                                     |                  | liquid wastes   | RT               | navigation aids  |
| USE                    | Shuttle Engineering Simulator               |                  | metabolic wastes  |                  | position indicators                                      |
|                        |   |                  | organic wastes (fuel conversion) sewers   |                  | stadimeters<br>theodolites                               |
| set                    |   |                  | solid wastes  |                  | transits   |
| SN<br>GS               | (EXCLUDES SET THEORY) mechanical properties |                  | waste disposal  |                  |  |
| 00                     | . set                                       |                  | water treatment   | Seyche           | lles<br>ed February 1989)                                |
| RT                     | deformation                                 | sewage           | treatment   |                  | landforms  |
|                        | shear properties                            | GS               | management  |                  | . islands  |
|                        |   |                  | . waste management  |                  | Seychelles   |
| set the                | ory<br>subsets (mathematics)                |                  | sewage treatment  |                  | nations<br>. Seychelles                                  |
| GS                     | mathematical logic                          | RT               | aerobes   | RT               | Africa   |
|                        | . set theory                                |                  | anaerobes   |                  | Indian Ocean   |
|                        | Borel sets                                  |                  | chemical sterilization  | Soufort          | galaxies   |
|                        | equivalence<br>threshold logic              |                  | filtration Modular Integrated Utility System                                      |                  | celestial bodies   |
| RT                     | Boolean algebra                             |                  | purification  |                  | . galaxies   |
|                        | branching (mathematics)                     |                  | sediments   |                  | active galaxies  |
|                        | combinatorial analysis<br>conjunction       |                  | sludge  | RT               | Seyfert galaxies active galactic nuclei                  |
| •                      | Fibonacci numbers                           | 000              | treatment<br>waste disposal   | 101              | blazars  |
|                        | fractals                                    |                  | wasto dioposal  |                  | galactic nuclei  |
|                        | fuzzy sets                                  | sewers           |   |                  | infrared radiation                                       |
|                        | fuzzy systems<br>graph theory               | DEF<br>tation of | Networks of pipelines for the transpor-<br>metabolic and/or industrial wastes for |                  | line spectra luminous intensity                          |
|                        | homotropy                                   | disposal         |   |                  | Markarian galaxies                                       |
|                        | hyperplanes                                 |                  | pipelines   |                  | spiral galaxies  |
|                        | lattices (mathematics)                      | DT               | . sewers  |                  | stellar spectra ultraviolet radiation                    |
|                        | Lebesgue theorem Orlicz space               | RT               | drainage<br>effluents   |                  | ultraviolet radiation                                    |
|                        | permutations                                |                  | garbage   | SFAR             |  |
| 0                      | space                                       |                  | human wastes  | USE              | sound fixing and ranging                                 |
|                        | subdivisions                                |                  | metabolic wastes  | sferics          |  |
| 0                      | subgroups<br>theories                       |                  | sanitation<br>sewage  | USE              | atmospherics   |
|                        |   |                  | waste disposal  | SGEMP            |  |
| SETI                   |   |                  | wastes  | USE              | system generated electromagnetic                         |
| USE                    | Project SETI                                | sewing           |   |                  | pulses   |
|                        |   | RT               | binding   | SGML             |  |
| ∘ <b>setting</b><br>SN | (USE OF A MORE SPECIFIC TERM IS             | ∞                | joining   |                  | document markup languages                                |
| 014                    | RECOMMENDEDCONSULT THE TERMS                |                  | needles<br>weaving  | 000 (            |  |
| RT                     | LISTED BELOW)<br>adjusting                  |                  | woaving .   |                  | stronomy)<br>ed January 2000)                            |
|                        | coagulation                                 | sex              |   |                  | soft gamma repeaters                                     |
|                        | curing                                      | RI∝              | drives<br>females   | 000 (            |  |
|                        | hardening (materials) polymerization        |                  | males   |                  | uclear reactors) sodium graphite reactors                |
|                        | positioning                                 |                  | sex factor  |                  | • .  |
|                        | solidification                              |                  | zygotes   | SH wav           |  |
|                        |   | sex fact         | or  |                  | ed September 1988)<br>horizontally polarized shear waves |
| settling               |   |                  | females   |                  | elastic waves  |
| RT                     | accumulations agglomeration                 |                  | males   |                  | . S waves  |
|                        | agitation                                   |                  | physiological factors<br>psychological factors                                    | RT               | SH waves<br>nondestructive tests                         |
|                        | beneficiation                               |                  | Sex   | KI               | seismic waves  |
|                        | coagulation coalescing                      |                  | sex glands  |                  | transverse waves   |
|                        | concentrating                               | aav alav         | - de  |                  | ultrasonic tests   |
|                        | crystallization                             | sex glar<br>GS   | anatomy   | ~                | • waves  |
|                        | deposition                                  |                  | . genitourinary system  | SH-3 he          | elicopter  |
|                        | effluents<br>flocculating                   |                  | reproductive systems  | UF               | HSS-2 helicopter   |
|                        | flotation                                   |                  | sex glands<br>gonads  |                  | Sea King helicopter<br>Sikorsky HSS-2 helicopter         |
|                        | particle motion                             |                  | goriaus<br>ovaries  | GS               | antisubmarine warfare aircraft                           |
|                        | precipitation (chemistry)                   |                  | testes  |                  | . SH-3 helicopter  |
|                        | processing<br>separation                    |                  | prostate gland  |                  | Sikorsky aircraft  |
| ~                      | size separation                             |                  | . glands (anatomy) sex glands   |                  | . SH-3 helicopter transport aircraft                     |
|                        | Stokes law (fluid mechanics)                |                  | gonads  |                  | . SH-3 helicopter  |
|                        | subsidence<br>water treatment               |                  | ovaries   |                  | V/STOL aircraft  |
|                        | water treatment                             |                  | testes  |                  | . rotary wing aircraft                                   |
| setups                 |   | RT               | prostate gland estrogens  |                  | helicopters military helicopters                         |
| RT                     | machining                                   | -                | reproduction (biology)  |                  | SH-3 helicopter  |

| RT             | S-61 helicopter<br>SH-4 helicopter        |                      | transmissions (machine elements) vehicle wheels                                      | RT         | cnoidal waves fisheries   |
|----------------|---|----------------------|--|------------|---|
|                | ·   |                      | wheels   |            | oceanography  |
|                | licopter                                  |                      |  |            | oceans  |
| GS             | antisubmarine warfare aircraft            | shakers              |  |            | reefs   |
|                | SH-4 helicopter                           | RT                   | classifiers  |            | seas  |
|                | Sikorsky aircraft                         |                      | mixers   |            | shorelines  |
|                | . SH-4 helicopter                         |                      | separators   |            | topography  |
|                | transport aircraft . SH-4 helicopter      |                      | shaking<br>sieves  |            | water depth   |
|                | V/STOL aircraft                           |                      | sizing screens   | shanks     |   |
|                | . rotary wing aircraft                    |                      | vertical motion simulators   | USE        | joints (junctions)  |
|                | helicopters                               |                      | vibration simulators   | OOL        | joints (junctions)  |
|                | military helicopters                      |                      | Vibration diminiatoro  | Shannor    | n information theory  |
|                | SH-4 helicopter                           | shaking              |  |            | information theory  |
| RT             | S-61 helicopter                           | GS                   | shaking  |            | •   |
|                | SH-3 helicopter                           |                      | . dithers  |            | n-Wiener measure  |
|                |   | RT                   | agitation  | RT         | entropy   |
|                | ton bomber                                |                      | buffeting  |            | information theory  |
| GS             | attack aircraft                           |                      | dispersing   |            | random variables  |
|                | . bomber aircraft                         |                      | epilepsy   | chana a    | ontrol  |
|                | Shackleton bomber                         |                      | flapping   | shape c    |   |
|                | Hawker Siddeley aircraft                  |                      | flutter  |            | The control of large flexible platforms by means of actuators strategically lo- |
|                | . Shackleton bomber                       |                      | mixing   | cated.     | by means of actuators strategically lo-   |
|                | monoplanes . Shackleton bomber            | ~                    | separation<br>shakers  | RT         | actuators   |
|                | . Strackleton bottiber                    |                      | structural vibration   |            | Columbus space station  |
| shades         |   |                      | suspending (mixing)  | ∞          | control   |
| RT             | louvers                                   |                      | swirling   |            | control theory  |
|                | shielding                                 |                      | vibration  |            | flexible spacecraft   |
| ~              | shutters                                  |                      |  |            | large space structures  |
|                |   | shale oi             | 1  |            | space platforms   |
|                | graph photography                         | GS                   | fuels  |            | spacecraft control  |
|                | Photography in which steep density        |                      | . chemical fuels   |            |   |
|                | s in the flow about a body are made       |                      | hydrocarbon fuels  |            | unctions  |
|                | he body itself being presented in silhou- |                      | fossil fuels   |            | ed July 1992)   |
|                | ed for shadowgraphs and spark shad-       |                      | shale oil  | GS         | functions (mathematics)   |
|                | photography.                              |                      | oils   | DT         | . shape functions   |
| UF             | shadowgraphs                              |                      | . shale oil  | RT         | finite element method   |
| GS             | spark shadowgraph photography             |                      | resources  |            | polynomials shape optimization  |
| GS             | imagery . photography                     |                      | . Earth resources  |            | structural analysis   |
|                | . shadowgraph photography                 |                      | fossil fuels<br>shale oil  |            | Structural arialysis  |
|                | Schlieren photography                     | RT                   | fuel oils  | shape n    | nemory alloys   |
| RT             | black and white photography               | IXI                  | fuels  |            | Martensitic alloys (titanium-nickel)  |
| 111            | color photography                         |                      | gasoline   |            | chibit shape recovery characteristics by  |
|                | flow visualization                        |                      | hydrocarbon fuels  |            | duced transformation and reorientation.   |
|                | wind tunnel models                        |                      | kerogen  | Reverse    | transformation during heating restores  |
|                |   |                      | kerosene   | the origin | nal grain structure of the high tempera-  |
| shadow         | graphs                                    |                      | lubricating oils   | ture pha   | se.   |
| USE            | shadowgraph photography                   |                      | paraffins  | GS         | alloys  |
|                |   |                      | retort processing  |            | . shape memory alloys   |
| shadow         |   |                      |  |            | nitinol alloys  |
| DEF            | Darknesses in regions, caused by ob-      | shales               |  |            | ferroelastic materials  |
|                | s between the source of light and the     | DEF                  | Fine grained detrital sedimentary  |            | . shape memory alloys   |
| regions.<br>GS | shadows                                   |                      | ormed by the consolidation (especially   | DT         | nitinol alloys ferroelasticity  |
| 93             | . lunar shadow                            |                      | pression) of clay, silt, or mud. They are  | IXI        | microstructure  |
|                | . penumbras                               |                      | rized by finely laminated structures,<br>npart a fissility approximately parallel to |            | nickel alloys   |
| RT             | cloud cover                               |                      | ding, along which rocks break readily  |            | phase transformations   |
|                | clouds (meteorology)                      |                      | layers and are commonly most con-  |            | plastic memory  |
|                | darkness                                  |                      | s on weathered surfaces. They are char-  |            | smart materials   |
|                | illuminating                              |                      | d by an appreciable content of clay  |            | stress-strain diagrams  |
|                | light (visible radiation)                 | minerals             | and detrital quartz; thinly laminated or   |            | temperature effects   |
|                | night                                     | fissile cla          | aystones, siltstones, or mudstones.  |            | titanium alloys   |
|                | self shadowing                            | GS                   | rocks  |            | transition metals   |
|                | umbras                                    |                      | . sedimentary rocks  |            |   |
| -1             |   |                      | shales   |            | ptimization   |
|                | machine elements)                         | RT                   | boreholes  |            | ed February 2001)   |
| UF             | axles                                     |                      | clays  |            | Process of, or techniques for, deter-   |
|                | journals (shafts)<br>trunnions            |                      | Earth resources  |            | values of shape design variables that e or maximize a selected object function  |
| GS             | shafts (machine elements)                 |                      | minerals<br>soils  |            | tisfying limiting constraints.  |
| 00             | . rotating shafts                         |                      | 50115  |            | optimization  |
|                | turboshafts                               | shallow              | shell equations  | 00         | . design optimization   |
| RT             | axes of rotation                          |                      | end plates   |            | shape optimization  |
|                | bearings                                  |                      | equations  | RT         | aircraft design   |
|                | bushings                                  |                      | pressure vessels   |            | airfoil profiles  |
| ~              | journals                                  |                      | stress analysis  | ∞          | design  |
| ~              | loading                                   |                      | •  |            | design analysis   |
|                | loads (forces)                            | shallow              |  |            | fineness ratio  |
|                | mandrels                                  | GS                   | shells (structural forms)  |            | sensitivity analysis  |
|                | mechanical drives                         |                      | . shallow shells   |            | shape functions   |
|                | packings (seals)                          | RT                   | critical loading   |            | structural analysis   |
|                | pintles                                   |                      | shell stability  |            | structural design   |
|                | pivots                                    |                      | shell theory   |            | structural design criteria  |
|                | rotating cylinders                        | challa               | water  | obere-     | charges   |
|                | spindles                                  | <b>shallow</b><br>GS | water  |            | Charges  An explosive device configured so that                                 |
|                | supports                                  | GS                   | . shallow water  |            | An explosive device configured so that<br>y can be controlled in one direction. |
|                | torque                                    |                      | . Stration water   | ns energ   | gy can be controlled in one direction.  |

| GS      | explosive devices  |         | meteorite collisions   |         | torsional vibration                         |
|---------|--|---------|--|---------|---|
| 00      | . shaped charges   |         | meteorite craters  |         | toroionai vibration                         |
| RT      | ammunition   |         | sedimentary rocks  | shear s | strength                                    |
|         | bombs (ordnance)   |         | shock loads  |         | The maximum shear stress which              |
|         | explosive forming  |         | striation  |         | I is capable of sustaining. Shear strengt   |
|         | explosives   |         | structural properties (geology)  |         | lated from the maximum load during          |
|         | projectiles  |         | structural properties (geology)  |         | r torsion test and is based on the original |
|         | torpedoes  | ahatta. | in a   |         | ons of the cross section of the spec        |
|         | warheads   | shatter |  | men.    | ons of the cross section of the spec        |
|         |  | USE     | fragmentation  |         | mechanical properties                       |
|         | weapons  |         |  | 00      | . shear properties                          |
| shapers |  |         | ee helicopter  |         | shear strength                              |
|         | tools  | USE     | CH-21 helicopter   | рT      | compressive strength                        |
| 00      | . machine tools  |         |  | IXI     | fiber strength                              |
|         | shapers  | ∞ shear |  |         | high strength                               |
| RT      | grinding machines  | SN      | (USE OF A MORE SPECIFIC TERM IS  |         | interfacial energy                          |
|         | milling machines   |         | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   |         | ∘ strength                                  |
|         | Timing Theorimos   | RT      | dilatational waves   | Č       | tensile strength                            |
| shapes  |  |         | shearing   |         | terisile strength                           |
| UF      | curved surfaces  |         | shears   | shear s | tross                                       |
| 0.      | form   |         | 5.154.5  |         | The stress component tangential to the      |
| GS      | shapes   | shear o | reen   |         | n which the forces act. Used for shea       |
| -       | . convexity  | GS      | mechanical properties  |         | and shearing stress.                        |
|         | . ellipticity  | 65      |  | UF      | shear fatigue                               |
|         | . flatness   |         | . creep properties shear creep   | Oi      |   |
|         | . line shape   | RT      |  | GS      | shearing stress                             |
|         | and the second s | KI      | plastic deformation  | GS      |   |
|         | . rosette shapes   |         | tensile creep  |         | . shear stress                              |
|         | . T shape  |         |  | рт      | torsional stress                            |
| RT      | •  |         | listurbances   | KI      | interlaminar stress                         |
| KI      | asymmetry  | USE     | S waves  |         | mechanical properties                       |
|         | concavity  |         |  |         | shearography                                |
|         | contour sensors  | shear f | atigue   |         | transverse loads                            |
|         | contours   | USE     | shear stress   |         |   |
|         | corners  |         |  | shear w |   |
| ~       | cross sections   | shear f | low  | USE     | S waves                                     |
|         | crystal morphology   | GS      | fluid flow   |         |   |
|         | curvature  |         | . shear flow   | shearin |   |
|         | curved panels  | RT      | coaxial flow   | GS      | cutting                                     |
|         | geoids   |         | core flow  |         | . shearing                                  |
|         | geometry   |         | creep properties   | RT      | blanking (cutting)                          |
|         | morphology   |         | ∞ flow   |         | cold working                                |
|         | oblate spheroids   |         | grazing flow   |         | failure                                     |
|         | planforms  |         | Kolmogorov theory  |         | failure modes                               |
| 000     | profiles   |         | Krook equation   |         | hot working                                 |
|         | profilometers  |         | mixing length flow theory  |         | loads (forces)                              |
|         | prolateness  |         | plastic flow   |         | metal cutting                               |
| 000     | surface geometry   |         | Richardson number  |         | metal working                               |
|         | symmetry   |         | stratified flow  | c       | separation                                  |
|         | topology   |         | Stratilled flow  | c       | ∘ shear                                     |
|         |  |         |  |         | shears                                      |
| sharks  |  | shear I |  |         | stamping                                    |
| GS      | animals  | UF      | Chapman shear layer  |         | structural strain                           |
|         | . vertebrates  | RT      | boundary layers  |         |   |
|         | fishes   |         | Earth ionosphere   |         | g stress                                    |
|         | sharks   | •       | ∞ layers   | USE     | shear stress                                |
|         |  |         | mixing layers (fluids)   |         |   |
|         | eading edges   |         | riblets  | shearo  | graphy                                      |
| GS      | edges  |         | screech tones  | (add    | ed February 1996)                           |
|         | . leading edges  |         | shock layers   | DEF     | An interferomic method that provide         |
|         | sharp leading edges  |         | shock wave control   | whole f | ield observation of derivatives of sma      |
| RT      | airfoils   | •       | ∞ transition layers  | surface | displacement and hence, strain.             |
|         | forebodies   |         |  | GS      | interferometry                              |
|         | trailing edges   |         | properties   |         | . shearography                              |
| -1      |  | GS      | mechanical properties  | RT      | displacement measurement                    |
| sharpne |  |         | shear properties   |         | nondestructive tests                        |
| SN      | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   |         | shear strength   |         | shear stress                                |
|         | LISTED BELOW)  | RT      | creep properties   |         | strain measurement                          |
| RT      | clarity  |         | ductility  |         | stress measurement                          |
|         | contrast   |         | fatigue (materials)  |         |   |
|         | precision  |         | Hookes law   | shears  |   |
|         | slender bodies   |         | hysteresis   | GS      | cutters                                     |
|         |  |         | impact strength  |         | . shears                                    |
| shatter | cones  |         | modulus of elasticity  |         | tools                                       |
| DEF     | Distinctively striated conical rock frag-  |         | ∞ properties   |         | . shears                                    |
| ments a | along which fracturing has occurred,   |         | resilience   | RT      | machine tools                               |
| ranging | in length from less than a centimeter to   |         | set  |         | saws  |
|         | meters, and generally found in nested or   |         | stress relaxation  | c       | ∘ shear                                     |
| composi | te groups in rocks of cryptoexplosion  |         | stresses   |         | shearing                                    |
|         | es and believed to be formed by shock  |         | stress-strain diagrams   |         |   |
|         | enerated by meteorite impact.  |         | temperature inversions   | sheath  | s   |
| GS      | cones  |         | toughness  | GS      |   |
| -       | . shatter cones  |         |  |         | . ion sheaths                               |
|         | rocks  | shear s | strain   |         | . plasma sheaths                            |
|         | . shatter cones  | DEF     | The tangent of the angular change,   | RT o    | ∞ casing                                    |
| RT      | carbonaceous rocks   |         | force, between two lines originally per-   |         | encapsulating                               |
|         | cometary collisions  |         | lar to each other through a point in a   |         | fairings                                    |
|         | crustal fractures  | body.   | and the second s |         | jackets                                     |
|         | formations   | RT      | mechanical properties  |         | linings                                     |
|         | geology  | 131     | Mindlin plates   |         | protectors                                  |
|         | geomorphology  |         | structural strain  |         | roofs                                       |
|         | رن   |         |  |         | · <del>-</del>                              |

|               | walls  | fluid filled shells                                | survival  |
|---------------|--|--|---|
| والم ما ما ا  |  | liquid filled shells                               |   |
| sheddii<br>RT | ejection   | orthotropic shells<br>plastic shells               | ∞ shelves   |
|               | molting  | reinforced shells                                  | SN (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS          |
|               | peeling  | shallow shells                                     | LISTED BELOW)   |
|               | vortex shedding  |  | RT bedrock cases (containers)   |
| sheds         |  | shell stars  | cliffs  |
| RT            | shelters   | (added November 1988) GS celestial bodies          | continental shelves   |
| sheep         |  | . stars  | racks (frames)<br>reefs   |
| GS            | animals  | early stars  | leeis   |
|               | . vertebrates  | hot stars  | Shenandoah Valley (VA)  |
|               | mammals  | B stars<br><b>shell stars</b>                      | GS valleys  |
| RT            | sheep<br>livestock   | peculiar stars                                     | Shenandoah Valley (VA)  |
|               | wool   | shell stars  | RT river basins   |
|               |  | RT stellar envelopes                               | Virginia  |
| sheet n       | netal<br>metal sheets  | shell theory                                       | Shenzhou 5 spacecraft   |
| OOL           | metal sheets   | RT perforated shells                               | (added October 2003)  |
|               | nolding compounds  | self consistent fields                             | DEF Chinese manned spacecraft consisting                                    |
|               | ed July 1993)  Regin matrix of polymor matrix fiber                      | shallow shells                                     | of a forward orbital module, a re-entry capsule, and an aft service module. |
|               | Resin matrix of polymer matrix fiber ites formed into sheets and used as | ∞ theories   | GS Chinese spacecraft   |
|               | materials for structures.  | shellfish  | . Shenzhou 5 spacecraft   |
| GS            | molding materials  | DEF Aquatic invertebrate animals having            | manned spacecraft   |
| RT            | . sheet molding compounds composite materials                            | shells.  | . <b>Shenzhou 5 spacecraft</b> RT Chinese space program                     |
| IXI           | composite materials composite structures                                 | RT coastal water                                   | Long March launch vehicles  |
|               | fiber composites   | marine biology<br>marine environments              |   |
|               | graphite-epoxy composites  | marine resources                                   | shergottites  |
|               | molds plastics   | mollusks   | (added September 1991)  |
|               | polymer matrix composites  |  | DEF Achondritic stony meteorites com-                                       |
|               | resin matrix composites  | shells (structural forms)                          | posed mainly of pigeonite and maskolynite.  GS celestial bodies             |
| ٥             | o sheets   | GS shells (structural forms) . anisotropic shells  | . meteorites  |
| sheets        |  | . circular shells                                  | stony meteorites  |
| SN            | (USE OF A MORE SPECIFIC TERM IS  | . conical shells                                   | achondrites   |
|               | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                               | . corrugated shells                                | shergottites RT chassignites  |
| RT            | coatings   | . cylindrical shells<br>. domes (structural forms) | nakhlites   |
|               | current sheets   | radomes  | SNC meteorites  |
|               | elastic sheets<br>fabrics  | . elastic shells                                   | 0, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                                     |
|               | flat plates  | . fluid filled shells<br>liguid filled shells      | Shergotty Nakhla Chassigny meteorites<br>(added March 1998)                 |
|               | laminates  | . hemispherical shells                             | USE <b>SNC</b> meteorites   |
|               | membrane structures  | . metal shells                                     |   |
|               | membranes<br>metal foils   | . orthotropic shells                               | shielding   |
|               | metal sheets   | . perforated shells<br>. plastic shells            | DEF The arrangement of shields used for                                     |
|               | multilayer insulation  | . reinforced shells                                | any particular circumstance; the use of shields.  GS shielding              |
|               | neutral sheets panels  | . shallow shells                                   | GS shielding . electromagnetic shielding                                    |
|               | papers   | . spherical shells                                 | radio frequency shielding   |
|               | polymeric films  | spherical caps<br>. thin walled shells             | . electrostatic shielding   |
|               | sheet molding compounds  | . toroidal shells                                  | . heat shielding reentry shielding  |
|               | thick plates<br>thin plates  | RT aircraft structures                             | reusable heat shielding   |
|               | vortex sheets  | arches   | . magnetic shielding  |
|               | vortex streets   | bays (structural units)<br>∞ capsules              | . radiation shielding   |
|               | webs (sheets)  | clamped structures                                 | solar radiation shielding<br>. spacecraft shielding                         |
| shell ar      | nodes  | coverings  | RT ablative nose cones  |
| GS            | electrodes   | cowlings<br>enclosures                             | absorbers (materials)   |
|               | . anodes   | fairings   | armor<br>attenuation  |
| RT            | shell anodes heat measurement  | housings   | attenuators   |
| IXI           | neat measurement   | hulls (structures)                                 | baffles   |
| shell g       |  | isotensoid structures<br>membrane structures       | ∞ barriers  |
| (add<br>GS    | ed March 1991)<br>celestial bodies                                       | membranes  | blast deflectors<br>blinds  |
| 63            | . galaxies   | monocoque structures                               | deflectors  |
|               | shell galaxies   | nacelles   | diverters   |
| RT            | elliptical galaxies  | pressure vessel design<br>protuberances            | enclosures  |
|               | galactic structure interacting galaxies                                  | rocket engine cases                                | flame deflectors<br>guards (shields)  |
|               | interacting galaxies   | skin (structural member)                           | housings  |
| shell st      |  | walls  | linings   |
| GS            | mechanical properties  | abaltara   | louvers   |
|               | . dimensional stability structural stability                             | shelters<br>GS shelters                            | manipulators<br>panels  |
|               | shell stability  | . lunar shelters                                   | protection  |
|               | stability  | RT buildings                                       | protectors  |
|               | . static stability   | civil defense                                      | safety devices  |
|               | dimensional stability structural stability                               | environmental engineering<br>habitability          | ∞ screens<br>shades   |
|               | shell stability  | sheds  | suppressors   |
| RT            | buckling   | Starsite program                                   | windows (apertures)   |

|                          | windshields   |  | harbors  |                                  | absorbers (equipment)   |
|--------------------------|---|--|--|----------------------------------|---|
|                          | / / / ·   |  | hydrofoil craft  |                                  | cushions  |
|                          | (geology)   |  | hydrofoils   |                                  | damping   |
| USE                      | bedrock   |  | keels  |                                  | energy absorption   |
| ∞ shift                  |   |  | marine transportation  |                                  | hydraulic equipment   |
| SN                       | (USE OF A MORE SPECIFIC TERM IS   | c  | navy   |                                  | impact impact acceleration  |
|                          | RECOMMENDEDCONSULT THE TERMS  |  | ocean data acquisitions systems  |                                  | isolators   |
| RT                       | LISTED BELOW) exchanging  |  | propellers   |                                  | landing gear  |
|                          | frequency shift   |  | research vehicles  |                                  | mechanical shock  |
|                          | phase shift   |  | ship hulls   |                                  | pneumatic equipment   |
|                          | shift registers   |  | ship to shore communication  |                                  | silencers   |
|                          | transferring  |  | shipyards  |                                  | springs (elastic)   |
| .1.10                    | . * . 4   |  | surface navigation   |                                  | suspension systems (vehicles)   |
| shift re                 |   |  | surface vehicles   |                                  | vibration damping   |
| GS                       | computer components . shift registers   | c  | ∞ transport vehicles<br>transportation energy  |                                  | vibration isolators   |
| RT                       | computer storage devices  |  | underwater vehicles  | shock (                          | diffusers   |
|                          | delay lines (computer storage)  | c  | ∞ vessels  |                                  | diffusers   |
|                          | digital techniques  |  |  |                                  | shock wave attenuation  |
|                          | registers (computers)   | shipya   |  |                                  |   |
| 0                        | o shift   | RT   | 0 1  |                                  | discontinuity   |
| a la iffi in m           | aguilibrium flau  |  | construction   | GS                               | discontinuity   |
|                          | <b>equilibrium flow</b><br>  fluid flow   |  | enclosures<br>industrial areas   | RT                               | . shock discontinuity density distribution  |
| 00                       | . gas flow  |  | industries   | IXI                              | wave fronts   |
|                          | equilibrium flow  |  | logistics  |                                  | wave nome   |
|                          | shifting equilibrium flow   |  | maintenance  | shock                            | fronts  |
| RT                       | frozen equilibrium flow   |  | oceanography   | DEF                              | Shock waves regarded as the forward   |
|                          | ·   | c  | ∞ ports  |                                  | s of fluid regions having characteristics   |
|                          | gh missiles   |  | ships  |                                  | t from those of the region ahead of the   |
| GS                       | missiles  |  | tanker ships   |                                  | The front sides of shock waves.   |
|                          | . surface to surface missiles antitank missiles   |  | water vehicles   | GS                               | wave fronts . shock fronts  |
|                          | Shillelagh missiles   | Shiva I  | aser system  | RT .                             | ∞ fronts  |
|                          | Offilielagii filissiles   |  | High energy multi-arm solid state (Nd  | 101                              | magnetosheath   |
| ship hu                  | Ills  |  | ED-2 glass) infrared laser system used   |                                  | wave propagation  |
| ĞS                       | hulls (structures)  |  | r driven fusion experiments.   |                                  | wave scattering   |
|                          | . ship hulls  | GS   |  |                                  |   |
| RT                       | hydrodynamic coefficients   |  | . lasers   |                                  | heating   |
|                          | hydrodynamics   |  | high power lasers<br>Shiva laser system  | GS                               | heating . kinetic heating   |
|                          | ships<br>structural design  | RT   | coherent light   |                                  | aerodynamic heating   |
|                          | submarines  | 111  | laser fusion   |                                  | shock heating   |
|                          | domanico  |  | laser outputs  |                                  | transient heating   |
| ship ter                 | rminals   |  | Nova Laser System  |                                  | shock heating   |
| GS                       | terminal facilities   | c  | ∞ systems  | RT                               | magnetohydrodynamic shear heating   |
|                          | ship terminals  | -1-1   |  |                                  | plasma heating  |
| RI                       | artificial harbors  | <b>shiveri</b><br>GS   | ng<br>shivering  | shock                            | lavore  |
|                          | deepwater terminals<br>harbors  | 00   | . dithers  |                                  | ∞ layers  |
|                          | Marots (ESA)  | RT   | body temperature   |                                  | normal shock waves  |
|                          | offshore docking  |  | , ,  |                                  | oblique shock waves   |
|                          | tanker terminals  | shoals   |  |                                  | shear layers  |
| 0                        | o terminals   | GS   | water  |                                  | stress waves  |
|                          | wharves   | RT   | . shoals   |                                  | ∞ transition layers   |
| ahin ta                  | ahara aammuniaatian   | KI   | beaches<br>lakes   | shock                            | loade   |
| DEF                      | shore communication Communication between a ship at sea   |  | oceanography   |                                  |   |
|                          | hore station.   |  |  |                                  | loads (forces)  |
| GS                       |   |  | oceans   | GS                               | loads (forces)<br>. dvnamic loads   |
|                          | telecommunication   |  | oceans<br>reefs  | GS                               | loads (forces) . dynamic loads transient loads  |
|                          | telecommunication . communication   |  | reefs<br>rivers  | GS                               | . dynamic loads<br>. transient loads<br>shock loads   |
|                          |   |  | reefs<br>rivers<br>seas  |                                  | . dynamic loads transient loads shock loads blast loads   |
| RT                       | . communication ship to shore communication data transmission   |  | reefs<br>rivers  | RT                               | . dynamic loads . transient loads shock loads blast loads aerodynamic loads   |
| RT                       | . communication ship to shore communication data transmission radio communication   | ∞ shock  | reefs<br>rivers<br>seas  |                                  | . dynamic loads transient loads shock loads blast loads aerodynamic loads axial compression loads   |
| RT                       | . communication ship to shore communication data transmission radio communication ships   | ∞ <b>shock</b><br>SN   | reefs<br>rivers<br>seas  |                                  | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads axial compression loads compression loads   |
| RT                       | . communication ship to shore communication data transmission radio communication   |  | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS   |                                  | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads   |
|                          | . communication ship to shore communication data transmission radio communication ships   | SN   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  |                                  | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads axial compression loads compression loads   |
| RT<br><b>ships</b><br>GS | . communication ship to shore communication data transmission radio communication ships   |  | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  |                                  | . dynamic loads . transient loads shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures   |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry water vehicles ships  | SN   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions   |                                  | . dynamic loads . transient loads shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation  | SN   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance   |                                  | . dynamic loads . transient loads shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship   | SN   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology)  | RT                               | . dynamic loads transient loads shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria   |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers   | SN<br>RT   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  | RT                               | . dynamic loads transient loads shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria   |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships   | SN<br>RT<br>shock  | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock (physiology)   | RT                               | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship   | SN<br>RT<br>shock  | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory  | RT<br><b>shock</b><br>GS         | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments . shock measuring instruments  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships   | SN<br>RT<br><b>shock</b><br>DEF<br>insuffici   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse,   | RT                               | . dynamic loads . transient loads shock loads blast loads aerodynamic loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments accelerometers   |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship nuclear powered ships Savannah nuclear ship Savannah nuclear ship   | SN<br>RT<br><b>shock</b><br>DEF<br>insuffici   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory  | RT<br><b>shock</b><br>GS         | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments . shock measuring instruments  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships nuclear powered ships Savannah nuclear ship satellite communications ships   | SN<br>RT<br>shock<br>DEF<br>insuffici<br>tachyca   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, urdia, pallor, and diminished urinary out- human reactions   | RT<br><b>shock</b><br>GS         | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments . shock measuring instruments accelerometers pressure gages  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships nuclear powered ships Savannah nuclear ship satellite communications ships submarines  | shock shock DEF insuffici tachyca put.   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances   | RT<br><b>shock</b><br>GS<br>RT   | . dynamic loads . transient loads shock loads blast loads aerodynamic loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments accelerometers pressure gages seismographs strain gages  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships nuclear powered ships Savannah nuclear ship satellite communications ships submarines blistic missile submarines   | shock shock DEF insuffici tachyca put.   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects   | RT<br>shock<br>GS<br>RT<br>shock | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads aerodynamic loads acompression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments accelerometers pressure gages seismographs strain gages  resistance   |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships submarines submarines billistic missile submarines guided missile submarines   | shock of DEF insufficitachyca put.   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects physiology  | RT<br><b>shock</b><br>GS<br>RT   | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads aerodynamic loads acompression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments . shock measuring instruments accelerometers pressure gages seismographs strain gages  resistance shock resistance  |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships nuclear powered ships Savannah nuclear ship satellite communications ships submarines ballistic missile submarines did transmissile submarines | shock of DEF insufficitachyca put.   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects   | shock<br>GS<br>RT<br>shock<br>GS | . dynamic loads . transient loads . transient loads shock loads blast loads aerodynamic loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments accelerometers pressure gages seismographs strain gages  resistance shock resistance impact resistance   |
| ships                    | . communication . ship to shore communication data transmission radio communication ships telemetry  water vehicles . ships . Advanced Range Instrumentation Ship aircraft carriers . cargo ships . Savannah nuclear ship . tanker ships . nuclear powered ships . Savannah nuclear ship . satellite communications ships . submarines . ballistic missile submarines . guided missile submarines . trident submarine . surface effect ships  | shock<br>DEF<br>insuffici<br>tachyca<br>put.<br>RT   | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects physiology  | RT<br>shock<br>GS<br>RT<br>shock | . dynamic loads . transient loads shock loads blast loads aerodynamic loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments accelerometers pressure gages seismographs strain gages  resistance shock resistance earthquake resistance   |
| ships                    | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships nuclear powered ships Savannah nuclear ship satellite communications ships submarines ballistic missile submarines did transmissile submarines | shock of the shock | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects physiology ≫ shock  | shock<br>GS<br>RT<br>shock<br>GS | . dynamic loads . transient loads . transient loads shock loads blast loads aerodynamic loads aerodynamic loads axial compression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments accelerometers pressure gages seismographs strain gages  resistance shock resistance impact resistance   |
| ships<br>GS              | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships nuclear powered ships satellite communications ships submarines bullistic missile submarines trident submarine surface effect ships SWATH (ship) amphibious vehicles antiship missiles   | shock of DEF insufficitatehyca put. RT  shock of DEF or Shock of DEF or Shock of the Shock of the Shock of Shoc | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock  (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects physiology shock  absorbers  Devices for the dissipation of energy modify the response of a mechanical | shock<br>GS<br>RT<br>shock<br>GS | . dynamic loads . transient loads . transient loads shock loads blast loads aerodynamic loads aerodynamic loads acompression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments measuring instruments shock measuring instruments accelerometers pressure gages seismographs strain gages  resistance shock resistance earthquake resistance high acceleration impact mechanical properties |
| ships<br>GS              | communication ship to shore communication data transmission radio communication ships telemetry  water vehicles ships Advanced Range Instrumentation Ship aircraft carriers cargo ships Savannah nuclear ship tanker ships submarines submarines billistic missile submarines trident submarine surface effect ships SWATH (ship) amphibious vehicles   | shock DEF insuffici tachyca put. RT  | reefs rivers seas water depth  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) convulsions mechanical shock shock (physiology) shock resistance thermal shock (physiology) Clinical manifestations of circulatory ency, including hypotension, weak pulse, irdia, pallor, and diminished urinary out- human reactions human tolerances physiological effects physiology shock  absorbers Devices for the dissipation of energy                                       | shock<br>GS<br>RT<br>shock<br>GS | . dynamic loads . transient loads . shock loads blast loads aerodynamic loads aerodynamic loads aerodynamic loads acompression loads compression loads contact loads crustal fractures impact loads landing loads shatter cones structural design criteria  measuring instruments measuring instruments . shock measuring instruments accelerometers pressure gages seismographs strain gages  resistance shock resistance earthquake resistance high acceleration impact   |

∞ resistance sensitivity ∞ shock thermal shock vibration

#### shock simulators

simulators GS

. shock simulators vertical motion simulators vibration simulators

#### shock spectra

Plots of the maximum acceleration experienced by single degree of freedom systems as a function of their own natural frequency in response to applied shocks.

GS spectra

shock spectra

dynamic structural analysis energy spectra mechanical shock noise spectra stroking tests structural design

#### shock tests

RT drop tests impact tests load tests railroad humping tests ∞ tests vibration tests

structural vibration

#### shock tubes

Relatively long tubes or pipes in which very brief high speed gas flows are produced by the sudden release of gas at very high pressure into low pressure portions of the tubes; the high speed flows move into the region of low pressure behind shock waves.

GS shock wave generators

. shock tubes

. . magnetic annular shock tubes

. shock tunnels

gas temperature hotshot wind tunnels

hypersonic flow hypersonic wind tunnels hypervelocity wind tunnels

low density research low density wind tunnels

magnetic pistons test facilities

tube lasers ∞ tubes

#### shock tunnels

Shock tubes used as wind tunnels.

GS shock wave generators

. shock tubes

. shock tunnels

test facilities

. wind tunnels

. . hypersonic wind tunnels

... shock tunnels

. . hypervelocity wind tunnels

. . shock tunnels

cascade wind tunnels hotshot wind tunnels hypersonic flow low density research low density wind tunnels supersonic wind tunnels

#### shock wave attenuation

shock diffusers GS attenuation

. wave attenuation

. . acoustic attenuation

. shock wave attenuation atmospheric attenuation noise reduction wave propagation

#### shock wave control

RT ∞ control

secondary injection

shear layers

shock wave generators

GS shock wave generators

. shock tubes

. . magnetic annular shock tubes

. . shock tunnels RT ∞ generators magnetic pistons pressure sensors pulse generators

shock wave interaction

wave interaction

wave generation

shock wave interaction

Godunov method interactional aerodynamics

interactions

interplanetary shock waves propagation modes

scattering wave degradation

#### shock wave luminescence

emission

. light emission . . luminescence

. . shock wave luminescence

low density research wave interaction

#### shock wave profiles

Krook equation pressure distribution ∞ profiles velocity distribution wave interaction

#### shock wave propagation

GS transmission

. wave propagation

shock wave propagation

atmospheric attenuation

Burger equation Crocco method

high temperature gases

interplanetary shock waves nonequilibrium radiation Rankine-Hugoniot relation

secondary injection sound propagation two fluid models wave attenuation

wave interaction

#### shock waves

DEF Surfaces or sheets of discontinuity (i.e., abrupt changes in conditions) set up in supersonic fields of flow, through which the fluids undergo a finite decrease in velocity accessoried by a marked increase in pressure. companied by a marked increase in pressure, density, temperature, and entropy, as occurs, e.g., in supersonic flows about bodies. Used for bow shock waves.

bow shock waves

GS elastic waves

. shock waves

. . detonation waves

. . interplanetary shock waves

. . Mach cones

. . normal shock waves

. . oblique shock waves

. . Riemann waves

sonic booms adiabatic equations

aerodynamic noise

blast loads

blasts

bow waves **Burnett equations** 

caustic lines crustal fractures

detonation

earthquake damage earthquake resistance earthquake resistant structures

earthquakes electrostatic waves exploding wires

explosions gas temperature geodynamics

Hugoniot equation of state

hypersonic flow hypersonic shock hypersonic wakes

impact implosions longitudinal waves Mach number Mach reflection

magnetohydrodynamic waves

mechanical shock molecular relaxation noise (sound) novae plane waves planetary quakes plasma waves plumes pressure pulses seismic waves sound pressure sound waves

stress waves supersonic flow transonic flow tsunami waves underwater acoustics underwater communication

 waves wedge flow Whitham rule

### Shoemaker-Levy 9 comet

(added June 1994) GS celestial bodies . comets

. . Shoemaker-Levy 9 comet

cometary collisions Jupiter (planet)

shoes

clothing shoes RT boots (footwear) leather protective clothing

Shooting Star aircraft
USE **T-33 aircraft** 

socks

shops

ŔŢ maintenance

# Shoran

DEF A precision electronic position fixing system using a pulse transmitter and receiver and two transponder beacons at fixed points. Used for short range navigation.

short range navigation

GS navigation

. radio navigation

. . hyperbolic navigation

. . Shoran

RT air navigation

Decca navigation

distance measuring equipment navigation aids solar compasses

#### shorelines

RT beaches coastal water coasts lakes oceanography oceans rivers shallow water tidal flats

shutdowns wetlands . . C-123 aircraft . . shot peening . . DHC 4 aircraft cold working Short Belfast C MK-1 aircraft . . DHC 5 aircraft descaling USE SC-5 aircraft . . Questol aircraft fatigue (materials) . . U-10 aircraft metal working short circuit currents RT ∞ aircraft ∞ shot DEF The steady value of the input alternating currents that flow when the output direct circulation control airfoils strain hardening compound helicopters surface finishing current terminals are short-circuited and rated externally blown flaps work hardening line alternating voltage is applied to the line fan in wing aircraft terminals. helicopters shoulders GS electric current JATO engines RT joints (anatomy) short circuit currents jet aircraft scapula open circuit voltage jet flaps photovoltaic cells lift fans ∞ showers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS short circuits lifting rotors solar cells ∞ military aircraft LISTED BELOW)
cosmic ray showers volt-ampere characteristics powered lift aircraft rotary wing aircraft flood predictions short circuits Siebel aircraft meteoroid showers An abnormal connection of relatively STOVL aircraft rain low resistance between two points on a circuit. ∞ subsonic aircraft rain forests The result is a flow of excess (often damaging) takeoff runs rainstorms current between these points. tilt wing aircraft electrical faults GS vertical takeoff aircraft shrapnel . short circuits ∞ winged vehicles fragmentation RT RT circuits fragments electric arcs short wave radiation projectiles failure (RADIO WAVES) weapons jumpers electromagnetic radiation short circuit currents . radio waves shredding sneak circuit analysis . . short wave radiation comminution GS system failures . . . microwaves . shredding . . . . centimeter waves composting short cracks .... cosmic microwave background cutting GS fractures (materials) radiation tearing . cracks . . . . decimeter waves . short cracks . . . microwave emission Shrike missile crack geometry crack initiation . . . . millimeter waves missiles GS . submillimeter waves . air to surface missiles crack propagation far infrared radiation . Shrike missile fatigue life high frequencies RT solid propellant rocket engines fracture mechanics long wave radiation metal fatigue monochromatic radiation shrinkage ∞ radiation RT casting short haul aircraft Surface Meteorology and Solar contraction GS transport aircraft Energy project
Surface Radiation Budget project growth short haul aircraft ∞ reduction C-8A augmentor wing aircraft sintering Cessna 402B aircraft short wave radio transmission temperature inversions . Mercure aircraft GS transmission warpage RT air transportation . electromagnetic wave transmission ∞ aircraft . . radio transmission shrouded bodies aircraft design . short wave radio transmission USE shrouds airline operations . signal transmission passenger aircraft . . radio transmission shrouded nozzles V/STOL aircraft . short wave radio transmission RT annular nozzles RT high frequencies nozzle geometry short range ballistic missiles wave propagation nozzle walls GS missiles ∞ nozzles . ballistic missiles shortening . short range ballistic missiles USE reduction shrouded propellers . surface to surface missiles ducted propellers . short range ballistic missiles GS propellers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) field army ballistic missiles shrouded propellers intermediate range ballistic missiles ducted fans ammunition ring wings short range navigation launching thrust augmentation USE Shoran orbital shots XV-11A aircraft pellets Short SC-1 aircraft shot noise shrouded turbines USE SC-1 aircraft GS turbomachinery shot peening . turbines Short SC-5 aircraft . . shrouded turbines shot noise USE SC-5 aircraft DEF Quantum noise caused by electric cur-Short SC-7 aircraft rent fluctuations attributable to the discrete nashrouds USE SC-7 aircraft ture of charge carriers. UF shrouded bodies GS electromagnetic interference RT coverings . radio frequency interference . . electromagnetic noise short takeoff & vertical landing aircraft ducted bodies USE STOVL aircraft

. shot noise

RT Barritt diodes

thermal noise

GS hardening (materials)

. shot peening

metal finishing

. peening

shot

shot peening

short takeoff aircraft

STOL aircraft

V/STOL aircraft

. . C-15 aircraft

. short takeoff aircraft . . Aladin 2 aircraft

. . Breguet 940 aircraft

. . Breguet 941 aircraft

. . C-8A augmentor wing aircraft

865

The processes of decreasing engine

rigging

bypasses

deactivation

engines

circuits

shunts

USE

shutdowns

thrusts to zero.

DEF

RT

∞ SCRAM RT space shuttles sidelobes Shuttle Superlightweight Tank sidelobes ∞ shutters (added June 1998) GS distribution (property) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN USE external tanks . radiation distribution . . antenna radiation patterns propellant tanks blinds . . sidelobes camera shutters RT antenna design louvers ∞ lobes USE International System of Units shades near fields sidelobe reduction sialon DEF Any composition containing silicon, Shuttle Avionics Integration Laboratory aluminum, oxygen, and nitrogen and usually produced by the high-temperature reactions side-looking radar USE SAIL project GS radar among the ingredients. . synthetic aperture radar Shuttle Boosters . side-looking radar mixtures GS USE Space Shuttle Boosters RT airborne radar sialon change detection RT aluminum imaging radar ceramics **Shuttle Derived Vehicles** radar imagery high temperature DEF New configuration resulting from the radar scanning nitrogen production and operation of the Space Shuttle. search radar oxygen Used for SDV. reaction bonding SDV sidereal time refractory materials RT Advanced Launch System (STS) DEF Time based upon the rotation of the silicon nitrides manned spacecraft Earth relative to the vernal equinox. sintering Space Shuttle orbiters GS time space shuttles . sidereal time SIAM missiles ∞ spacecraft RT astronomy self initiated antiaircraft missiles spacecraft design Earth rotation GS missiles stellar motions . antiaircraft missiles time measurement Shuttle Engineering Simulator . SIAM missiles units of measurement DEF Training equipment for crew members air to air missiles in mission operation procedures including variantimissile missiles siderite meteorites ous approach maneuvers, braking, final ap-USE iron meteorites proach, etc. Siberia UF SES (Shuttle) Arctic regions simulators
. Shuttle Engineering Simulator GS A spathic iron ore; an iron carbonate. U.S.S.R. carbon compounds RT space shuttles . carbonates SIC (coefficient) siderites USE structural influence coefficients shuttle glow iron compounds USE spacecraft glow siderites Sicily minerals landforms . siderites Shuttle Imaging Radar . islands Earth resources shuttle imaging radar . Sicily siderophile elements SIR-A RT Italy (added January 2002) SIR-B Mediterranean Sea DEF Elements having a chemical affinity for iron, and normally found in the metal-rich interi-SIR-C SIR-D sicknesses ors of compositionally segregated planets and GS radar GS sicknesses asteroids. . Doppler radar . altitude sickness chemical elements GS . . pulse Doppler radar . decompression sickness . siderophile elements Shuttle Imaging Radar . motion sickness chondrites . imaging radar Earth mantle . . Shuttle Imaging Radar SID (ionospheric disturbances) geochemistry . pulse radar USE sudden ionospheric disturbances iron . . pulse Doppler radar lunar composition Shuttle Imaging Radar side inlets meteoritic composition . space based radar intake systems . side inlets GS mineralogy Shuttle Imaging Radar minerals synthetic aperture radar air intakes petrography Shuttle Imaging Radar bypass ratio planetary composition Earth observations (from space) hypersonic inlets trace elements radar geology inlet airframe configurations radar imagery nose inlets sides remote sensing scoops edges Space Shuttle payloads supersonic inlets geometry synthetic arrays ∞ water intakes rims walls **Shuttle Mission Simulator** sidebands SMS (Shuttle) UF RT ∞ bands sideslip GS simulators double sideband transmission RT maneuvers . Shuttle Mission Simulator selective fading roll single sideband transmission skidding ∘ slip Shuttle Orbiters spacecraft motion sidelobe reduction USE Space Shuttle orbiters GS attenuation . sidelobe reduction Shuttle pallet satellites apodization sidewash DEF Reusable pallet type structures designed to be shuttle launched which will act as USE backwash horn antennas radar antennas

radar attenuation

radar reception

radar reflectors

radar resolution

∞ reduction

Sidewinder missiles

. air to air missiles

antiaircraft missiles

. . Sidewinder missiles

GS missiles

GS

building blocks for larger platforms. Used for

SPAS (ESA platforms) artificial satellites

. Shuttle pallet satellites

SPAS (ESA platforms).

|              | Sidewinder missiles          |         | vector mesons                                    |              | quadrature phase shift keying                       |
|--------------|------------------------------|---------|--|--------------|---|
| Siebel       | aircraft                     |         | sigma-mesons                                     |              | pulse modulation                                    |
|              | ∞ aircraft                   |         | fermions<br>baryons                              |              | pulse amplitude modulation pulse code modulation    |
| 1(1 -        | short takeoff aircraft       |         | sigma-mesons                                     |              | delta modulation                                    |
|              | oner tancon anoran           |         | hadrons  |              | differential pulse code                             |
| Siemen       | s 2002 computer              |         | baryons  |              | modulation  |
| GS           | data processing equipment    |         | sigma-mesons                                     |              | pulse frequency modulation                          |
|              | . computers                  |         | mesons   |              | pulse time modulation                               |
|              | Siemens 2002 computer        |         | vector mesons                                    |              | pulse duration modulation                           |
| Ciarra I     | Laama                        |         | sigma-mesons                                     |              | pulse position modulation                           |
| Sierra I     | nations                      |         | . nuclear particles                              |              | trellis coding                                      |
| 00           | . Sierra Leone               |         | bosons   | RT           | concatenated codes                                  |
| RT           | Africa                       |         | mesons   |              | digital to analog converters                        |
|              |                              |         | vector mesons                                    |              | pulse frequency modulation telemetry                |
|              | Nevada Mountains (CA)        | RT      | sigma-mesons charged particles                   |              | redundancy encoding Reed-Solomon codes              |
| GS           | landforms                    | IXI     | eta-mesons                                       |              | scrambling (communication)                          |
|              | . mountains                  |         | ola mocone                                       |              | telecommunication                                   |
| DT           | Sierra Nevada Mountains (CA) | signal  | analysis   |              | transmitters  |
| RT           | California                   | GS      | data processing                                  |              | video compression                                   |
| sieves       |                              |         | signal analysis                                  |              | Viterbi decoders                                    |
| GS           | separators                   |         | cepstral analysis                                |              | voice data processing                               |
|              | . sieves                     | RI ·    | ∞ analyzing                                      |              | wavelet analysis                                    |
| RT           | fluid filters                |         | digital radar systems frequency analyzers        |              |   |
|              | shakers                      |         | Gabor transformation                             |              | fadeout   |
|              | sizing screens               |         | phase deviation                                  | USE          | signal fading                                       |
|              | wire cloth                   |         | signal measurement                               |              |   |
| sight        |                              |         | spectrum analysis                                | signal       |   |
| sight<br>USE | visual percention            |         | wavelet analysis                                 | UF           | 3   |
| USE          | visual perception            |         | <del></del>                                      | GS           | fading  |
| SIGMA        | 5 computer                   |         | analyzers  |              | . signal fading                                     |
|              | data processing equipment    | GS      | measuring instruments                            |              | Rayleigh fading selective fading                    |
|              | . computers                  |         | . analyzers                                      | RT           | S .   |
|              | analog computers             | DT      | signal analyzers                                 | IXI          | atmospheric scattering                              |
|              | SIGMA 5 computer             | RI      | analog computers                                 |              | attenuation   |
|              | digital computers            |         | autodynes  |              | diffraction patterns                                |
|              | SIGMA 5 computer             | eianal  | detection  |              | electromagnetic absorption                          |
| SIGMA        | 7                            |         | detection  |              | ground effect (communications)                      |
| GS           | manned spacecraft            | 00      | . signal detection                               |              | radio frequency interference                        |
| 00           | . Mercury spacecraft         |         | correlation detection                            |              | radio scattering                                    |
|              | SIGMA 7                      | RT      | autodynes  |              | reception diversity                                 |
|              | reentry vehicles             |         | ∞ detectors                                      |              | signal measurement                                  |
|              | . recoverable spacecraft     |         | discrimination                                   |              | smear   |
|              | Mercury spacecraft           |         | dynamic range                                    |              | sound intensity                                     |
|              | SIGMA 7                      |         | phase detectors                                  |              |   |
|              | soft landing spacecraft      |         | preamplifiers                                    |              | fading rate   |
|              | . Mercury spacecraft         |         | radar detection                                  | GS           | rates (per time)                                    |
|              | SIGMA 7                      |         | signal measurement                               | DT           | . signal fading rate                                |
|              | space capsules               |         | sound transducers                                | KI           | fading selective fading                             |
|              | . Mercury spacecraft         |         | telecommunication                                |              | sound intensity                                     |
| рт           | SIGMA 7                      | signal  | detectors  |              | Souria interisity                                   |
| RT           | Mercury MA-8 flight          |         | signal discriminators                            | o i a mol    | flavo granha  |
| SIGMA        | 9 computer                   | RT      | anticoincidence detectors                        | signai<br>RT | flow graphs duality principle                       |
|              | data processing equipment    |         | autodynes  |              | odanty principie<br>∞ flow graphs                   |
| 00           | . computers                  |         | ∞ detectors                                      |              | network analysis                                    |
|              | digital computers            |         | discrimination                                   |              | Richards theorem                                    |
|              | SIGMA computers              |         | microwave sensors                                |              | sneak circuit analysis                              |
|              | SIGMA 9 computer             |         | preamplifiers                                    |              | onean analysis                                      |
|              | ·                            |         | signal measurement                               | eianal       | generators  |
|              | computers                    |         | sound transducers                                |              | Shielded sources of voltage or power,               |
| GS           | data processing equipment    |         | telecommunication                                |              | tpUt level and frequency of which are               |
|              | . computers                  | olemal. | dia a vivo in a ta va                            |              | ted, and usually variable over a range.             |
|              | digital computers            | 0       | discriminators                                   |              | signal generators                                   |
|              | SIGMA computers              | USE     | signal detectors                                 |              | . frequency synthesizers                            |
|              | SIGMA 9 computer             | eianal  | distortion                                       |              | . function generators                               |
| Sigma        | Orionis                      |         | distortion                                       | RT           | circuits  |
|              | celestial bodies             | 00      | . signal distortion                              | •            | ∞ generators  |
|              | . stars                      | RT      |  |              | Hall generators                                     |
|              | double stars                 |         | radio signals                                    |              | oscillators   |
|              | binary stars                 |         | scrambling (communication)                       |              | sirens  |
|              | Sigma Orionis                |         |  |              | solid state devices                                 |
|              | early stars                  |         | encoding   |              | sound generators                                    |
|              | hot stars                    | GS      | coding   |              | subharmonic generators voltage generators           |
|              | B stars                      |         | . signal encoding                                |              | vollage generalors                                  |
|              | Sigma Orionis                |         | amplitude modulation                             | -l           | magaurament   |
|              | peculiar stars               |         | quadrature amplitude modulation                  | -            | measurement   |
| рт           | Sigma Orionis                |         | frequency modulation                             | UF<br>PT     | electronic signal measurement                       |
| ΚI           | Orion constellation          |         | feedback frequency modulation FM/PM (modulation) | RT           | electromagnetic measurement ionospheric propagation |
|              | stellar systems              |         | frequency shift keying                           |              | onospheric propagation                              |
| siama-       | mesons                       |         | pulse frequency modulation                       | ,            | ∞ measurement<br>signal analysis                    |
| GS           | particles                    |         | phase modulation                                 |              | signal detection                                    |
|              | . elementary particles       |         | FM/PM (modulation)                               |              | signal detectors                                    |
|              | bosons                       |         | phase shift keying                               |              | signal fading                                       |
|              | mesons                       |         | binary phase shift keying                        |              | signal processing                                   |
|              |                              |         |  |              |   |

signal to noise ratios interference immunity error signals low noise horns signal mixing matched filters magnetic signals GS mixing maximum entropy method messages . signal mixing pseudorandom sequences ∞ noise auditory signals noise propagation . pyrotechnics error signals radio signals noise spectra four-wave mixing noise threshold random signals magnetic signals random noise signal to noise ratios radio signals sirens random signals signal measurement sound generators signal processing ∞ signals symbols data processing telecommunication white noise signal processing time signals . space-time adaptive processing video signals signal transmission audio signals visual signals GS transmission companding visual stimuli signal transmission direction finding . . data transmission discrete cosine transform ... automatic picture transmission signature analysis equalizers (circuits) . . . multiple access RT ∞ analyzing frequency domain analysis cepstral analysis . . . . Aloha system interference immunity . . . . carrier sense multiple access detection maximum entropy method code division multiple access imagery message processing .... demand assignment multiple infrared signatures multisensor fusion access microwave signatures onboard data processing . . . . frequency division multiple missile signatures processing
 signal measurement access radar signatures .... time division multiple access signatures smoke detectors ... packet transmission target recognition surface acoustic wave devices . . . . Aloha system telemetry time domain analysis ... single channel per carrier signatures transmission GS signatures VHSIC (circuits) . . microwave attenuation . infrared signatures video signals . . radar transmission . magnetic signatures Viterbi decoders . . radio transmission . missile signatures wavelet analysis . . . double sideband transmission . radar signatures . . . ionospheric propagation . spectral signatures signal reception . . . ionospheric F-scatter . . microwave signatures signal reception amplitude distribution analysis propagation . homodyne receptionradar reception . . . microwave transmission biomarkers . . . multipath transmission detection . radio reception short wave radio transmission representations television reception single sideband transmission signature analysis target recognition video landmark acquisition and RT antenna gain spread spectrum transmission . . . transequatorial propagation . . . transhorizon radio propagation preamplifiers ∞ receiving tracking sentences satellite transmission transmission rate (communications) telemetry
biotelemetry
P.A.C.M. telemetry significance vocoders confidence limits correlation signal reflection PCM telemetry covariance GS echoes . . . radio telemetry degrees of freedom signal reflection . . . . pulse frequency modulation finite difference theory reflection telemetry null hypothesis signal reflection . television transmission numerical analysis cepstral analysis audio signals regression analysis spread reflection code division multiplexing statistical tests transmission message processing teleconnections (meteorology) wave reflection messages multiplexing signs (symbols) signal stabilization orthogonal multiplexing theory USE symbols stabilization packet switching signal stabilization pulse communication signs and symptoms frequency control radar attenuation symptoms UF transmission circuits radio attenuation syndromes radio scattering signs and symptoms signal to noise ratios sentences . acquired immunodeficiency DEF Ratios which measure the comprehensound transmission syndrome sibility of a data source or transmission link, syllables . bradycardia usually expressed as the root mean square talking . cough signal amplitude divided by the root mean telecommunication . dizziness square noise amplitude. transmission efficiency dyspnea GS ratios transmission rate (communications) . edema . signal to noise ratios video signals amplitude distribution analysis . headache wireless communication attenuation hematuria background noise kidney stones signal-processing-in-the-element detectors bit error rate leukopenia (added January 2000) JSE infrared detectors carrier to noise ratios . nausea USE . vertigo channel noise communication theory RT asphyxia signals companding diseases (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) audio signals hallucinations correlation detection dark current dynamic range RT symptomology electromagnetic interference auditory signals electromagnetic noise beacons Sikhote-Alin meteorite false alarms bells GS celestial bodies

chirp signals

electric pulses

. meteorites

. . iron meteorites

image contrast

image enhancement

|               | Sikhote-Alin meteorite                      | used as  | a dehumidifying and dehydrating agent,   |          | iron alloys                                       |
|---------------|---|----------|--|----------|---|
| Cileleina     |   |          | talyst carrier, and sometimes as a cata- |          | magnesium alloys                                  |
| Sikkim<br>GS  | nations                                     | lyst.    | mala                                     |          | microstructure                                    |
| 00            | . Sikkim                                    | GS       | gels<br>. <b>silica gel</b>              |          | nickel alloys<br>silicon                          |
| RT            | Asia  | RT       | aerogels                                 |          | Silicon   |
|               | Bhutan                                      |          | dehumidification                         | silicon  | carbides  |
|               | Himalayas                                   |          | dehydration                              | GS       | carbon compounds                                  |
|               | India                                       |          | drying                                   |          | . carbides  |
| Sikorsk       | y aircraft                                  |          | silicon dioxide                          |          | silicon carbides<br>silicon compounds             |
|               | Sikorsky aircraft                           |          | xerogels                                 |          | . silicon carbides                                |
|               | . CH-3 helicopter                           | silica g | lass                                     | RT       | abrasives   |
|               | . CH-34 helicopter                          | GS       | glass                                    |          | carbon-silicon carbide composites                 |
|               | . CH-54 helicopter                          |          | silica glass                             |          | Carborundum (trademark)                           |
|               | . H-19 helicopter<br>. H-53 helicopter      | RT       | glass coatings                           |          | ceramic fibers                                    |
|               | . H-56 helicopter                           |          | glass electrodes<br>glass fibers         |          | nanocomposites polycarbosilanes                   |
|               | . H-60 Helicopter                           |          | glassware                                |          | polycarbosilaries                                 |
|               | S-58 helicopter                             |          | sands                                    | silicon  | compounds   |
|               | . S-61 helicopter                           |          | silicon dioxide                          | GS       | silicon compounds                                 |
|               | . S-67 helicopter                           |          |  |          | . flint   |
|               | . SH-3 helicopter<br>. SH-4 helicopter      | silicate |  |          | . organic silicon compounds triphenyl silicon     |
|               | . Sikorsky Whirlwind helicopter             | GS       | silicon compounds<br>. silicates         |          | . silanes   |
|               | . UH-34 helicopter                          |          | aluminum silicates                       |          | chlorosilanes                                     |
|               | . UH-60A helicopter                         |          | andesite                                 |          | methyl chlorosilanes                              |
|               | UH-61A helicopter                           |          | feldspars                                |          | silicates   |
| RT ∝          | aircraft                                    |          | gehlenite                                |          | aluminum silicates                                |
| Sikorsk       | / HSS-2 helicopter                          |          | kaolinite                                |          | andesite  |
|               | SH-3 helicopter                             |          | montmorillonite                          |          | feldspars<br>gehlenite                            |
| 002           | on a nanaptar                               |          | pyrophyllite<br>plagioclase              |          | kaolinite   |
|               | S-58 helicopter                             |          | aragonite                                |          | montmorillonite                                   |
| USE           | S-58 helicopter                             |          | beryl                                    |          | pyrophyllite                                      |
| Sikorsk       | S-61 helicopter                             |          | alexandrite                              |          | plagioclase                                       |
|               | S-61 helicopter                             |          | calcium silicates                        |          | aragonite   |
| 002           |   |          | gehlenite                                |          | beryl<br>alexandrite                              |
|               | S-64 helicopter                             |          | cordierite fayalite                      |          | calcium silicates                                 |
| USE           | CH-54 helicopter                            |          | fluorosilicates                          |          | gehlenite   |
| Sikorsk       | S-65 helicopter                             |          | forsterite                               |          | cordierite  |
|               | H-53 helicopter                             |          | garnets                                  |          | fayalite  |
| 002           |   |          | gadolinium-gallium garnet                |          | fluorosilicates                                   |
| Sikorsky      | S-67 helicopter                             |          | yttrium-aluminum garnet                  |          | forsterite  |
| USE           | S-67 helicopter                             |          | yttrium-iron garnet                      |          | garnets   |
| Cikorok       | w Whirlwind holiooptor                      |          | merwinite monticellite                   |          | gadolinium-gallium garnet yttrium-aluminum garnet |
|               | y Whirlwind helicopter<br>Sikorsky aircraft |          | nepheline                                |          | yttrium-iron garnet                               |
| 00            | . Sikorsky Whirlwind helicopter             |          | potassium silicates                      |          | merwinite   |
|               | V/STOL aircraft                             |          | pyroxenes                                |          | monticellite                                      |
|               | . rotary wing aircraft                      |          | enstatite                                |          | nepheline   |
|               | helicopters                                 |          | sodium silicates                         |          | potassium silicates                               |
|               | military helicopters                        |          | spodumene<br>talc                        |          | pyroxenes<br>enstatite                            |
| PT ~          | Sikorsky Whirlwind helicopter aircraft      |          | tourmaline                               |          | sodium silicates                                  |
| 1(1 ~         | alloran                                     |          | zeolites                                 |          | spodumene   |
| silanes       |   | RT       | akermanite                               |          | talc  |
| GS            | hydrogen compounds                          |          | amphiboles                               |          | tourmaline  |
|               | . hydrides                                  |          | disilicides                              |          | zeolites  |
|               | silanes                                     |          | minerals                                 |          | . silicides                                       |
|               | chlorosilanes methyl chlorosilanes          |          | silicides<br>silicon dioxide             |          | disilicides<br>. silicon carbides                 |
|               | silicon compounds                           |          | tetraethyl orthosilicate                 |          | silicon nitrides                                  |
|               | . silanes                                   |          | vermiculite                              |          | . silicon oxides                                  |
|               | chlorosilanes                               |          |  |          | muscovite   |
|               | methyl chlorosilanes                        | silicide |  |          | nephelite   |
| RT            | disilicides                                 | GS       | silicon compounds                        |          | silicon dioxide                                   |
|               | polycarbosilanes                            |          | . silicides disilicides                  |          | quartz<br>coesite                                 |
|               | polysilanes                                 | RT       | intermetallics                           |          | stishovite  |
| silence       |   | 111      | silicates                                |          | spodumene   |
| RT            | noise reduction                             |          |  |          | . silicon tetrachloride                           |
|               | transmission loss                           | silicon  |  | RT       | akermanite  |
|               |   | GS       | chemical elements                        |          | ∞ chemical compounds                              |
| silence<br>RT |   |          | . metalloids silicon                     | •        | ∞ Group 4A compounds                              |
| KI            | attenuators<br>damping                      |          | amorphous silicon                        |          | methyl polysiloxanes polysiloxanes                |
|               | inhibitors                                  |          | porous silicon                           |          | silicones   |
|               | mufflers                                    |          | silicon isotopes                         |          | siloxanes   |
|               | shock absorbers                             | RT       | float zones                              |          |   |
|               | squelch circuits                            |          | reaction bonding                         |          | controlled rectifiers                             |
|               | suppressors                                 |          | Schottky diodes                          | UF<br>GS | SCR (rectifiers)                                  |
|               | zero sound                                  |          | silicon alloys                           | GS       | electronic equipment . solid state devices        |
| silica        |   | silicon  | alloys                                   |          | semiconductor devices                             |
| USE           | silicon dioxide                             | GS       | alloys                                   |          | thyristors  |
|               |   |          | . silicon alloys                         |          | silicon controlled rectifiers                     |
| silica g      |   | RT       | aluminum alloys                          |          | rectifiers  |
| DEF           | A colloidal, highly absorbent silica        |          | germanium alloys                         |          | . thyristors                                      |

|                           | silicon controlled rectifiers   | stishovite   | passivity   |
|---------------------------|---|--|---|
| RT                        | current converters (AC to DC)   | spodumene  |   |
|                           | thyratrons  | silicon compounds  | silicon-on-insulator semiconductors   |
|                           |   | . silicon oxides   | USE SOI (semiconductors)  |
|                           | dioxide   | muscovite  | ailiaan an aannhira kunatiana   |
|                           | The chemically resistant dioxide of sili-   | nephelite  | silicon-on-sapphire junctions   |
|                           | ed for Refrasil (trademark) and silica.   | silicon dioxide  | USE SOS (semiconductors)  |
| UF                        | Refrasil (trademark)  | quartz   | silicon-on-sapphire semiconductors  |
|                           | silica  | coesite  | USE SOS (semiconductors)  |
| GS                        | chalcogenides   | stishovite   | oce oco (comiconactoro)   |
|                           | . oxides  | spodumene  | silicon-on-sapphire transistors   |
|                           | dioxides  | RT akermanite  | USE SOS (semiconductors)  |
|                           | silicon dioxide   |  | ,   |
|                           | quartz  | silicon polymers   | silk  |
|                           | coesite stishovite  | GS silicon polymers  | GS fabrics  |
|                           | silicon oxides  | . silicone resins  | . silk  |
|                           | silicon dioxide   | . silicones  | fibers  |
|                           | quartz  | polysiloxanes  | . silk  |
|                           | coesite   | siloxanes  | RT crepe  |
|                           | stishovite  | methyl polysiloxanes<br>. polysilanes  | organic materials   |
|                           | silicon compounds   |  |   |
|                           | . silicon oxides  | polycarbosilanes<br>RT ∞ polymers  | silkworms   |
|                           | silicon dioxide   | it i ∞ polymers  | GS animals  |
|                           | quartz  | silicon radiation detectors  | . invertebrates   |
|                           | coesite   | GS measuring instruments   | arthropods  |
|                           | stishovite  | . radiation measuring instruments  | insects<br>moths  |
| RT                        | borosilicate glass  | radiation detectors  | silkworms   |
|                           | ceramics  | silicon radiation detectors  | larvae  |
|                           | E glass   | RT ∞ radiation   | . silkworms   |
|                           | glass   | ··· radiasidii   | RT infestation  |
|                           | metallic glasses  | silicon rectifiers   | IXI IIIIestation  |
|                           | obsidian  | USE crystal rectifiers   | silos (missile storage)   |
|                           | porcelain   | 55 <u>2</u> 5. <b>7</b> 5. 1. 1. 5 5 1. 1. 5 1. 1. 1. 5 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | USE missile silos   |
|                           | quartz crystals   | silicon solar cells  |   |
|                           | rhyolite  | USE solar cells  | siloxanes   |
|                           | S glass   | 001 0010   | GS silicon polymers   |
|                           | sands   | silicon tetrachloride  | . silicones   |
|                           | silica gel  | GS halogen compounds   | siloxanes   |
|                           | silica glass  | . chlorine compounds   | RT ∞ polymers   |
|                           | silicates   | chlorides  | polysiloxanes   |
|                           | Vycor   | silicon tetrachloride  | silicon compounds   |
|                           | xerogels  | . halides  |   |
|                           | et  | chlorides  | silts   |
| silicon                   |   | silicon tetrachloride  | USE <b>sediments</b>  |
| RT                        | •   | silicon compounds  | alluer  |
| 00                        | o films   | silicon tetrachloride  | silver  |
|                           | semiconductor devices   |  | GS chemical elements  |
|                           | SOI (semiconductors) thin films   | silicon transistors  | . <b>silver</b><br>silver isotopes  |
|                           | umi mins  | GS electronic equipment  | metals  |
| silicon                   | isotopes  | . solid state devices  | . noble metals  |
| GS                        | chemical elements   | semiconductor devices  | silver  |
|                           | . metalloids  | transistors  | silver isotopes   |
|                           | silicon   | silicon transistors  |   |
|                           |   | 000 / ' ' ' ' '  | . transition metals   |
|                           | silicon isotopes  | SOS (semiconductors)   |   |
|                           | silicon isotopes<br>. nuclides  | SOS (semiconductors) RT SOI (semiconductors)   | transition metals   |
|                           |   | RT SOI (semiconductors)  | . transition metals<br><b>silver</b>  |
|                           | nuclides  | RT SOI (semiconductors) silicone resins  | . transition metals silver silver isotopes silver alloys  |
|                           | nuclides isotopes isotopes  | RT SOI (semiconductors)  silicone resins GS resins   | . transition metals silver silver isotopes silver alloys GS alloys  |
|                           | nuclides isotopes silicon isotopes junctions  | RT SOI (semiconductors)  silicone resins GS resins silicone resins   | . transition metals silver silver isotopes silver alloys GS alloys . silver alloys  |
| silicon<br>GS             | . nuclides . isotopes silicon isotopes junctions semiconductor junctions  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys   |
| GS                        | . nuclides isotopes silicon isotopes junctions semiconductor junctions . silicon junctions  | RT SOI (semiconductors)  silicone resins GS resins silicone resins silicon polymers silicone resins  | . transition metals silver silver isotopes silver alloys GS alloys . silver alloys  |
|                           | nuclides isotopes isotopes junctions semiconductor junctions silicon junctions amorphous silicon  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys   |
| GS                        | nuclides isotopes isotopes junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys silver bromides   |
| GS                        | nuclides isotopes isotopes iunctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  silicone rubber   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys silver bromides GS halogen compounds  |
| GS                        | . nuclides . isotopes silicon isotopes junctions semiconductor junctions . silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors)   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds   |
| GS                        | . nuclides . isotopes silicon isotopes  junctions semiconductor junctions . silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors)   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds bromides  |
| GS                        | . nuclides . isotopes silicon isotopes junctions semiconductor junctions . silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors)   | RT SOI (semiconductors)  silicone resins GS resins silicone resins silicone polymers silicone resins RT thermosetting resins  silicone rubber GS elastomers rubber synthetic rubbers   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides  |
| GS RT                     | nuclides isotopes isotopes  isotopes  junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides silver bromides . halides  |
| GS<br>RT<br>silicon       | nuclides isotopes isotopes isotopes  junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage nitrides   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark)   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromides silver bromides . halides . halides bromides   |
| GS RT                     | nuclides isotopes isotopes isotopes  junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber  | . transition metals silver silver silver isotopes  silver alloys GS alloys silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds bromine compounds bromides silver bromides silver bromides bromides bromides silver bromides silver bromides   |
| GS<br>RT<br>silicon       | nuclides isotopes isotopes isotopes  semiconductor junctions semiconductor junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds nitrides  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark) RTV-60 rubber (trademark)   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides . halides . bromides . silver bromides . metal halides   |
| GS<br>RT<br>silicon       | nuclides isotopes isotopes isotopes  junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds nitrides silicon nitrides   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark)   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides . halides bromides silver bromides silver bromides metal halides silver halides  |
| GS<br>RT<br>silicon       | nuclides isotopes isotopes isotopes  junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds nitrides silicon nitrides silicon compounds   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone resins RT thermosetting resins  silicone rubber GS elastormers . rubber synthetic rubbers silicone rubber silicone rubber RTV-40 rubber (trademark) RTV-60 rubber (trademark) silicones  | . transition metals . silver . silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides . silver bromides . halides . bromides . silver bromides . silver bromides . metal halides . silver halides . silver bromides . silver bromides  |
| GS<br>RT<br>silicon       | nuclides isotopes isotopes isotopes  junctions semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds nitrides silicon nitrides   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicon polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark) RTV-60 rubber (trademark)  silicones GS silicon polymers   | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides . halides bromides silver bromides silver bromides metal halides silver halides  |
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| GS<br>RT<br>silicon<br>GS | nuclides isotopes isotopes isotopes iunctions semiconductor junctions silicon junctions amorphous silicon heterojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage nitrides nitrogen compounds nitrides silicon nitrides silicon ompounds silicon intrides ceramic matrix composites   | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark) RTV-60 rubber (trademark) silicones GS silicon polymers . silicones . polysiloxanes . siloxanes . siloxanes . methyl polysiloxanes  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides . halides . bromides silver bromides silver bromides silver bromides silver bromides silver bromides silver bromides silver bromides silver compounds . silver halides   |
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| GS RT Silicon GS          | nuclides . isotopes . silicon isotopes  junctions semiconductor junctions . silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds . nitrides . silicon nitrides silicon compounds . silicon intrides ceramic matrix composites nanocomposites reaction bonding sialon  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone polymers . silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark) RTV-60 rubber (trademark) silicones GS silicon polymers . silicones . polysiloxanes . siloxanes . siloxanes . methyl polysiloxanes  | . transition metals . silver . silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides . silver bromides . halides . bromides . silver bromides . silver bromides . metal halides . silver halides . silver bromides silver compounds . silver bromides   |
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| GS RT Silicon GS          | nuclides isotopes isotopes isotopes implications semiconductor junctions silicon junctions amorphous silicon heterojunctions homojunctions SIS (semiconductors) SOI (semiconductors) threshold voltage  nitrides nitrogen compounds . silicon nitrides silicon compounds . silicon nitrides ceramic matrix composites nanocomposites reaction bonding sialon  oxides chalcogenides  | RT SOI (semiconductors)  silicone resins GS resins . silicone resins silicone resins RT thermosetting resins  silicone rubber GS elastomers . rubber synthetic rubbers silicone rubber RTV-40 rubber (trademark) RTV-60 rubber (trademark) silicones GS silicon polymers . silicones . polysiloxanes . polysiloxanes . methyl polysiloxanes RT ∞ polymers silicon compounds  siliconizing  | . transition metals silver silver isotopes  silver alloys GS alloys . silver alloys RT bearing alloys gold alloys  silver bromides GS halogen compounds . bromine compounds . bromides silver bromides . halides bromides silver bromides . metal halides silver halides silver bromides silver compounds . silver bromides silver bromides silver bromides silver bromides silver bromides silver cadmium batteries UF cadmium silver batteries GS electrochemical cells . electric batteries  |
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. . chlorides . silver oxides RT gravitation . . silver chlorides silver compounds inertia . halides silver oxides scale models . . chlorides viscosity ... silver chlorides silver zinc batteries . . metal halides silver oxide zinc batteries simple harmonic motion . . . silver halides zinc silver batteries DEF A motion such that the displacement is . . . silver chlorides zinc silver oxide batteries a sinusoidal function of time silver compounds electrochemical cells GS harmonic motion . silver halides . electric batteries . simple harmonic motion . . silver chlorides . . storage batteries harmonics. . . . silver zinc batteries . simple harmonic motion acoustics silver compounds GS silver compounds Fourier analysis . silver halides The theory and practice of controlling harmonic excitation . . silver bromides the establishment, composition, and growth of . . silver chlorides stands of trees for the harvesting of foliage simplex method . . silver iodides limbs, and possibly the trees themselves for DEF A finite iterative algorithm used in linear programming whereby successive solutions . silver nitrates biomass. agriculture are obtained and tested for optimality. . silver oxides GS . silviculture GS mathematical logic RT ∞ chemical compounds biomass . algorithms ∞ Group 1B compounds . . simplex method botany ∞ metal compounds cultivation optimization simplex method silver halides forests GS halogen compounds orchards linear programming . halides planting mathematical programming . . metal halides trees (plants) matrices (mathematics) ... silver halides ∞ methodology . . . . silver bromides SIM problem solving . . . . silver chlorides scientific instrument modules .... silver iodides silver compounds GS modules simplification . spacecraft modules assumptions RT silver halides SIM linearization . . silver bromides spacecraft components . . silver chlorides . spacecraft modules SIMS (spectrometry) SIM USE secondary ion mass spectrometry . . silver iodides Apollo 15 flight RT silver hydrogen batteries . Apollo project simulated altitude DEF Secondary batteries having silver and hydrogen electrodes. They have good energy density and cycle life. USE altitude simulation cameras instrument packages simulated annealing ∞ instruments (added December 1992) GS electrochemical cells annealing SIMD (computers)
DEF A type of . electric batteries DEF A type of parallel computer with multiple memories and an arithmetic logic unit for . . storage batteries computerized simulation laser annealing ... silver hydrogen batteries each memory. A single control unit allocates instruction execution according to the memory that holds the required operands. Used for optimization pulse heating silver iodides simulation GS halogen compounds single instruction multiple datastream. . halides . . metal halides simulation single instruction multiple datastream GS simulation . . . silver halides GS data processing equipment . atmospheric entry simulation . . . silver iodides . computers . computerized simulation . . digital computers . iodine compounds . . analog simulation . . iodides . . . parallel computers . . digital simulation . . silver iodides ... SIMD (computers) . . distributed interactive simulation silver compounds architecture (computers) control simulation . silver halides computer design . data simulation . . silver iodides computer programming . environment simulation concurrent processing . . acoustic simulation silver isotopes interprocessor communication . . altitude simulation GS chemical elements MIMD (computers) . nuclides operating systems (computers) space environment simulation . . isotopes parallel processing (computers) . . thermal simulation . . . weightlessness simulation silver isotopes . silver SIMICOR (image correlator) . neutral buoyancy simulation . . silver isotopes USE image correlators exhaust flow simulation metals . flight simulation . noble metals similarities . . in-flight simulation . . silver USE analogies . landing simulation . motion simulation . . silver isotopes similarity numbers . rheoelectrical simulation . transition metals dimensionless numbers . solar simulation . . silver ... silver isotopes similarity numbers . systems simulation . computer systems simulation ratios silver nitrates similarity numbers direct numerical simulation GS nitrogen compounds dimensional analysis hardware-in-the-loop simulation scaling laws . large eddy simulation . nitrates . . inorganic nitrates . magnetohydrodynamic simulation . scene generation . silver nitrates similarity theorem analogies silver compounds theorems similarity theorem bionics . silver nitrates . Lagrange similarity hypothesis bond graphs data processing equipment silver oxide zinc batteries dynamic models USE silver zinc batteries mathematical models deception scale models Earth analogs game theory heuristic methods silver oxides chalcogenides similitude law GS hypervelocity projectiles

GS laws

similitude law

. oxides

metal oxides

mathematical models

Monte Carlo method operations research simulated annealing simulators spacecraft cabin simulators systems analysis validity virtual reality war games

simulator training

USE training simulators

#### simulators

#### GS simulators

- . environment simulators
- . . Lunar Gravity Simulator
- . . solar simulators
- . . space simulators
- . . . clinostats
- . . . High Vacuum Orbital Simulator
- . Langley complex coordinator
- . lunar orbit and landing simulators
- . motion simulators
- . shock simulators
- . Shuttle Engineering Simulator
- . Shuttle Mission Simulator
- . target simulators
- . training simulators
- . . flight simulators
- . . . cockpit simulators
- . spacecraft cabin simulators
- . vibration simulators
- . vertical motion simulators

analogs

computer systems simulation

dummies

∞ missile simulators

models simulation

∞ test equipment

test facilities

training devices

#### simultaneous equations

RT ∞ equations

least squares method

matrices (mathematics)

simultaneous image correlator

# USE image correlators

sine series analysis (mathematics) GS

. calculus

. . series (mathematics)

... sine series

. real variables

. . periodic functions

. . . trigonometric functions

. sine series

. . series (mathematics)

sine series

functions (mathematics)

transcendental functions

. . periodic functions

. . . trigonometric functions

.... sine series

DEF Waves which can be expressed as the sine of a linear function of time, or space, or both. Used for sinusoids.

sinusoids

RT elastic waves

electromagnetic radiation trigonometric functions

wavelet analysis

∞ waves

#### Singapore

nations GS Singapore Asia

#### single channel per carrier transmission

Voice and data transmission system for satellite communication featuring the use of a carrier frequency for each channel of communication. Used for SCPC transmission.

UF SCPC transmission GS telecommunication

#### . single channel per carrier transmission

transmission

. signal transmission

. . data transmission

#### ... single channel per carrier transmission

carrier frequencies

channels (data transmission)

satellite communication

satellite transmission

spacecraft communication telegraph systems

telemetry telephony

voice communication

voice data processing

#### single crystals

monocrystals crystals

single crystals

bicrystals

boules

Bravais crystals Bridgman method

crystal lattices

diamonds

graphite kink bands

needles

piezoelectric crystals

polycrystals

space processing

ultrapure metals

#### single engine aircraft

#### single engine aircraft

Cessna 172 aircraft

Cessna 205 aircraft

. Cessna 210 aircraft

F-8 aircraft

F-9 aircraft

F-16 aircraft

F-84 aircraft F-86 aircraft

F-94 aircraft

F-100 aircraft

F-101 aircraft

F-102 aircraft F-104 aircraft

F-105 aircraft

F-106 aircraft

Jaguar aircraft

jet provost aircraft

L-29 jet trainer

MiG aircraft

Mirage aircraft

Mirage 3 aircraft

P-51 aircraft

P-1127 aircraft

P-1154 aircraft

T-2 aircraft

. T-28 aircraft

T-33 aircraft

Vampire MK 35 aircraft

VJ-101 aircraft

RT ∞ aircraft

fighter aircraft general aviation aircraft

#### single event upsets

DEF Radiation-induced errors in microelectronic circuits caused when charged particles (usually from the radiation belts or from cosmic rays) lose energy by ionizing the medium through which they pass, leaving behind a wake of electron-hole pairs.

radiation effects GS

#### . single event upsets astrionics

avionics charged particles cosmic rays electron-hole drops inner radiation belt

> ionization microelectronics

radiation damage radiation dosage satellite-borne instruments secondary cosmic rays spacecraft charging spacecraft electronic equipment

single input single output systems

USE SISO (control systems)

single instruction multiple datastream USE SIMD (computers)

single sideband modulation

USE single sideband transmission

# single sideband transmission

ŬF single sideband modulation

GS transmission

. electromagnetic wave transmission

. . radio transmission

. single sideband transmission

. signal transmission

. . radio transmission

.. single sideband transmission

amplitude modulation

double sideband transmission

sidebands

television transmission

voice communication wave propagation

# single stage rocket vehicles

GS rocket vehicles

. single stage rocket vehicles

. . Agena rocket vehicles

... Agena A rocket vehicle . . . Agena B rocket vehicle

. . . Agena C rocket vehicle

... Agena D rocket vehicle . . Arcas rocket vehicles

. . Black Brant sounding rockets

. . . Black Brant 1 sounding rocket

Black Brant 2 sounding rocket

Black Brant 3 sounding rocket

... Black Brant 4 sounding rocket ... Black Brant 5 sounding rocket

Black Knight rocket vehicle

. . Dornier paraglider rocket vehicle

Genie rocket vehicle

. . Honest John rocket vehicle . . Hyla-Star rocket vehicle

. . Little John rocket vehicle

. . Loki rocket vehicle

. . Nomad launch vehicle

Veronique rocket vehicles . . Viking rocket vehicle

Zuni rocket vehicle

Mauler missile rocket engines

∞ vehicles

single stage to orbit vehicles Second and third generation (post-Space Shuttle) vehicles studied for Earth orbit international space transportation system.

GS launch vehicles

. reusable launch vehicles .. single stage to orbit vehicles

... Delta Clipper . . HOTOL launch vehicle

reentry vehicles

. recoverable spacecraft . . reusable spacecraft

... single stage to orbit vehicles . . . . Delta Clipper

HOTOL launch vehicle RT NASA programs

rocket-based combined-cycle engines space shuttles

space transportation ∞ vehicles X-30 vehicle

## single-phase flow

one-phase flow uniphase flow fluid flow

. single-phase flow

RT critical flow

| gas flow  | UF presintering   | unmanned spacecraft  |
|---|---|--|
| laminar flow  | GS sintering  | CURTE  |
| liquid flow   | . liquid phase sintering  | SIRTF  |
| mass flow   | RT agglomeration  | USE Space Infrared Telescope Facility  |
| multiphase flow   | combustion synthesis  | SIS (semiconductors)   |
| orifice flow  | furnaces  | DEF Semiconductor devices consisting of  |
| pipe flow   | growth  | an electrically insulating layer sandwiched be-  |
| steady flow<br>steam flow   | heating   | tween two semiconducting materials. Used for   |
| subcritical flow  | hot isostatic pressing<br>hot pressing  | semiconductor insulator semiconductors.  |
| supercritical flow  | metal powder  | UF semiconductor insulator   |
| turbulent flow  | mixed crystals  | semiconductors   |
| two phase flow  | porosity  | GS electronic equipment  |
| uniform flow  | powder metallurgy   | . solid state devices  |
| unsteady flow   | pyrometallurgy  | SIS (semiconductors)   |
| , , , , ,   | reaction bonding  | RT barrier layers  |
| singular integral equations   | roasting  | MIM (semiconductors)   |
| GS analysis (mathematics)   | shrinkage   | MIS (semiconductors)   |
| . functional analysis   | sialon  | MSM (semiconductors)   |
| integral equations  |   | photodiodes  |
| singular integral equations   | sinuses   | photovoltaic cells   |
| RT ∞ equations  | DEF A term used in anatomical nomencla-   | p-n junctions  |
|   | ture to designate a cavity or hollow space.   | Schottky diodes  |
| singularity (mathematics)   | GS sinuses  | semiconductor diodes   |
| GS analysis (mathematics)   | . paranasal sinuses   | semiconductor junctions silicon junctions  |
| . complex variables   | RT carotid sinus body carotid sinus reflex  | SOI (semiconductors)   |
| singularity (mathematics)   | nose (anatomy)  | solar cells  |
| naked singularities RT points (mathematics)   | respiration   | SOS (semiconductors)   |
| RT points (mathematics) uniqueness  | respiration   | tin oxides   |
| uniqueness  | sinusoids   | transistors  |
| sinkholes   | USE sine waves  | transistors  |
| DEF Circular depressions in a Karst area.   |   | SIS (superconductors)  |
| Their drainage is subterraneous, their size is  | Sioux helicopter  | (added March 1989)   |
| measured in meters or tens of meters, and they  | USE OH-13 helicopter  | UF superconductor insulator  |
| are commonly funnel shaped.   |   | superconductors  |
| GS landforms  | siphoning   | GS electronic equipment  |
| . structural basins   | DEF The transfer of a liquid from a high to a   | . solid state devices  |
| karst   | lower level by atmospheric pressure forcing it up   | . SIS (superconductors)  |
| sinkholes   | the shorter leg while the weight of the liquid in   | superconducting devices  |
| RT kettles (geology)  | the longer leg causes continuous downward   | . SIS (superconductors)  |
| structural properties (geology)   | flow.   | RT high temperature superconductors  |
|   | RT ∞ fluids   | Josephson effect   |
| sinking   | siphons<br>thermosiphons  | Josephson junctions  |
| RT falling  | thermosiphons   | squid (detectors)  |
| S .   |   |  |
| refraction  | siphons   | SISO (control systems)   |
| refraction<br>submerging  | siphons<br>RT materials handling  | SISO (control systems) (added October 1988)  |
| refraction  | siphons  RT materials handling  pipelines   | (added October 1988)   |
| refraction<br>submerging<br>water immersion   | RT materials handling   |  |
| refraction<br>submerging<br>water immersion   | RT materials handling pipelines   | (added October 1988)<br>UF single input single output systems  |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING  | RT materials handling pipelines pipes (tubes)   | (added October 1988)<br>UF single input single output systems<br>RT ∞ control  |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR   | RT materials handling pipelines pipes (tubes) pumps   | (added October 1988)<br>UF single input single output systems<br>RT ∞ control<br>control stability   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURESLIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials)  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials)  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials) disposal  ∞ sources  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology)  | RT materials handling pipelines pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers  |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials) disposal  ∞ sources  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  . site data processors  RT Apollo project   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology)  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  . computers  . site data processors  RT Apollo project  ∞ data   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURESLIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996)   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  . computers  . site data processors  RT Apollo project  ∞ data   |
| refraction submerging water immersion  sinks SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS) GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at  | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers.  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers)  GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links data processing  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability   site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data  data links  data processing  site selection   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites Jupiter satellites Sinope  | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D INSE Shuttle Imaging Radar  SIR-D INSE Shuttle Imaging Radar  SIR-D INSE Shuttle Imaging Radar   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links data processing  site selection  DEF Selecting the location for any physical  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D use Shuttle Imaging Radar  SIR-D shuttle Imaging Radar  SIR-D shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators  ∞ signals sound generators  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites Sinope  RT Jupiter (planet)  | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D Shuttle Imaging Radar  SIR-D Signal Signal generators sound generators sound intensity   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURESLIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder   | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D use Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection . site selection   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles   | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D Shuttle Imaging Radar  SIR-D Signal Signal generators sound generators sound intensity   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens RT horns noise intensity signal generators sound generators sound generators sound intensity sound transmission warning systems   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers . site data processors  RT Apollo project  ∞ data     data links     data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  RT airports certification   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites Jupiter satellites Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles . metal powder  | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission warning systems  SIRIO satellite  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems  systems stability   site data processors  UF SDP (computers)  GS data processing equipment  . computers  . site data processors  RT Apollo project  ∞ data  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  . site selection  RT airports  certification  ∞ facilities   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURESLIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal powder powdered aluminum   | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D use Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection . site selection  RT airports certification  ∞ facilities industrial areas   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites Jupiter satellites Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal powder powdered aluminum powder powdered aluminum powder sintered aluminum powder sintered aluminum powder sintered aluminum powder   | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission warning systems  SIRIO satellite  GS artificial satellites . synchronous satellites   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers . site data processors  RT Apollo project  ∞ data data links data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection . site selection  RT airports certification  ∞ facilities industrial areas land use  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal powder powdered aluminum sintered aluminum powder . powder (particles)  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission warning systems  SIRIO satellite  GS artificial satellites . synchronous satellites . SIRIO satellite   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  ∞ facilities  industrial areas  land use  leasing  |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites Jupiter satellites Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal powder powdered aluminum powder powdered aluminum powder sintered aluminum powder sintered aluminum powder sintered aluminum powder   | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens RT horns noise intensity signal generators sound generators sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites . Synchronous satellites . SIRIO satellite RT Italian space program  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  data links  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  facilities  industrial areas  land use  leasing  logistics   |
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| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURESLIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks  RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope  RT Jupiter (planet)  sintered aluminum powder GS particles . metal powder powdered aluminum sintered aluminum sintered aluminum powder powder (particles) . metal powder powdered aluminum sintered aluminum sintered aluminum powdered aluminum powdered aluminum powdered aluminum  | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens RT horns noise intensity signal generators sound generators sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites . Synchronous satellites . SIRIO satellite RT Italian space program  | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  data links  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  facilities  industrial areas  land use  leasing  logistics   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites Jupiter satellites Jupiter satellites Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles . metal powder powdered aluminum sintered aluminum powder . powder (particles) . metal powder . powdered aluminum sintered aluminum powder . powder daluminum sintered aluminum powder powdered aluminum powder powdered aluminum powder powdered aluminum powder | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission warning systems  SIRIO satellite  GS artificial satellites . Synchronous satellites . SIRIO satellite  RT Italian space program Italy   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability control systems design control theory feedback control  ∞ systems systems stability  site data processors  UF SDP (computers) GS data processing equipment . computers site data processors  RT Apollo project  ∞ data data links data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection . site selection  RT airports certification  ∞ facilities industrial areas land use leasing logistics Mars landing sites options   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles . metal powder . powdered aluminum powder . powder (particles) . metal powder . powdered aluminum sintered aluminum sintered aluminum sintered aluminum sintered aluminum sintered aluminum sintered aluminum RT sintered aluminum powder  RT aluminum      | RT materials handling pipelines pipes (tubes) pumps siphoning ∞ tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators ∞ signals sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites . synchronous satellites . SIRIO satellite RT Italian space program Italy  SIRS B satellite   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  ∞ facilities  industrial areas  land use  leasing  logistics  Mars landing sites  options  resources                                     |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles . metal powder . powdered aluminum powder . powder (particles) . metal powder . powdered aluminum sintered aluminum sintered aluminum sintered aluminum sintered aluminum sintered aluminum sintered aluminum RT sintered aluminum powder  RT aluminum      | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens RT horns noise intensity signal generators signal generators sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites . SIRIO satellite RT Italian space program Italy  SIRS B satellite GS artificial satellites GS artificial satellites   | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  data data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  facilities  industrial areas  land use  leasing  logistics  Mars landing sites  options  resources  roads                                   |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles . metal powder . powdered aluminum sintered aluminum powder . powder (particles) . metal powder . powdered aluminum sintered aluminum sintered aluminum powder netallurgy  sintering DEF The bonding of adjacent surfaces of                                | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites SIRIO satellite RT Italian space program Italy  SIRS B satellite GS artificial satellites meteorological satellites SIRS B satellite RT meteorological satellites SIRS B satellite RT meteorological flight                 | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  ∞ facilities  industrial areas  land use  leasing  logistics  Mars landing sites  options  resources  roads  routes  services  sites     |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal powder . powdered aluminum sintered aluminum sintered aluminum sintered aluminum powder  RT aluminum powder daluminum powder RT aluminum powder metallurgy  sintering  DEF The bonding of adjacent surfaces of particles in a mass of powders, usually metal, by      | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators signal generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites . synchronous satellite RT Italian space program Italy  SIRS B satellite GS artificial satellites . meteorological satellites . SIRS B satellite RT meteorological flight meteorological flight meteorological instruments | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  RT airports  certification  ∞ facilities  industrial areas  land use  leasing  logistics  Mars landing sites  options  resources  roads  routes  services  sites  terminal facilities |
| refraction submerging water immersion  sinks  SN (EXCLUDES PLUMBING FIXTURES-LIMITED TO AREAS FOR ABSORPTIVE DISPOSAL OF HEAT OR FLUIDS)  GS sinks . heat sinks RT absorbers (materials) disposal ∞ sources  sinks (geology) USE structural basins  Sinope (added January 1996) DEF A natural satellite of Jupiter orbiting at a mean distance of 23,700,000 kilometers. GS celestial bodies . natural satellites . Jupiter satellites . Jupiter satellites . Sinope RT Jupiter (planet)  sintered aluminum powder GS particles . metal particles . metal powder . powdered aluminum sintered aluminum powder . powder (particles) . metal powder . powdered aluminum sintered aluminum sintered aluminum powder netallurgy  sintering DEF The bonding of adjacent surfaces of                                | RT materials handling pipelines pipes (tubes) pumps siphoning tubes  SIR-A USE Shuttle Imaging Radar  SIR-B USE Shuttle Imaging Radar  SIR-C USE Shuttle Imaging Radar  SIR-D USE Shuttle Imaging Radar  Sirens  RT horns noise intensity signal generators sound generators sound intensity sound transmission warning systems  SIRIO satellite GS artificial satellites SIRIO satellite RT Italian space program Italy  SIRS B satellite GS artificial satellites meteorological satellites SIRS B satellite RT meteorological satellites SIRS B satellite RT meteorological flight                 | (added October 1988)  UF single input single output systems  RT ∞ control  control stability  control systems design  control theory  feedback control  ∞ systems  systems stability  site data processors  UF SDP (computers)  GS data processing equipment  computers  site data processors  RT Apollo project  ∞ data  data links  data processing  site selection  DEF Selecting the location for any physical plant (nuclear power, solar house, etc.) while considering the environmental impact, safety, etc.  GS selection  site selection  RT airports  certification  ∞ facilities  industrial areas  land use  leasing  logistics  Mars landing sites  options  resources  roads  routes  services  sites     |

|             | utilities                                   | c        | ∞ sizing   | skidding                           |
|-------------|---|----------|--|------------------------------------|
| -:          |   | ∞ sizing |  | skidding                           |
| sites<br>UF | tracts                                      | SŇ       | (USE OF A MORE SPECIFIC TERM IS  | RT hydroplaning                    |
| GS          | sites                                       |          | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   | landing gear                       |
|             | . Central Atlantic Regional Ecol Test       | RT       | body measurement (biology)   | sideslip                           |
|             | Site  |          | size determination   | skid landings                      |
|             | . landing sites                             |          | size separation  | sleds                              |
|             | lunar landing sites                         |          | sizing (shaping)   | yaw                                |
|             | Mars landing sites                          |          | sizing (surface treatment)   | skills                             |
|             | . launching sites launching pads            |          | sizing materials   | USE abilities                      |
|             | . offshore reactor sites                    | sizina ( | separation)  |                                    |
| RT          | airport planning                            | USE      | size separation  | skin (anatomy)                     |
|             | barren land                                 |          | •  | GS anatomy                         |
| 0           | ∞ facilities                                |          | (shaping)  | . skin (anatomy)                   |
|             | land  | GS       | metal working  | epidermis<br>RT albinism           |
| 0           | ⇒ plots                                     | рт       | . sizing (shaping)   | ∞ blisters                         |
|             | position (location) regions                 | RT       | coining pressing (forming)   | carotene                           |
|             | rural land use                              | c        | ∞ sizing (totrilling)  | chlorophylls                       |
|             | site selection                              |          | 5.2.1.9  | collagens                          |
|             |   | sizing ( | (surface treatment)  | contact dermatitis                 |
| sittina     | position                                    | SN       | (EXCLUDES MECHANICAL SHAPING OR  | cytochromes                        |
| RT          | prone position                              | RT       | REMOVAL OF SURFACE MATERIALS) finishes   | dermatitis                         |
|             | rest  |          | ∞ sizing   | dermatology<br>epithelium          |
|             | seats                                       |          | sizing materials   | evaporation                        |
|             | supine position                             | c        | ∞ surfaces   | hair                               |
|             |   |          |  | homeostasis                        |
| situatio    | onal awareness                              | sizing ı | materials  | leather                            |
| (add        | ed October 2001)                            | SN       | (MATERIALS USED FOR SURFACE  | melanin                            |
|             | The degree and accuracy to which a          | RT       | TREATMENT)<br>binders (materials)  | membranes                          |
|             | or robotic agent perceives the operating    | 111      | clays  | perspiration                       |
| environ     |   |          | fillers  | petechia                           |
| RT          | accident prevention                         |          | glues  | pigments                           |
|             | air traffic control                         | c        | ∞ materials  | secretions                         |
|             | alertness<br>decision support systems       | c        | ∞ sizing   | sense organs                       |
|             | display devices                             |          | sizing (surface treatment)   | thermoreceptors<br>touch           |
|             | flight management systems                   |          | starches   | todon                              |
|             | human factors engineering                   |          |  | skin (structural member)           |
|             | operator performance                        |          | screens  | GS membranes                       |
|             | perception                                  | GS       | separators<br>. classifiers  | . membrane structures              |
|             | pilot performance                           |          | sizing screens   | skin (structural member)           |
|             | pilot support systems                       | RT       | agitation  | structural members                 |
|             | reconnaissance                              | 111      | concentrators  | . membrane structures              |
|             | runway incursions                           |          | fluid filters  | skin (structural member)           |
|             | surveillance<br>threat evaluation           | c        | ∞ screens  | RT aircraft construction materials |
|             | trireat evaluation                          |          | shakers  | ∞ construction materials           |
|             |   |          | sieves   | hulls (structures)<br>metal shells |
| - 2         | mensions)                                   |          |  | shells (structural forms)          |
| GS          | size (dimensions)                           |          | Il muscle  | stressed-skin structures           |
| RT          | . grain size<br>fineness                    |          | led August 2004)   | thin walled shells                 |
| 111         | iliteriess                                  |          | Striated muscles having fibers con-<br>at either or both extremities with the bony | thin walls                         |
| -!!-        | 4   |          | ork of the body. These are found in  | toroidal shells                    |
| GS GS       | termination size determination              |          | icular and axial muscles.  | webs (supports)                    |
| 03          | . precipitation particle measurement        | UF       | striated muscle  |                                    |
| RT          | body measurement (biology)                  |          | voluntary muscle   | skin friction                      |
|             | classifiers                                 | GS       | anatomy  | UF friction pressure drop          |
|             | dimensional measurement                     |          | . musculoskeletal system   | GS friction                        |
| 0           | ∞ measurement                               |          | muscles  | . skin friction                    |
|             | particle size distribution                  | DT       | skeletal muscle  | friction drag aerodynamic drag     |
| ٥           | ∞ sizing                                    | RT       | muscular strongth  | supersonic drag                    |
|             |   |          | muscular strength smooth muscle  | viscous drag                       |
| size dis    | stribution                                  |          | striation  | RT aerodynamic heating             |
| DEF         | The study of the size of objects or         |          | Striation  | drag                               |
|             | s and their distribution.                   | skeleta  | l myocytes   | drag devices                       |
| GS          | size distribution                           |          | led December 2004)   | flow resistance                    |
|             | . particle size distribution                |          | muscle fibers  | fluid flow                         |
| RT          | drop size                                   |          |  | friction factor                    |
|             | mass distribution statistical distributions | skeleto  | n  | riblets                            |
|             | Statistical distributions                   | USE      | musculoskeletal system   | streamlining                       |
|             |   |          |  | ekin grafte                        |
|             | paration                                    | skewne   |  | <b>skin grafts</b><br>RT surgery   |
| UF<br>RT    | sizing (separation)                         | RT       | asymmetry  | RT surgery<br>therapy              |
| KI          | beneficiation classifiers                   |          | deformation<br>displacement  | ιισιαργ                            |
|             | classifiers<br>∞ classifying                |          | distortion   | skin resistance                    |
| 0           | concentrators                               |          | distribution moments   | GS electrical properties           |
|             | filtration                                  |          | eccentricity   | . electrical impedance             |
|             | flotation                                   |          | moments  | electrical impedance               |
|             | metal powder                                |          |  | skin resistance                    |
|             | particle size distribution                  | skid la  | ndings   | impedance                          |
|             | powder (particles)                          | RT       | air cushion landing systems  | . electrical impedance             |
| ٥           | ∞ separation                                |          | crash landing  | electrical resistance              |
|             | settling                                    |          | hydroplaning   | skin resistance                    |

| RI∝                               | resistance  |  | solar radiation   |                                       | rockoons   |
|-----------------------------------|---|--|---|---------------------------------------|--|
| skin ter                          | nperature (biology)   |  | sunlight zodiacal light   | Skylab                                | 1  |
|                                   | temperature   |  |   | UF                                    | SKYLAB space station (unmanned)  |
|                                   | skin temperature (biology)  | sky rad  | liation   | 00                                    | SL 1   |
| RI∝                               | ∍ biology<br>fever  | GS   | atmospheric radiation   | GS                                    | artificial satellites . orbital workshops  |
|                                   | hyperthermia  |  | . sky radiation<br>airglow  |                                       | Skylab 1   |
|                                   | hypothermia   |  | geocoronal emissions  |                                       | . space stations   |
|                                   |   |  | nightglow   |                                       | . Skylab 1   |
|                                   | nperature (non-biological) surface properties   |  | twilight glow   |                                       | laboratories . space laboratories  |
| 00                                | . surface temperature   |  | dayglow   |                                       | manned orbital laboratories  |
|                                   | skin temperature  |  | elves sprites (atmospheric physics)   |                                       | Skylab 1   |
|                                   | (non-biological)  |  | electromagnetic radiation   |                                       | manned spacecraft  |
|                                   | temperature . surface temperature   |  | . light (visible radiation)   |                                       | . manned orbital laboratories Skylab 1   |
|                                   | skin temperature  |  | sky radiation   |                                       | . orbital workshops  |
|                                   | (non-biological)  |  | airglow geocoronal emissions  |                                       | Skylab 1   |
| RT                                | aerodynamic heating   |  | nightglow   |                                       | stations   |
|                                   | aerothermodynamics  |  | twilight glow   |                                       | . space stations<br><b>Skylab 1</b>  |
| Skinner                           | boxes   |  | dayglow   | RT                                    | airlock modules  |
| RT                                | behavior  |  | elves sprites (atmospheric physics)   |                                       | command service modules  |
|                                   | psychological tests   | RT   | background radiation  |                                       | EREP   |
|                                   | psychometrics   |  | pyranometers  |                                       | multiple docking adapters space missions   |
| skirts                            |   | ۰  | o radiation   |                                       | space missions   |
| RT                                | afterbodies   |  | stratosphere radiation sunlight   | Skylab                                |  |
|                                   | boattails   |  | thermal radiation   | UF                                    | SL 2   |
|                                   | conical nozzles exhaust nozzles   |  | tropospheric radiation  | GS                                    | artificial satellites . orbital workshops  |
|                                   | foundations   |  |   |                                       | Skylab 2   |
| ~                                 | jet nozzles   |  | veys (astronomy)  |                                       | . space stations   |
|                                   | rocket nozzles  | GS   | observation   |                                       | Skylab 2   |
| skis                              |   |  | . sky surveys (astronomy)<br>surveys  |                                       | laboratories . space laboratories  |
| RT                                | hydrofoils  |  | . sky surveys (astronomy)   |                                       | manned orbital laboratories  |
|                                   | hydroplanes (surfaces)  | RT   | asteroid detection  |                                       | Skylab 2   |
|                                   | landing gear  |  | astronomical catalogs   |                                       | manned spacecraft  |
| Skua ro                           | ocket vehicles  |  | astronomy indexes (documentation)   |                                       | . manned orbital laboratories Skylab 2   |
|                                   | rocket vehicles   |  | northern sky  |                                       | . orbital workshops  |
|                                   | . sounding rockets  |  | Southern sky  |                                       | . Skylab 2   |
| DT                                | Skua rocket vehicles  |  |   |                                       | stations   |
|                                   | solid propellant rocket engines vehicles  | sky wa   |   |                                       | . space stations<br><b>Skylab 2</b>  |
|                                   |   | DEF<br>after ha  | In radio, radio energy that is received ving been reflected by the ionosphere.  | RT                                    | airlock modules  |
| skull                             |   | GS   | electromagnetic radiation   |                                       | command service modules  |
| GS                                | anatomy   |  | . radio waves   |                                       | EREP   |
|                                   | . head (anatomy) skull  |  | sky waves   |                                       | multiple docking adapters Saturn 1B launch vehicles  |
|                                   | cranium   | RT   | whistlers ground wave propagation   |                                       | Saturn 5 launch vehicles   |
|                                   | intracranial cavity   | IXI  | ionospheric noise   |                                       | space missions   |
|                                   | mastoids<br>. musculoskeletal system  |  |   |                                       |  |
|                                   |   |  |   | Ol-state                              | •  |
|                                   |   | Skyboli  | missile   | Skylab                                |  |
|                                   | bones   |  | missiles  | <b>Skylab</b><br>UF<br>GS             | SL 3   |
|                                   | bones<br>skull<br>cranium   |  | missiles<br>. ballistic missiles  | UF                                    | SL 3<br>artificial satellites<br>. orbital workshops   |
|                                   | bonesskullcraniumintracranial cavity  | GS   | missiles . ballistic missiles Skybolt missile   | UF                                    | SL 3<br>artificial satellites<br>. orbital workshops<br>Skylab 3   |
| RT                                | bones skull cranium intracranial cavity mastoids  |  | missiles<br>. ballistic missiles  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations   |
| RT                                | bonesskullcraniumintracranial cavity  | GS<br>RT   | missiles . ballistic missiles Skybolt missile   | UF                                    | SL 3<br>artificial satellites<br>. orbital workshops<br>Skylab 3   |
|                                   | bones skull cranium intracranial cavity mastoids forehead   | GS<br>RT<br>Skycrar  | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines   | UF                                    | SL 3 artificial satellites orbital workshops Skylab 3 space stations Skylab 3 laboratories space laboratories  |
| sky                               | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  | GS<br>RT<br>Skycrar<br>USE   | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines ne helicopter CH-54 helicopter  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories  |
|                                   | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  | GS<br>RT<br>Skycrar<br>USE<br>Skydro   | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines ne helicopter CH-54 helicopter  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories Skylab 3   |
| sky                               | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  | GS<br>RT<br>Skycrar<br>USE   | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines he helicopter CH-54 helicopter I (trademark) liquids  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories  |
| <b>sky</b><br>GS                  | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky   | GS<br>RT<br>Skycrar<br>USE<br>Skydro   | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids   | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories . Skylab 3 manned spacecraft   |
| <b>sky</b><br>GS                  | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow  | GS<br>RT<br>Skycrar<br>USE<br>Skydro   | missiles . ballistic missiles Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids Skydrol (trademark) esters  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops   |
| <b>sky</b><br>GS                  | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering  | GS<br>RT<br>Skycrar<br>USE<br><b>Skydro</b><br>GS                                      | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates   | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3   |
| <b>sky</b><br>GS                  | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow  | GS<br>RT<br>Skycrar<br>USE<br><b>Skydro</b><br>GS                                      | missiles . ballistic missiles Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids Skydrol (trademark) esters  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness   | RT Skycrar USE Skydro GS   | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3   |
| <b>sky</b><br>GS<br>RT            | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  skyight sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight  ghtness electromagnetic properties   | GS<br>RT<br>Skycrar<br>USE<br>Skydro<br>GS<br>RT                                       | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft  | UF                                    | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 corbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight  phtness electromagnetic properties . optical properties  | GS<br>RT<br>Skycrar<br>USE<br>Skydro<br>GS<br>RT                                       | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  | UF<br>GS                              | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . pace laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules   |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  skyight sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight  ghtness electromagnetic properties   | Skycrar<br>USE<br>Skydro<br>GS<br>RT<br>Skyhaw<br>USE                                  | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft  | UF<br>GS                              | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . space laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 . orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP   |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  skyight sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness electromagnetic properties . optical properties . brightness sky brightness airglow   | Skycrar<br>USE<br>Skydro<br>GS<br>RT<br>Skyhaw<br>USE<br>skyhoo<br>DEF                 | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft k balloons Large free balloons having plastic en-   | UF<br>GS                              | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness electromagnetic properties . brightness sky brightness airglow auroras  | Skycrar<br>USE<br>Skydro<br>GS<br>RT<br>Skyhaw<br>USE<br>skyhoo<br>DEF<br>velopes      | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft k balloons Large free balloons having plastic en- used especially for constant level me-  | UF<br>GS                              | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight  phtness electromagnetic properties . optical properties . brightness sky brightness airglow auroras cloud cover  | Skycrar USE Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog                        | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft  k balloons Large free balloons having plastic en- , used especially for constant level me- pical observations at very high altitudes.  | UF<br>GS                              | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness electromagnetic properties . optical properties . brightness sky brightness airglow auroras cloud cover daytime   | Skycrar USE Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog                        | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft k balloons Large free balloons having plastic en- used especially for constant level me-  | UF<br>GS                              | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles space missions  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness electromagnetic properties brightness sky brightness airglow auroras cloud cover daytime gegenschein glare  | Skydro GS Skydro GS RT Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog (Origina    | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter  I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft  k balloons Large free balloons having plastic en- , used especially for constant level me- jical observations at very high altitudes. illy a code name for a U.S. Navy project.) expandable structures . inflatable structures  | UF<br>GS<br>RT<br><b>Skylab</b><br>UF | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 . orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles space missions  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight  ghtness electromagnetic properties optical properties brightness sky brightness airglow auroras cloud cover daytime gegenschein glare light (visible radiation)                                | Skydro GS Skydro GS RT Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog (Origina    | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft  k balloons Large free balloons having plastic en- , used especially for constant level me- pical observations at very high altitudes. Illy a code name for a U.S. Navy project.) expandable structures . inflatable structures . balloons  | UF<br>GS<br>RT                        | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles space missions  4 SL 4 artificial satellites  |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness electromagnetic properties . optical properties . brightness sky brightness airglow auroras cloud cover daytime gegenschein glare light (visible radiation) light emission            | Skydro GS Skydro GS RT Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog (Origina    | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft A-4 aircraft A-4 processes Large free balloons having plastic enquised especially for constant level melical observations at very high altitudes. Illy a code name for a U.S. Navy project.) expandable structures . inflatable structures . balloons high altitude balloons        | UF<br>GS<br>RT<br><b>Skylab</b><br>UF | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . space laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 . orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles space missions  4 SL 4 artificial satellites . orbital workshops |
| sky<br>GS<br>RT<br>sky brig       | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight  phtness electromagnetic properties . optical properties . brightness sky brightness airglow auroras cloud cover daytime gegenschein glare light (visible radiation) light emission luminance | Skydro GS Skydro GS RT Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog (Origina GS | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter  I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  tk aircraft A-4 aircraft  k balloons Large free balloons having plastic en- jused especially for constant level me- jused observations at very high altitudes. llly a code name for a U.S. Navy project.) expandable structures . inflatable structures . balloons . high altitude balloons skyhook balloons | UF<br>GS<br>RT<br><b>Skylab</b><br>UF | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 . orbital workshops . Skylab 3 stations . Skylab 3 sitations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles space missions  4 SL 4 artificial satellites . orbital workshops . Skylab 4       |
| sky<br>GS<br>RT<br>sky brig<br>GS | bones skull cranium intracranial cavity mastoids forehead intercranial circulation  sky . night sky cloud cover clouds (meteorology) dayglow Rayleigh scattering sunlight ghtness electromagnetic properties . optical properties . brightness sky brightness airglow auroras cloud cover daytime gegenschein glare light (visible radiation) light emission            | Skydro GS Skydro GS RT Skydro GS RT Skyhaw USE skyhoo DEF velopes teorolog (Origina    | missiles . ballistic missiles . Skybolt missile solid propellant rocket engines  the helicopter CH-54 helicopter I (trademark) liquids . hydraulic fluids . Skydrol (trademark) esters phosphates plasticizers  the aircraft A-4 aircraft A-4 aircraft A-4 processes Large free balloons having plastic enquised especially for constant level melical observations at very high altitudes. Illy a code name for a U.S. Navy project.) expandable structures . inflatable structures . balloons high altitude balloons        | UF<br>GS<br>RT<br><b>Skylab</b><br>UF | SL 3 artificial satellites . orbital workshops . Skylab 3 . space stations . Skylab 3 laboratories . manned orbital laboratories . space laboratories . manned orbital laboratories . Skylab 3 manned spacecraft . manned orbital laboratories . Skylab 3 . orbital workshops . Skylab 3 stations . space stations . Skylab 3 airlock modules command service modules EREP multiple docking adapters Saturn 1B launch vehicles Saturn 5 launch vehicles space missions  4 SL 4 artificial satellites . orbital workshops |

# Skylab program

|   | anaga laboratorias   | CI 2  |   |  | aerodynamics  |
|---|--|---|---|--|---|
|   | . space laboratories   | SL 2  |   |  | aerouyriairiics   |
|   | manned orbital laboratories  | USE   | Skylab 2  |  | axisymmetric bodies   |
|   | Skylab 4   | 002   | y.u   | ٥  | ∘ bodies  |
|   | manned spacecraft  | SL 3  |   | · ·  | ducted bodies   |
|   | •  | USE   | Skylab 3  |  |   |
|   | . manned orbital laboratories  | USL   | Skylab 3  |  | fineness ratio  |
|   | Skylab 4   | CI 1  |   |  | missile bodies  |
|   | . orbital workshops  | SL 4  | 01 1-1 4  |  | power law bodies  |
|   | Skylab 4   | USE   | Skylab 4  | ٥  | ∘ sharpness   |
|   | stations   |   |   |  | streamlined bodies  |
|   | . space stations   | SL-3 ro   | cket engine   |  | symmetrical bodies  |
|   | Skylab 4   | GS  | engines   |  | • thin bodies   |
| рΤ  | airlock modules  |   | . rocket engines  |  | tilli bodies  |
| RT  |  |   | solid propellant rocket engines   | slender  | conos   |
|   | command service modules  |   | SL-3 rocket engine  |  | ******  |
|   | EREP   |   | OL o rooket engine  | GS   | cones   |
|   | multiple docking adapters  | slabs   |   |  | . conical bodies  |
|   | Saturn 1B launch vehicles  |   | L:01-4-   |  | slender cones   |
|   | Saturn 5 launch vehicles   | RT  | billets   |  | slender bodies  |
|   | space missions   |   | blocks  |  | . slender cones   |
|   | opado imporone   |   | flat plates   |  | symmetrical bodies  |
|   |  |   | metal plates  |  | . bodies of revolution  |
|   | program  |   | plates (structural members)   |  |   |
| GS  | programs   | ۰   | platforms   |  | conical bodies  |
|   | . NASA programs  |   | structural members  |  | slender cones   |
|   | NASA space programs  |   | Structural members  | RT   | aerodynamic configurations  |
|   | Skylab program   | -1  |   |  | axisymmetric bodies   |
|   | . space programs   | slags   |   |  | •   |
|   | NASA space programs  | RT  | aggregates  | slender  | wings   |
|   |  |   | reaction products   | UF   | high aspect ratio wings   |
|   | Skylab program   |   | wastes  | GS   | airfoils  |
| RT  | AAP 1 mission  |   |   | 00   |   |
|   | AAP 2 mission  | SLAM  |   |  | . wings   |
|   | AAP 3 mission  | USE   | supersonic low altitude missile   |  | slender wings   |
|   | AAP 4 mission  | USL   | supersonic low attitude inissile  |  | infinite span wings   |
|   | airlock modules  |   |   | RT   | fixed wings   |
|   |  | slammi  | ng  |  | wing planforms  |
|   | Apollo applications program  | RT  | fluid dynamics  |  | wing rock   |
|   | Apollo flights   |   | •   |  | wing rock   |
|   | Apollo project   | slant   |   |  |   |
|   | Apollo spacecraft  | USE   | slopes  |  | ness ratio  |
|   | ·  | USL   | siopes  | (add   | ed March 2000)  |
|   | Apollo telescope mount   |   | ,,  | USE  | aspect ratio  |
|   | Earth Resources Information System   |   | erception   |  |   |
|   | Earth Resources Program  | USE   | space perception  | slewing  | •   |
|   | Earth Resources Survey Program   |   |   |  |   |
|   | orbital workshops  | slashes   |   |  | Of a gyro, the rotation of the spin axis  |
|   | Saturn 1 workshop  | USE   | clearings (openings)  |  | by applying torque about the axis of  |
|   | Saturn 5 workshop  | 002   | olodinigo (opolinigo)   | rotation   | . In radar, changing the scale on the   |
|   | ·  | Clotor  | rhitala   | display.   |   |
|   | Saturn workshops   | Slater o  |   | ŔŤ   | antennas  |
|   | Spacelab   | GS  | orbitals  |  | error signals   |
|   |  |   | . Slater orbitals   |  |   |
| SKYI A  | B space station (unmanned)   | RT  | Hartree-Fock-Slater method  |  | positioning devices (machinery)   |
|   |  |   |   |  | radar tracking  |
| USE   | Skylab 1   | sleds   |   |  | servomotors   |
|   |  |   |   | ٥  | ∘ spinners  |
| Skylark   |  | GS  | surface vehicles  |  | Sp  |
| ÚSE   | Skylark rocket vehicle   |   | . sleds   | slicing  |   |
|   | <b>,</b>   |   | rocket propelled sleds  | GS   | auttin a  |
|   | and the state of t | RT  | dollies   |  | cutting   |
| 01 1 1  | rocket vehicle   |   |   |  | . slicing   |
|   |  | •                     | skidding  |  |   |
| Skylark<br>UF   | Skylark  |   | skidding<br>towed bodies  | RT   | metal cutting   |
|   |  |   | towed bodies  |  |   |
| UF  | Skylark rocket vehicles  |   | towed bodies tractors   |  | planing   |
| UF  | Skylark rocket vehicles . multistage rocket vehicles   |   | towed bodies  |  | planing planning  |
| UF  | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle  |   | towed bodies tractors   | RT   | planing<br>planning<br>scarfing   |
| UF  | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets   | sleep   | towed bodies tractors   | RT   | planing<br>planning<br>scarfing<br>separation   |
| UF<br>GS  | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle  | sleep   | towed bodies<br>tractors<br>trailers  | RT   | planing<br>planning<br>scarfing   |
| UF  | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets   | <b>sleep</b><br>UF  | towed bodies<br>tractors<br>trailers  | RT   | planing<br>planning<br>scarfing<br>separation   |
| UF<br>GS  | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle  | sleep   | towed bodies tractors trailers  drowsiness sleep  | RT   | planing<br>planning<br>scarfing<br>separation   |
| UF<br>GS<br>RT  | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines   | <b>sleep</b><br>UF  | towed bodies tractors trailers  drowsiness sleep . hypersomnia  | RT   | planing<br>planning<br>scarfing<br>separation   |
| UF<br>GS<br>RT<br>Skymas  | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines  | <b>sleep</b><br>UF  | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis   | RT 。   | planing<br>planning<br>scarfing<br>separation<br>splitting  |
| UF<br>GS<br>RT<br>Skymas  | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines   | <b>sleep</b><br>UF<br>GS                                    | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia  | RT<br>slicks<br>USE  | planing<br>planning<br>scarfing<br>separation<br>splitting  |
| UF<br>GS<br>RT<br>Skymas<br>USE   | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft  | <b>sleep</b><br>UF  | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis   | RT<br>slicks<br>USE<br>slides  | planing planning scarfing separation splitting  oil slicks  |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites  | <b>sleep</b><br>UF<br>GS                                    | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia  | RT<br>slicks<br>USE  | planing<br>planning<br>scarfing<br>separation<br>splitting  |
| UF<br>GS<br>RT<br>Skymas<br>USE   | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft  | <b>sleep</b><br>UF<br>GS                                    | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams drives  | slicks<br>USE<br>slides<br>USE   | planing planning scarfing separation splitting  oil slicks  chutes  |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites  | <b>sleep</b><br>UF<br>GS                                    | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin   | slicks<br>USE<br>slides<br>USE<br>slides (   | planing planning scarfing separation splitting  oil slicks  chutes microscopy)  |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites  | <b>sleep</b><br>UF<br>GS                                    | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams od rives melatonin rapid eye movement state   | slicks<br>USE<br>slides<br>USE<br>slides (<br>DEF  | planing planning scarfing separation splitting  oil slicks  chutes microscopy) Rectangular pieces of glass on which   |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet   | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites  | <b>sleep</b><br>UF<br>GS                                    | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin   | slicks<br>USE<br>slides<br>USE<br>slides (<br>DEF  | planing planning scarfing separation splitting  oil slicks  chutes microscopy)  |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS   | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks   | sleep<br>UF<br>GS<br>RT                                     | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams drives melatonin rapid eye movement state rest  | slicks USE slides USE slides ODEF objects  | planing planning scarfing separation splitting  oil slicks  chutes microscopy) Rectangular pieces of glass on which   |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS   | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites  | sleep<br>UF<br>GS<br>RT                                     | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest eprivation  | slicks<br>USE<br>slides<br>USE<br>slides (<br>DEF<br>objects<br>tion.                        | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examina  |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS   | Skylark rocket vehicles . multistage rocket vehicles . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks   | sleep<br>UF<br>GS<br>RT                                     | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams drives melatonin rapid eye movement state rest  | slicks USE slides USE slides ODEF objects  | planing planning scarfing separation splitting  oil slicks  chutes microscopy) Rectangular pieces of glass on which   |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS<br>RT   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites communication satellites satellite networks UK satellites  | sleep<br>UF<br>GS<br>RT                                     | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation   | slicks<br>USE<br>slides<br>USE<br>slides (<br>DEF<br>objects<br>tion.<br>RT                  | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examina  |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS<br>RT   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites ler aircraft   | sleep<br>UF<br>GS<br>RT<br><br>sleep d                      | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams edrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation   | slicks USE slices USE slides ( DEF objects tion. RT sliding                                  | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examinal   |
| UF<br>GS<br>RT<br>Skymas<br>USE<br>Skynet<br>GS<br>RT   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites communication satellites satellite networks UK satellites  | sleep<br>UF<br>GS<br>RT                                     | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness   | slicks<br>USE<br>slides<br>USE<br>slides (<br>DEF<br>objects<br>tion.<br>RT                  | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examina  |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft   | sleep<br>UF<br>GS<br>RT<br><br>sleep d                      | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation consciousness fatigue (biology)   | slicks USE slides USE slides ( DEF objects tion. RT sliding DEF                              | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examinal   |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock  | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites ler aircraft A-1 aircraft  | sleep<br>UF<br>GS<br>RT<br><br>sleep d                      | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation consciousness fatigue (biology) insomnia  | slicks USE slides USE slides USE slides( DEF objects tion. RT sliding DEF bodies;            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two   |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock  | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft   | sleep<br>UF<br>GS<br>RT<br><br>sleep d                      | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation consciousness fatigue (biology)   | slicks USE slides USE slides ( DEF objects tion. RT sliding DEF bodies i between             | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies.   |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock  | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites ler aircraft A-1 aircraft  | sleep<br>UF<br>GS<br>RT<br><br>sleep d                      | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation consciousness fatigue (biology) insomnia  | slicks USE slides USE slides USE slides( DEF objects tion. RT sliding DEF bodies;            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension  |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE                                       | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft teet aircraft D-558 aircraft  | sleep<br>UF<br>GS<br>RT<br><br>sleep d                      | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  | slicks USE slides USE slides ( DEF objects tion. RT sliding DEF bodies i between             | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. Interfacial tension lubrication   |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock USE  Skystre.                            | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites communication satellites satellite networks UK satellites der aircraft A-1 aircraft set aircraft D-558 aircraft ak aircraft  | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness   | slicks USE slides USE slides ( DEF objects tion. RT sliding DEF bodies i between             | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension  |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock USE  Skystre.                            | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft teet aircraft D-558 aircraft  | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING)   | slicks USE slides USE slides( DEF objects tion. RT sliding DEF bodies: betweer RT            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy) Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. Interfacial tension lubrication   |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock USE  Skystre.                            | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites communication satellites satellite networks UK satellites der aircraft A-1 aircraft set aircraft D-558 aircraft ak aircraft  | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams orlives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors  | slicks USE slides USE slides( DEF objects tion. RT sliding DEF bodies: betweer RT            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension lubrication mass flow slip   |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skystre USE                          | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft tet aircraft D-558 aircraft ak aircraft D-558 aircraft  | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings  | slicks USE slides USE slides( DEF objects tion. RT sliding DEF bodies: betweer RT            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. Interfacial tension lubrication mass flow slip slumping  |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock USE  Skystre USE  Skyvan                 | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites der aircraft A-1 aircraft at aircraft D-558 aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft   | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners  | slicks USE slides USE slides( DEF objects tion. RT sliding DEF bodies: betweer RT            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension lubrication mass flow slip   |
| UF GS  RT  Skymas USE  Skynet GS  RT  Skyraid USE  Skyrock USE  Skystre USE  Skyvan                 | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft tet aircraft D-558 aircraft ak aircraft D-558 aircraft  | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings  | slicks USE slides USE slides( DEF objects tion. RT sliding DEF bodies ibetween RT            | planing planning scarfing separation splitting oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact the bodies. Interfacial tension lubrication mass flow slip slumping static friction  |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skystre. USE  Skyvan USE             | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites der aircraft A-1 aircraft set aircraft D-558 aircraft aircraft aircraft aircraft aircraft SC-7 aircraft  | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners  | slicks USE slides USE slides USE slides( DEF objects tion. RT sliding DEF bodies; between RT | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension lubrication mass flow slip slumping static friction  contact   |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skystre. USE  Skyvan USE             | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites der aircraft A-1 aircraft at aircraft D-558 aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft aircraft   | sleep<br>UF<br>GS<br>RT<br>sleep d<br>GS<br>RT              | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners fittings   | slicks USE slides USE slides( DEF objects tion. RT sliding DEF bodies ibetween RT            | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact the bodies. interfacial tension lubrication mass flow slip slumping static friction  contact  (USE OF A MORE SPECIFIC TERM IS   |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skyvock USE  Skyvoch USE  Skyvon USE | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites der aircraft A-1 aircraft set aircraft D-558 aircraft aircraft aircraft aircraft aircraft SC-7 aircraft  | sleep d<br>GS<br>sleep d<br>GS<br>RT<br>sleeves<br>SN<br>RT | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams drives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners fittings joints (junctions)                         | slicks USE slides USE slides USE slides( DEF objects tion. RT sliding DEF bodies; between RT | planing planning scarfing separation splitting oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension lubrication mass flow slip slumping static friction  contact (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                               |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skyvock USE  Skyvoch USE  Skyvon USE | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft b-558 aircraft aket aircraft D-558 aircraft aircraft aircraft SC-7 aircraft rior aircraft   | sleep d GS RT sleeves SN RT                                 | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners fittings joints (junctions)                        | slicks USE slides USE slides ( DEF objects tion. RT sliding DEF bodies between RT            | planing planning scarfing separation splitting oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact the bodies. interfacial tension lubrication mass flow slip slumping static friction  contact  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                   |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skyvan USE  Skyvan USE  Skyvan USE   | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft b-558 aircraft aircraft aircraft aircraft aircraft SC-7 aircraft rior aircraft  | sleep d<br>GS<br>sleep d<br>GS<br>RT<br>sleeves<br>SN<br>RT | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams edrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners fittings joints (junctions)  bodies slender bodies | slicks USE slides USE slides USE slides( DEF objects tion. RT sliding DEF bodies; between RT | planing planning scarfing separation splitting  oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact in the bodies. interfacial tension lubrication mass flow slip slumping static friction  contact  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) contact loads |
| UF GS  RT  Skymas USE  Skynet GS RT  Skyraid USE  Skyrock USE  Skyvock USE  Skyvoch USE  Skyvon USE | Skylark rocket vehicles . multistage rocket vehicle . Skylark rocket vehicle . sounding rockets . Skylark rocket vehicle solid propellant rocket engines ster aircraft C-54 aircraft satellites artificial satellites . Skynet satellites communication satellites satellite networks UK satellites er aircraft A-1 aircraft b-558 aircraft aircraft aircraft aircraft aircraft SC-7 aircraft rior aircraft  | sleep d GS RT sleeves SN RT                                 | towed bodies tractors trailers  drowsiness sleep . hypersomnia . hypnosis . insomnia dreams odrives melatonin rapid eye movement state rest  eprivation deprivation . sleep deprivation consciousness fatigue (biology) insomnia wakefulness  (EXCLUDES CLOTHING) connectors couplings fasteners fittings joints (junctions)                        | slicks USE slides USE slides ( DEF objects tion. RT sliding DEF bodies between RT            | planing planning scarfing separation splitting oil slicks  chutes  microscopy)  Rectangular pieces of glass on which are mounted for microscopic examinal microscopy  Relative displacement between two along a surface, without loss of contact the bodies. interfacial tension lubrication mass flow slip slumping static friction  contact  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                   |

|           | vapor phase lubrication                                 |            | landforms                           |          | slush hydrogen   |
|-----------|---|------------|-------------------------------------|----------|--|
| sliding   | friction  |            | landslides<br>level (horizontal)    | slurry r | propellants  |
|           | friction  |            | pitch (inclination)                 | GS       |  |
|           | . kinetic friction                                      | ۰          | o profiles                          |          | . rocket propellants                                     |
|           | sliding friction  |            | ∘ rakes                             |          | liquid rocket propellants                                |
| RT        | coefficient of friction                                 |            | ramp functions                      |          | slurry propellants                                       |
|           | dry friction  |            | ramps (structures)                  |          | slush hydrogen   |
|           | electric contacts                                       |            | topography                          | RT       | aircraft fuels   |
| ~         | sliding contact   |            |                                     |          | colloidal propellants                                    |
|           | static friction   | sloshing   |                                     |          | dispersions  |
|           | tribometers   | USE        | liquid sloshing                     |          | gelled rocket propellants                                |
|           | wear  |            |                                     |          | metal fuels  |
|           | wear resistance   | slot ant   |                                     |          | metal propellants<br>monopropellants                     |
| slip      |   | UF<br>GS   | slotted antennas<br>antennas        |          | slurries   |
| SN        | (USE OF A MORE SPECIFIC TERM IS                         | GS         | . directional antennas              |          | solid rocket propellants                                 |
|           | RECOMMENDEDCONSULT THE TERMS                            |            | slot antennas                       |          | cond rooket propolitante                                 |
| RT        | LISTED BELOW) plastic deformation                       | RT         | antenna design                      | slush    |  |
| IXI       | polyslips   |            | horn antennas                       | RT       | bay ice  |
|           | sideslip  |            | microwave antennas                  |          | cryogenic rocket propellants                             |
|           | sliding   |            | radant                              |          | ice  |
|           | 9   |            | radar antennas                      |          | runway conditions  |
| slip ban  | ds  |            | waveguide antennas                  |          | snow   |
| USE       | edge dislocations                                       |            |                                     |          | water  |
|           |   | slots      |                                     | elueb b  | ydrogen  |
| slip cas  |   | GS         | slots                               |          | ed March 1990)   |
| GS        | forming techniques                                      | БТ         | . wing slots                        | GS       | propellants  |
|           | . casting   | RT         | lift devices                        | 00       | . rocket propellants                                     |
|           | slip casting  |            | louvers                             |          | liquid rocket propellants                                |
| slip flov | W   |            | openings<br>slits                   |          | slurry propellants                                       |
| SN        | (LIMITED TO RAREFIED GAS FLOW IN                        |            | Silto                               |          | slush hydrogen   |
| 0.1       | THE REGION BETWEEN KNUDSEN                              | slotted :  | antennas                            | RT       | hydrogen fuels   |
|           | NUMBERS 0. 01 AND 0. 1<br>ONLYEXCLUDES TRANSITION FLOW, | USE        | slot antennas                       |          | liquid hydrogen  |
|           | FREE MOLECULE FLOW CREEP, SHEAR                         | 002        |                                     |          | slurries   |
| DEE       | FLOW, AND PLASTIC FLOW)                                 | slotted    | wind tunnels                        | 0/1/     |  |
| DEF       | Rarefied gas flow in the region be-                     | GS         | test facilities                     | SLV      | Ctandard Laurah Vahialaa                                 |
|           | inudsen numbers 0. 01 and 0. 1. fluid flow              |            | . wind tunnels                      | USE      | Standard Launch Vehicles                                 |
| GG        | . gas flow  |            | slotted wind tunnels                | SIV (sc  | oft landing vehicles)                                    |
|           | molecular flow  | RT         | supersonic wind tunnels             |          | soft landing spacecraft                                  |
|           | slip flow   |            | transonic wind tunnels              | 002      | oor ianang opacocian                                     |
| RT        | continuum flow  |            | trisonic wind tunnels               | SLWT (   | propellant tank)   |
|           | free molecular flow                                     |            | vents                               | (add     | ed June 1998)  |
|           | low density wind tunnels                                | 01         | _                                   | USE      | external tanks   |
|           | rarefied gas dynamics                                   | Slovaki    |                                     |          | propellant tanks   |
|           | transition flow   | (add<br>GS | ed September 1994)<br>nations       |          |  |
|           |   | GS         | . Slovakia                          | SM-65    |  |
| slipstre  |   | RT         | Czech Republic                      | USE      | Atlas launch vehicles                                    |
| GS        | wakes   | 131        | Czechoslovakia                      | 014.00   |  |
|           | . aircraft wakes  |            | Europe                              | SM-68    |  |
|           | slipstreams propeller slipstreams                       |            |                                     | USE      | Titan 1 ICBM   |
|           | . turbulent wakes                                       | slow ne    | utrons                              | SM-68F   | 3 missile  |
|           | slipstreams   | USE        | thermal neutrons                    |          | Titan 2 ICBM   |
|           | propeller slipstreams                                   |            |                                     | 002      | man 2 105m   |
| RT        | backwash  | SLR (ra    | nging)                              | SMA (ir  | nage analysis)   |
|           | Strouhal number   |            | ed July 2001)                       |          | ed July 2000)  |
|           | turbulence  | USE        | satellite laser ranging             | USE      | spectral mixture analysis                                |
|           |   |            |                                     |          |  |
| slits     |   | sludge     |                                     | Small A  | stronomy Satellite 1                                     |
| GS        | openings  | DEF        | A water-formed sedimentary deposit. | USE      | SAS-1  |
|           | . slits   | GS         | sludge                              |          |  |
| RT        | apertures   | рт         | . activated sludge deposits         |          | stronomy Satellite 2                                     |
|           | Fresnel reflectors                                      | RT         | liquid wastes                       | USE      | SAS-2  |
|           | slots   |            | mud                                 | Small A  | stronomy Satellite 3                                     |
| slivers   |   |            | ocean bottom                        |          | SAS-3  |
| RT        | fibers  |            | organic wastes (fuel conversion)    | OOL      | 5A5-5  |
| 111       | wood  |            | reaction products                   | Small A  | stronomy Satellites                                      |
|           |   |            | sediments                           |          | SAS  |
| slopes    |   |            | sewage treatment                    |          |  |
| DEF       | The inclined surfaces of any part of the                |            | solid wastes                        | small p  | erturbation flow   |
| Earth's   | surface, as in hillslopes; also broad parts             |            | waste treatment                     | GS       | fluid flow   |
| of a con  | tinent descending toward an ocean, as                   |            | wastes                              |          | . small perturbation flow                                |
|           | Pacific slope. Used for cant, slant, and                |            |                                     | RT       | flow distortion  |
| steepne   |   | slumpii    |                                     |          | oscillating flow   |
| UF        | cant  | RT         | geomorphology                       | a        | otallita taabuulaa                                       |
|           | slant   |            | mass flow                           |          | atellite technology                                      |
| GS        | steepness   |            | sliding                             | ·        | ed January 1996)<br>Small Satollita Tachnology Initiativ |
| GS        | slopes . glide paths                                    | slurries   | •                                   | UF       | Small Satellite Technology Initiative<br>SSTI            |
| RT        | angles (geometry)                                       | GS         | mixtures                            | GS       | technologies   |
| 13.1      | cliffs  | 63         | . slurries                          | GS       | . small satellite technology                             |
|           | escarpments   | RT         | dispersions                         | RT       | cost reduction   |
| ~         | grade   | 131        | emulsions                           | 111      | microsatellites  |
|           | gradients   |            | gels                                |          | nanosatellites   |
|           | height  |            | rheocasting                         |          | remote sensing   |
| ~         | inclination   |            | slurry propellants                  |          | satellite design   |
|           |   |            |                                     |          |  |

small scientific satellites small scientific satellites video data wind profiles smoldering Small Satellite Technology Initiative (added October 2001) (added July 1997) USE small satellite technology A slow, flameless combustion of a solid USE montmorillonite fuel. small scientific satellites GS combustion smell GS artificial satellites USF olfactory perception smoldering . scientific satellites RT burning rate ... small scientific satellites combustion stability smelting . . . Submillimeter Wave Astronomy erosive burning melting RT Satellite ∞ metallurgy ... Transition Region and Coronal flammability reduction (chemistry) Explorer refining RT microsatellites nanosatellites smooth muscle Smith chart small satellite technology (added August 2004) electrical impedance DEF Unstriated and unstriped muscle, one impedance of the muscles of the internal organs, blood Small Water Plane Area Twin Hull polar coordinates vessels, hair follicles, etc. Contractile elements USE SWATH (ship) reactance are elongated, usually spindle-shaped cells with standing wave ratios centrally located nuclei. Smooth muscle fibers transmission lines smallpox are bound together into sheets or bundles by waveguides GS diseases reticular fibers and frequently elastic nets are . infectious diseases also abundant. SMM-A . . viral diseases involuntary muscle USE Solar Maximum Mission-A ... smallpox GS anatomy . musculoskeletal system smog . . muscles smart materials air pollution . . smooth muscle (added March 1998) air sampling DEF Engineered materials capable of remuscle cells carbon monoxide sponding to their environment to a significant muscular function combustion products degree, by virtue of intrinsic properties and/or skeletal muscle environmental chemistry built-in sensor/actuator elements. Applications of these materials include vibration suppression/ isolation, precision positioning, damage detection and treatile design and treatile design. exhaust gases smoothing flames GS smoothing fog tion, and tunable devices. . data smoothing hydrocarbon combustion adjusting intelligent materials hydrocarbon poisoning flattening GS smart materials lead poisoning honing . thermochromic coatings particulates RT actuators levelina smoke planing biomimetics polishing composite materials smoke electrorheological fluids roughness mixtures GS structured grids (mathematics) electrostriction . dispersions ferroelastic materials . . plastisols SMSferroelasticity ... smoke USF Synchronous Meteorological ferroelectric materials aerosols ferromagnetic materials Satellite air pollution magnetorheological fluids biomass burning SMS<sub>1</sub> ∞ materials combustion products DFF A meteorological satellite in synchropiezoelectric actuators dust nous orbit over the Atlantic Ocean to give covpiezoelectric ceramics exhaust gases erage to the Eastern US. It was launched in May ∞ sensors fire damage 1974 and is no longer operational, but still in shape memory alloys fog orbit. smart structures forest fires artificial satellites GS vibration damping fumes . meteorological satellites haze detection . . Synchronous Earth Observatory smart structures ∞ markers satellite (added August 1990) particles SMS 1 Structures and/or structural compoparticulates . . Synchronous Meteorological nents which contain embedded internal sensors. smog Satellite The sensors serve as lifetime health monitors smoldering ... SMS 1 analogous to a central nervous system, and give soot . synchronous satellites information on structural properties, providing real time nondestructive evaluation.

UF intelligent structures vapors ... Synchronous Earth Observatory visibility satellite ... SMS 1 RT active control smoke abatement . . Synchronous Meteorological adaptive control aerosols Satellite biomimetics air pollution . SMS 1 composite structures carbon dioxide removal GOES 2 fiber optics exhaust gases NOAA satellites large space structures pollution piezoelectric actuators soot SMS 2 smart materials

#### smear

RT frequency response image contrast signal fading television transmission

space station structures

spacecraft structures

strain measurement

structural members

tensegrity structures

structures

structural engineering

systems health monitoring

gas detectors safety devices signal processing

smoke detectors

#### smoke trails

RT ∞ tracks wind direction wind measurement

GS measuring instruments

fire prevention

fumes

. indicating instruments

. smoke detectors

Satellite ... SMS 2

. synchronous satellites Synchronous Earth Observatory satellite

. . Synchronous Meteorological

. . Synchronous Earth Observatory

Meteorological satellite in synchronous

orbit over Honolulu to give coverage to the

Western US. It was launched in February 1975

and is no longer operational, but still in orbit.

. meteorological satellites

satellite

GS artificial satellites

... SMS 2

|         | SMS 2  |                        | heat exchangers   |              | . nuclear power reactors   |
|---------|--|------------------------|---|--------------|--|
|         | . Synchronous Meteorological   |                        | nuclear power reactors  |              | space power reactors   |
|         | Satellite  |                        | SNAPTRAN reactor  |              | fission electric cells   |
|         | SMS 2  |                        | space power unit reactors   |              | SNAP 4   |
| RT      | GOES 2   |                        | systems   | RT           | space power unit reactors  |
|         | NOAA satellites  |                        | thermionic converters   | 131          | opaco power anii reactore  |
|         | . vo. s. vocamos   |                        | thermionic power generation   | SNAP 7       | ,  |
| SMS (S  | huttle)  |                        | thermoelectric generators   | GS           | auxiliary power sources  |
|         | Shuttle Mission Simulator  |                        | thermoelectric power generation   |              | . nuclear auxiliary power units  |
| 002     |  |                        | Transient Reactor Test Facility   |              | SNAP   |
| SMII (n | naneuvering units)   |                        | turbogenerators   |              | SNAP 7   |
|         | self maneuvering units   |                        | turbogenerators   |              | electric generators  |
| 002     | con manoavoring anno   | SNAP 1                 |   |              | . direct power generators  |
| S-N dia | grams  | GS .                   | auxiliary power sources   |              | radioisotope batteries   |
| UF      | fatigue diagrams   | 00                     | . nuclear auxiliary power units   |              | SNAP 7   |
| GS      | diagrams   |                        | SNAP  |              | thermoelectric generators  |
| 00      | . S-N diagrams   |                        | SNAP 1  |              | SNAP 7   |
| RT      | bending fatigue  |                        | nuclear electric power generation   |              | nuclear electric power generation  |
| 111     | cyclic loads   |                        | . nuclear auxiliary power units   |              | . nuclear auxiliary power units  |
|         | fatigue (materials)  |                        | SNAP  |              | SNAP   |
|         | fatigue life   |                        | SNAP 1  |              | SNAP 7   |
|         |  | DT                     |   |              | SNAP /   |
|         | fatigue tests  | KI                     | heat exchangers   | SNAP 8       | •  |
|         | metal fatigue  |                        | turbogenerators   | GS           |  |
|         | stress analysis  | SNAP 2                 |   | 63           | auxiliary power sources  |
|         | stress cycles  |                        |   |              | . nuclear auxiliary power units SNAP   |
|         | stress measurement   | GS                     | auxiliary power sources   |              |  |
|         | stress ratio   |                        | . nuclear auxiliary power units   |              | fission electric cells   |
|         |  |                        | SNAP  |              | SNAP 8   |
| snails  |  |                        | fission electric cells  |              | space power reactors   |
| GS      | animals  |                        | SNAP 2  |              | fission electric cells   |
|         | . invertebrates  |                        | space power reactors  |              | SNAP 8   |
|         | mollusks   |                        | fission electric cells  |              | nuclear electric power generation  |
|         | snails   |                        | SNAP 2  |              | . nuclear auxiliary power units  |
|         |  |                        | nuclear electric power generation   |              | SNAP   |
| snakes  |  |                        | . nuclear auxiliary power units   |              | fission electric cells   |
| GS      | animals  |                        | SNAP  |              | SNAP 8   |
|         | . vertebrates  |                        | fission electric cells  |              | space power reactors   |
|         | reptiles   |                        | SNAP 2  |              | fission electric cells   |
|         | snakes   |                        | space power reactors  |              | SNAP 8   |
|         |  |                        | fission electric cells  |              | . nuclear power reactors   |
| snaking |  |                        | SNAP 2  |              | space power reactors   |
| USE     | lateral oscillation  |                        | . nuclear power reactors  |              | fission electric cells   |
|         |  |                        | space power reactors  |              | SNAP 8   |
| SNAP    |  |                        | fission electric cells  |              | nuclear reactors   |
| UF      | Systems for Nuclear Auxiliary Power  |                        | SNAP 2  |              |  |
|         | auxiliary power sources  |                        |   |              | . nuclear power reactors   |
|         |  |                        | nuclear reactors  |              | space power reactors   |
| GS      |  |                        |   |              |  |
| GS      | . nuclear auxiliary power units  |                        | . nuclear power reactors  |              | fission electric cells   |
| GS      | SNAP   |                        | space power reactors  |              | SNAP 8   |
| GS      | SNAP fission electric cells  |                        | space power reactors fission electric cells   | RT           | SNAP 8<br>heat exchangers  |
| GS      | SNAP fission electric cells SNAP 2   |                        | space power reactors fission electric cells SNAP 2  | RT           | SNAP 8 heat exchangers space power unit reactors   |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4  | RT                     | space power reactors fission electric cells SNAP 2 heat exchangers  | RT           | SNAP 8<br>heat exchangers  |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8   | RT                     | space power reactors fission electric cells SNAP 2  |              | heat exchangers space power unit reactors turbogenerators  |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A  | RT                     | space power reactors fission electric cells SNAP 2 heat exchangers  | RT<br>SNAP 9 | heat exchangers space power unit reactors turbogenerators  |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1   | RT                     | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors  |              | heat exchangers space power unit reactors turbogenerators  |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 1  | RT<br>SNAP 3           | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  | SNAP 9       | heat exchangers space power unit reactors turbogenerators  |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 3 SNAP 7   |                        | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  auxiliary power sources   | SNAP 9       | heat exchangers space power unit reactors turbogenerators  A  auxiliary power sources . nuclear auxiliary power units . SNAP   |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 1  | SNAP 3                 | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  auxiliary power sources   | SNAP 9       | heat exchangers space power unit reactors turbogenerators  A auxiliary power sources . nuclear auxiliary power units   |
| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 3 SNAP 7   | SNAP 3                 | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  | SNAP 9       | heat exchangers space power unit reactors turbogenerators  A  auxiliary power sources . nuclear auxiliary power units . SNAP   |
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| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 3 SNAP 7 SNAP 9A SNAP 9A   | SNAP 3                 | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  auxiliary power sources . nuclear auxiliary power units SNAP SNAP 3   | SNAP 9       | heat exchangers space power unit reactors turbogenerators  A auxiliary power sources . nuclear auxiliary power units . SNAP SNAP 9A  |
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| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 3 SNAP 7 SNAP 9A SNAP 11 SNAP 11 SNAP 15 SNAP 15 SNAP 17 SNAP 17 SNAP 18 SNAP 21 SNAP 21 SNAP 21 SNAP 23 SNAP 27 SNAP 27 SNAP 29 SNAP 29 SNAP 50 nuclear electric power generation nuclear auxiliary power units SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 10A SNAP 1 SNAP 1  | SNAP 3<br>GS<br>SNAP 4 | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  auxiliary power sources . nuclear auxiliary power units SNAP SNAP 3 electric generators . thermoelectric generators thermoelectric generators SNAP 3 nuclear electric power generation . nuclear auxiliary power units SNAP SNAP 3  auxiliary power sources . nuclear auxiliary power units SNAP SNAP 4 space power reactors fission electric cells SNAP 4  | SNAP 9<br>GS | heat exchangers space power unit reactors turbogenerators  A auxiliary power sources . nuclear auxiliary power units . SNAP . SNAP 9A electric generators . idirect power generators . radioisotope batteries . SNAP 9A . thermoelectric generators . SNAP 9A nuclear electric power generation nuclear auxiliary power units . SNAP . SNAP 9A  OA auxiliary power sources . nuclear auxiliary power units . SNAP . SNAP 9A  OA  auxiliary power sources . nuclear auxiliary power units . SNAP . space power reactors . fission electric cells . SNAP 10A   |
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| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 1 SNAP 3 SNAP 7 SNAP 9A SNAP 11 SNAP 13 SNAP 15 SNAP 15 SNAP 17 SNAP 19 SNAP 21 SNAP 21 SNAP 20 SNAP 27 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 4 SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 1 SNAP 3 SNAP 3 SNAP 7 SNAP 9A  | SNAP 3<br>GS<br>SNAP 4 | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  auxiliary power sources . nuclear auxiliary power units . SNAP SNAP 3 electric generators . thermoelectric generators SNAP 3 nuclear electric power generation . nuclear auxiliary power units SNAP 3  auxiliary power sources . unclear auxiliary power units SNAP SNAP 3  auxiliary power sources . nuclear auxiliary power units SNAP fission electric cells SNAP 4 space power reactors fission electric cells SNAP 4 space power generation snAP 4 nuclear electric power generation nuclear auxiliary power units   | SNAP 9<br>GS | heat exchangers space power unit reactors turbogenerators  A  auxiliary power sources . nuclear auxiliary power units . SNAP . SNAP 9A electric generators . direct power generators . radioisotope batteries . SNAP 9A . thermoelectric generators . SNAP 9A nuclear electric power generation nuclear auxiliary power units . SNAP . SNAP 9A  OA  auxiliary power sources . nuclear auxiliary power units . SNAP . SNAP 10A . space power reactors . fission electric cells . SNAP 10A electric generators . direct power generation . SNAP 10A electric generators . direct power generators . direct power generators  |
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| GS      | SNAP fission electric cells SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 1 SNAP 3 SNAP 7 SNAP 9A SNAP 11 SNAP 13 SNAP 15 SNAP 15 SNAP 17 SNAP 19 SNAP 21 SNAP 21 SNAP 20 SNAP 27 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 29 SNAP 4 SNAP 2 SNAP 4 SNAP 8 SNAP 10A SNAP 1 SNAP 1 SNAP 3 SNAP 3 SNAP 7 SNAP 9A  | SNAP 3<br>GS<br>SNAP 4 | space power reactors fission electric cells SNAP 2 heat exchangers space power unit reactors turbogenerators  auxiliary power sources . nuclear auxiliary power units SNAP SNAP 3 electric generators . thermoelectric generators thermoelectric generators SNAP 3 nuclear electric power generation . nuclear auxiliary power units SNAP SNAP 3  auxiliary power sources . nuclear auxiliary power units SNAP SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation . nuclear auxiliary power units SNAP 4 space power reactors fission electric cells SNAP 4 nuclear electric power generation nuclear auxiliary power units SNAP 4 nuclear electric power generation snAP 4 nuclear electric power generation snAP 5 fission electric cells  | SNAP 9<br>GS | heat exchangers space power unit reactors turbogenerators  A  auxiliary power sources . nuclear auxiliary power units . SNAP . SNAP 9A electric generators . direct power generators . radioisotope batteries . SNAP 9A . thermoelectric generators . SNAP 9A nuclear electric power generation nuclear auxiliary power units . SNAP . SNAP 9A  OA  auxiliary power sources . nuclear auxiliary power units . SNAP . SNAP 10A . space power reactors . fission electric cells . SNAP 10A electric generators . direct power generation . SNAP 10A electric generators . direct power generators . direct power generators  |
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nuclear reactors

RT electric generators

. nuclear power reactors

|            | space power reactors                                    | SNAP 19   | . Snapshot satellite  |
|------------|---|---|---|
|            | fission electric cells SNAP 10A                         | SNAP 21   | RT SNAP 10A   |
|            | nuclear reactors  | GS auxiliary power sources  | SNAPTRAN reactor  |
|            | . nuclear power reactors                                | . nuclear auxiliary power units                                   | RT ∞ reactors   |
|            | space power reactors                                    | SNAP  | SNAP  |
|            | fission electric cells                                  | SNAP 21   |   |
|            | SNAP 10A  | electric generators   | snatching   |
| RT         | heat exchangers   | . direct power generators   | USE spacecraft recovery   |
|            | Snapshot satellite                                      | radioisotope batteries  | SNC meteorites  |
| SNAP       | 11  | SNAP 21   | (added March 1998)  |
| GS         | auxiliary power sources                                 | thermoelectric generators<br>SNAP 21                              | DEF Meteorites with petrologic characteris  |
|            | . nuclear auxiliary power units                         | nuclear electric power generation                                 | tics, isotopic signatures, trapped gas composi  |
|            | SNAP  | . nuclear auxiliary power units                                   | tions, and relatively young crystallization age   |
|            | SNAP 11   | SNAP  | (less than 1. 3 billion years), which togethe   |
|            | electric generators                                     | SNAP 21   | point to a Martian origin. The name of these  |
|            | . direct power generators                               | SNAP 23   | meteorites is derived from first three known examples Shergotty, Nakhla, and Chassigny. |
|            | radioisotope batteries SNAP 11                          | GS auxiliary power sources  | UF Martian meteorites   |
|            | thermoelectric generators                               | . nuclear auxiliary power units                                   | Shergotty Nakhla Chassigny  |
|            | SNAP 11   | SNAP  | meteorites  |
|            | nuclear electric power generation                       | SNAP 23   | GS celestial bodies   |
|            | . nuclear auxiliary power units                         | electric generators   | . meteorites  |
|            | SNAP  | . direct power generators   | stony meteorites  |
|            | SNAP 11   | . radioisotope batteries  | achondrites   |
| SNAP       | 13  | SNAP 23   | <b>SNC meteorites</b><br>RT chassignites  |
| GS         | auxiliary power sources                                 | . thermoelectric generators SNAP 23                               | Mars (planet)   |
|            | . nuclear auxiliary power units                         | nuclear electric power generation                                 | Mars surface  |
|            | SNAP  | . nuclear auxiliary power units                                   | nakhlites   |
|            | SNAP 13   | . SNAP  | shergottites  |
|            | electric generators                                     | SNAP 23   | and the first of  |
|            | . direct power generators radioisotope batteries        | SNAP 27   | sneak circuit analysis  DEF In electrical or electronic circuits, the                   |
|            | SNAP 13   | GS auxiliary power sources  | detection and/or prevention of "sneak circuits" -                                       |
|            | thermionic converters                                   | . nuclear auxiliary power units                                   | paths having latent electrical conditions result  |
|            | SNAP 13   | SNAP  | ing from unapparent stimulus-response relation  |
|            | nuclear electric power generation                       | SNAP 27   | ships which cause unwanted functions or inhibi  |
|            | . nuclear auxiliary power units SNAP                    | electric generators   | desired function.   |
|            | SNAP 13   | . direct power generators radioisotope batteries                  | GS network analysis . sneak circuit analysis  |
| RT         | thermionic power generation                             | SNAP 27   | RT automatic test equipment   |
|            | aremiene pewer generalen                                | thermoelectric generators   | circuit protection  |
| SNAP       |   | SNAP 27   | circuit reliability   |
| GS         | auxiliary power sources                                 | nuclear electric power generation                                 | critical path method  |
|            | . nuclear auxiliary power units SNAP                    | . nuclear auxiliary power units<br>SNAP                           | electric networks<br>electrical faults  |
|            | SNAP 15   | SNAP 27   | reliability engineering   |
|            | electric generators                                     | OITAL ZI  | short circuits  |
|            | . direct power generators                               | SNAP 29   | signal flow graphs  |
|            | radioisotope batteries                                  | GS auxiliary power sources  | trees (mathematics)   |
|            | SNAP 15   | . nuclear auxiliary power units                                   |   |
|            | thermoelectric generators SNAP 15                       | SNAP<br><b>SNAP 29</b>  | sneezing<br>GS reflexes   |
|            | nuclear electric power generation                       | electric generators   | . respiratory reflexes  |
|            | . nuclear auxiliary power units                         | . direct power generators   | sneezing  |
|            | SNAP  | radioisotope batteries  | RT involuntary actions  |
|            | SNAP 15   | SNAP 29   | vasoconstriction  |
| CNAD       | 47  | thermoelectric generators   | Challen toota   |
| SNAP<br>GS |   | SNAP 29   | Snellen tests<br>RT ∞ tests   |
| 03         | auxiliary power sources . nuclear auxiliary power units | nuclear electric power generation . nuclear auxiliary power units | visual acuity   |
|            | SNAP  | SNAP  | riodal dodily   |
|            | SNAP 17   | SNAP 29   | Snells law  |
|            | electric generators                                     |   | DEF A law of geometric optics that define   |
|            | direct power generators                                 | SNAP 50   | the amount of bending that takes place when a   |
|            | . radioisotope batteries                                | GS auxiliary power sources  | light ray strikes a refractive boundary (e.g., a  |
|            | SNAP 17 thermoelectric generators                       | . nuclear auxiliary power units<br>SNAP                           | air-glass interface) at a non-normal angle.<br>GS laws                                  |
|            | SNAP 17   | SNAP 50   | . Snells law  |
|            | nuclear electric power generation                       | space power reactors  | RT geometrical optics   |
|            | . nuclear auxiliary power units                         | SNAP 50   | ∞ optics  |
|            | SNAP  | nuclear electric power generation                                 | refraction  |
|            | SNAP 17   | . nuclear auxiliary power units                                   | refractivity  |
| SNAP       | 19  | SNAP<br><b>SNAP 50</b>  | snow  |
| GS         | auxiliary power sources                                 | space power reactors  | DEF A form of ice composed of small white   |
|            | . nuclear auxiliary power units                         | SNAP 50   | or translucent hexagonal crystals of frozen wa  |
|            | SNAP  | . nuclear power reactors  | ter, formed directly by sublimation of atmo   |
|            | SNAP 19   | space power reactors  | spheric water vapor around solid nuclei at a  |
|            | electric generators                                     | SNAP 50   | temperature below the freezing point. The crys  |
|            | . direct power generators                               | nuclear reactors  | tals grow while floating or falling to the ground                                       |
|            | radioisotope batteries SNAP 19                          | . nuclear power reactors space power reactors                     | and are often agglomerated into snowflakes.  GS precipitation (meteorology)             |
|            | thermoelectric generators                               | SNAP 50   | . snow  |
|            | SNAP 19   | RT space power unit reactors                                      | RT acid rain  |
|            | nuclear electric power generation                       |   | cirques (landforms)   |
|            | . nuclear auxiliary power units                         | Snapshot satellite  | cloud glaciation  |
|            | SNAP  | GS artificial satellites  | graupel   |

|                | ice formation precipitation measurement                      | RT             | boundary value problems Euclidean geometry       |        | temperature measurement             |
|----------------|--|----------------|--|--------|-------------------------------------|
|                | slush  |                | 240404 goo                                       | sodium |                                     |
|                | storms (meteorology)   | SoC (m         | icroelectronics)                                 | GS     | chemical elements                   |
| Snow as        | erial applicator aircraft S-2B                               |                | ed December 2005)                                |        | . alkali metals                     |
|                | agricultural aircraft  | USE            | systems-on-a-chip                                |        | liquid sodium                       |
|                |  | annial f       |  |        | sodium isotopes                     |
| snow co        |  | social f<br>GS | sociology  |        | sodium 22                           |
| GS             | precipitation (meteorology) . snow cover                     | 00             | . social factors                                 |        | sodium 24                           |
| RT             | cloud glaciation   |                | ethnic factors                                   |        | sodium vapor metals                 |
|                | cold weather   | RT             | anthropology                                     |        | . alkali metals                     |
|                | Earth cryosphere   |                | crime  |        | sodium                              |
|                | storm damage   |                | culture (social sciences) police                 |        | liquid sodium                       |
|                | storms (meteorology)   |                | race factors                                     |        | sodium isotopes                     |
|                | storms (meteorology)   |                | space psychology                                 |        | sodium 22<br>sodium 24              |
| Snow S-        | 2 aircraft   |                | Starsite program                                 |        | sodium vapor                        |
| USE            | agricultural aircraft  |                | urban planning                                   | RT     | dawsonite                           |
|                | #1   |                | urban research<br>∘ variable                     |        | electrolyte metabolism              |
| snowplo<br>USE | w effect<br>plasma dynamics                                  | ۰              | o variable                                       |        | liquid metal cooled reactors        |
| USL            | plasifia dyfiafflics   | social i       | solation   | sodium | 22                                  |
| snowsto        | orms   | GS             | isolation  | GS     | chemical elements                   |
| GS             | storms   |                | . social isolation                               | 00     | . alkali metals                     |
|                | . storms (meteorology)                                       | RT             | sociology  |        | sodium                              |
| RT             | snowstorms   |                |  |        | sodium isotopes                     |
| KI             | climatology precipitation (meteorology)                      |                | osychiatry                                       |        | sodium 22                           |
|                | storm enhancement  | GS             | medical science                                  |        | . nuclides                          |
|                | storm suppression  |                | . psychiatry                                     |        | isotopes radioactive isotopes       |
|                | weather forecasting  | RT             | social psychiatry sociology                      |        | sodium 22                           |
|                | weather modification   |                | 55515.15gy                                       |        | sodium isotopes                     |
| SOAC (         | electronics)   | sociolo        | av   |        | sodium 22                           |
|                | d May 2001)  | GS             | sociology  |        | metals                              |
| •              | systems-on-a-chip  |                | . social factors                                 |        | . alkali metals sodium              |
|                |  |                | ethnic factors                                   |        | sodium isotopes                     |
| soaking<br>SN  |  | RT             | anthropology case histories                      |        | sodium 22                           |
| SIN            | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |                | cities   |        |                                     |
| DT             | LISTED BELOW)  |                | communities                                      | sodium |                                     |
| RT             | baths<br>heat treatment                                      |                | culture (social sciences)                        | GS     | chemical elements . alkali metals   |
|                | heating  |                | demography                                       |        | sodium                              |
|                | submerging   |                | dependence                                       |        | sodium isotopes                     |
|                | water immersion  |                | group dynamics<br>human relations                |        | sodium 24                           |
|                | wetting  |                | minorities                                       |        | . nuclides                          |
| soaps          |  |                | politics   |        | isotopes radioactive isotopes       |
| RT             | detergents   |                | race factors                                     |        | sodium 24                           |
|                | stearates  |                | retirement                                       |        | sodium isotopes                     |
|                | surfactants  |                | social isolation                                 |        | sodium 24                           |
|                | wetting  |                | social psychiatry systems analysis               |        | metals                              |
| soaring        |  |                | urban planning                                   |        | . alkali metals                     |
| RT             | climbing flight  |                |  |        | sodium sodium isotopes              |
|                | coasting flight  | socks          |  |        | sodium 24                           |
| ∞              | flight   | GS             | clothing   |        |                                     |
|                | gliders  | DT             | . socks  | sodium |                                     |
|                | gliding<br>hang gliders                                      | RT             | fabrics<br>shoes                                 | GS     | alloys                              |
|                | horizontal flight  |                | Silves   |        | . sodium alloys                     |
|                | man powered aircraft   | sod            |  | sodium |                                     |
|                | vertical air currents  | DEF            | The top stratum of soil usually contain-         | GS     | nitrogen compounds                  |
| Sabalay        | anaa   | ing gras       | sy plants with their matted roots.               |        | . azides (inorganic)                |
| Sobolev<br>DFF | A Banach space whose elements are                            | GS             | soils  |        | sodium azides<br>. azides (organic) |
|                | defined in a domain in Euclidean                             | RT             | . sod  |        | sodium azides                       |
|                | nd whose norm measures the size and                          | KI             | canopies (vegetation) farmlands                  |        | sodium compounds                    |
|                | ess of the functions.  |                | grasses  |        | sodium azides                       |
| GS             | algebra  |                | grasslands                                       | RT     | detonators                          |
|                | . vector spaces Banach space                                 |                | land   |        | explosives                          |
|                | Hilbert space  |                | plowing  | sodium | bromides                            |
|                | Sobolev space  |                |  | GS     | halogen compounds                   |
|                | analysis (mathematics)                                       | sodalite       |  |        | . bromine compounds                 |
|                | . function space   | RT             | chemical reactions photochemical reactions       |        | bromides                            |
|                | Banach space   |                | photochromism                                    |        | sodium bromides                     |
|                | Hilbert space<br>Sobolev space                               |                | 1  |        | . halides<br>bromides               |
|                | . functional analysis  | sodar          |  |        | sodium bromides                     |
|                | Banach space   | DEF            | Sound detecton and ranging.                      |        | metal halides                       |
|                | Hilbert space  | RT             | acoustic scattering                              |        | alkali halides                      |
|                | Sobolev space  |                | atmospheric temperature                          |        | sodium bromides                     |
|                | geometry   | ٥              | o instruments                                    |        | sodium compounds . sodium bromides  |
|                | . topology metric space                                      |                | measuring instruments meteorological instruments |        | . Soululli biolillues               |
|                | Hilbert space  |                | meteorology                                      | sodium | carbonates                          |
|                | Sobolev space  |                | sound detecting and ranging                      | GS     | carbon compounds                    |

|          | . carbonates                               |           | sodium fluorides                          |           | . liquid cooled reactors                                  |
|----------|--|-----------|---|-----------|---|
|          | sodium carbonates                          |           | sodium compounds                          |           | liquid metal cooled reactors                              |
|          | sodium compounds                           |           | . sodium fluorides                        |           | sodium reactor experiment                                 |
| БТ       | . sodium carbonates                        |           | mallatan                                  |           | nuclear research and test reactors                        |
| RT       | dawsonite                                  |           | gallates                                  |           | sodium reactor experiment                                 |
| sodium ( | channels (biology)                         | GS        | gallium compounds<br>. gallates           | sodium    | salicylates   |
|          | d August 2002)                             |           | sodium gallates                           | GS        | esters  |
|          | ion channels (biology)                     |           | sodium compounds                          |           | . sodium salicylates                                      |
|          | , 257,                                     |           | sodium gallates                           |           | salicylates   |
|          | chlorides                                  |           |   |           | . sodium salicylates                                      |
| GS       | halogen compounds                          |           | graphite reactors                         |           | sodium compounds  |
|          | . chlorine compounds                       | UF        | SGR (nuclear reactors)                    |           | . sodium salicylates                                      |
|          | chlorides<br>sodium chlorides              | GS        | nuclear reactors . liquid cooled reactors | sodium    | silicates   |
|          | sodium chiorides<br>. halides              |           | . liquid cooled reactors                  |           | silicon compounds   |
|          | chlorides                                  |           | sodium graphite reactors                  |           | . silicates   |
|          | sodium chlorides                           | RT        | Hallam Nuclear Power Facility             |           | sodium silicates  |
|          | metal halides                              |           | nuclear power reactors                    |           | spodumene   |
|          | alkali halides                             |           |   |           | talc  |
|          | sodium chlorides                           |           | hydrides                                  |           | tourmaline  |
|          | sodium compounds                           | GS        | hydrogen compounds                        |           | sodium compounds  |
| БТ       | . sodium chlorides                         |           | . hydrides                                |           | . sodium silicates spodumene                              |
| ΚI       | molten salts                               |           | metal hydrides<br>sodium hydrides         |           | talc  |
| ~        | salt beds<br>salts                         |           | sodium compounds                          |           | tourmaline  |
| ω        | Sails                                      |           | . sodium hydrides                         | RT        | minerals  |
| sodium   | chlorodifluoroacetates                     |           | . comming my and co                       |           | plagioclase   |
| GS       | acetates                                   | sodium    | hydroxides                                |           |   |
|          | . sodium chlorodifluoroacetates            | GS        | bases (chemical)                          |           | sulfates  |
|          | esters                                     |           | . alkalies                                | DEF       |   |
|          | . sodium chlorodifluoroacetates            |           | . sodium hydroxides                       | -SO4 gr   |   |
|          | -1   |           | hydroxides                                | GS        | sodium compounds . sodium sulfates                        |
|          | chromites                                  |           | . sodium hydroxides<br>sodium compounds   |           | sulfur compounds  |
| GS       | chromium compounds . sodium chromites      |           | . sodium hydroxides                       |           | . sulfates  |
|          | sodium compounds                           |           | . socialii fiyaroxides                    |           | sodium sulfates   |
|          | . sodium chromites                         | sodium    | iodides                                   |           |   |
|          |  | GS        | halogen compounds                         | sodium    |   |
| sodium   | compounds                                  |           | . halides                                 | GS        | sodium compounds  |
| GS       | sodium compounds                           |           | metal halides                             |           | . sodium sulfites   |
|          | . cryolite                                 |           | alkali halides                            |           | sulfur compounds<br>. sulfites                            |
|          | . Nembutal (trademark)                     |           | sodium iodides                            |           | sodium sulfites   |
|          | . nepheline                                |           | . iodine compounds iodides                |           | Souldin Sunics  |
|          | . sodium azides<br>. sodium bromides       |           | sodium iodides                            | sodium    | sulfur batteries  |
|          | . sodium carbonates                        |           | sodium compounds                          | DEF       | One of several types of rechargeable                      |
|          | . sodium chlorides                         |           | . sodium iodides                          | batteries | under consideration as power sources                      |
|          | . sodium chromites                         |           |   |           | rically actuated vehicles. This battery                   |
|          | . sodium fluorides                         | sodium    | isotopes                                  |           | solid electrolyte as well as a sodium                     |
|          | . sodium gallates                          | GS        | chemical elements                         |           | r made of metal.  |
|          | . sodium hydrides                          |           | . alkali metals                           | GS        | electric generators . direct power generators             |
|          | . sodium hydroxides                        |           | sodium                                    |           | primary batteries   |
|          | . sodium iodides                           |           | sodium isotopes<br>sodium 22              |           | sodium sulfur batteries                                   |
|          | . sodium nitrates                          |           | sodium 22                                 |           | electrochemical cells                                     |
|          | . sodium peroxides                         |           | . nuclides                                |           | . electric batteries                                      |
|          | . sodium salicylates<br>. sodium silicates |           | isotopes                                  |           | primary batteries   |
|          | spodumene                                  |           | sodium isotopes                           |           | sodium sulfur batteries                                   |
|          | talc                                       |           | sodium 22                                 | RT ∝      | electric cells  |
|          | tourmaline                                 |           | sodium 24                                 | codium    | vanor   |
|          | . sodium sulfates                          |           | metals                                    | sodium    | chemical elements   |
|          | . sodium sulfites                          |           | . alkali metals                           | 93        | . alkali metals   |
| RT ∞     | alkali metal compounds                     |           | sodium                                    |           | sodium  |
|          | bloedite                                   |           | sodium isotopes<br>sodium 22              |           | sodium vapor  |
|          | chemical compounds metal compounds         |           | sodium 22                                 |           | metals  |
|          | metal compounds                            |           | 30didili 24                               |           | . alkali metals   |
| sodium   | cooling                                    | sodium    | nitrates                                  |           | sodium  |
| SN       | (COOLING WITH SODIUM)                      | GS        | nitrogen compounds                        |           | sodium vapor  |
| GS       | cooling                                    |           | . nitrates                                |           | . metal vapors  |
|          | . sodium cooling                           |           | inorganic nitrates                        |           | sodium vapor<br>vapors                                    |
|          | coolants                                   |           | sodium nitrates                           |           | . metal vapors  |
|          | liquid cooled reactors                     |           | sodium compounds                          |           | sodium vapor  |
|          | liquid cooling                             |           | . sodium nitrates                         | RT        | mercury vapor   |
| eodium   | fluorides                                  | sodium    | peroxides                                 |           | , ,   |
|          | halogen compounds                          |           | chalcogenides                             | SOFAR     |   |
| 30       | . fluorine compounds                       |           | . oxides                                  | USE       | sound fixing and ranging                                  |
|          | fluorides                                  |           | anhydrides                                | SOEIA /   | airborno obsorvatoru)                                     |
|          | metal fluorides                            |           | peroxides                                 |           | airborne observatory)<br>ed March 1990)                   |
|          | sodium fluorides                           |           | sodium peroxides                          | SN        | (STRATOSPHERIC OBSERVATORY FOR                            |
|          | . halides                                  |           | metal oxides                              |           | INFRARED ASTRONOMY)                                       |
|          | fluorides                                  |           | sodium peroxides                          | UF        | Stratospheric Observatory for IR                          |
|          | metal fluorides                            |           | sodium compounds                          | 00        | Astronomy   |
|          | sodium fluorides                           |           | . sodium peroxides                        | GS        | observatories   |
|          | metal halides<br>alkali halides            | e o di um | reactor experiment                        |           | . astronomical observatories SOFIA (airborne observatory) |
|          | sodium fluorides                           | UF        | SRE reactor                               | RT        | airborne equipment  |
|          | metal fluorides                            | GS        | nuclear reactors                          | 13.1      | Boeing 747 aircraft                                       |
|          |  |           |   |           |   |

infrared astronomy Kuiper Airborne Observatory spaceborne astronomy

#### soft gamma repeaters

(added January 2000)

DEF A class of x-ray source which emits repeating bright bursts of "soft" or low-energy gamma rays, along with steady x-ray pulsations. By the end of 1999 only a handful of these sources had been identified in our galaxy and in the Large Magellanic Cloud. Since they are associated with supernova remnants, these sources are probably some kind of young neutron star. One theory holds that these stars are young magnetars (magnetically-powered neutron stars). Bright bursts occur when the evolving, ultra-strong magnetic field stresses the neutron star's solid crust to breaking, in a sudden starquake. X-ray pulsations are due to the rotation of the star, with it's hot surface bright in x-rays. UF

SGR (astronomy) GS celestial bodies

. stars

. . neutron stars

... soft gamma repeaters

. . x ray stars

. . . soft gamma repeaters

gamma ray sources (astronomy)
. soft gamma repeaters

x ray sources . x ray stars

. soft gamma repeaters

gamma ray astronomy gamma ray bursts magnetars supernova remnants

#### soft landing

(SPACECRAFT OR AIRCRAFT)

The act of landing on the surface of a planet or natural satellite without damage to any portion of the vehicle or payload except possibly the landing gear. Used for soft recovery.

soft recovery landing
. soft landing GS

aircraft landing RT ∞ astronautics

crash landing glide landings hard landing

horizontal spacecraft landing

lunar landing Mars landing planetary landing spacecraft landing Surveyor project Viking 1975 entry vehicle water landing

#### soft landing spacecraft

SLV (soft landing vehicles)

#### GS soft landing spacecraft

. aerospace planes

. . HOPE aerospace plane

HOTOL launch vehicle

VentureStar launch vehicle

. . X-30 vehicle

X-37 vehicle

X-40A vehicle

. Apollo spacecraft

. . Apollo lunar experiment module

Astro vehicle

. Buran space shuttle

Gemini B spacecraft

. Gemini spacecraft

Gemini 2 spacecraft

. Gemini (GT-1) spacecraft

Janus spacecraft

. landing modules

. . lunar landing modules

. . . Lunar Module

Apollo lunar experiment module

. . . . LSSM

. . . . Lunar Module 5 . Lunar Module 7

. Mars Excursion Module

. Mercury spacecraft

. . Aurora 7

. . Faith 7

Friendship 7

SIGMA 7 . Surveyor lunar probes

Surveyor 1 lunar probe

Surveyor 2 lunar probe

. . Surveyor 3 lunar probe

. . Surveyor 4 lunar probe

Surveyor 5 lunar probe

. . Surveyor 6 lunar probe Surveyor 7 lunar probe

. voskhod manned spacecraft

Voskhod 1 spacecraft

Voskhod 2 spacecraft

. Vostok spacecraft .. Vostok 1 spacecraft

Vostok 2 spacecraft

. . Vostok 3 spacecraft

Vostok 4 spacecraft

. . Vostok 5 spacecraft

. . Vostok 6 spacecraft Apollo project

ferry spacecraft hovering rocket vehicles

lunar probes

reusable spacecraft

space capsules

∞ spacecraft spacecraft landing

Surveyor project X-20 aircraft

soft recovery

USE soft landing

# softening

(EXCLUDES WATER SOFTENING) ĞS

softening

work softening annealing

deionization demineralizing

digesting dissolving

hardening (materials) ion exchanging

#### softness

ductility

elastic properties flexibility

hardness stiffness

software (computers)

USE computer programs

# software development tools

DEF Computer programs that aid in the specification, construction, testing, analysis, managment, documentation, and maintenance

of other computer programs.

UF software tools GS

computer programs

software development tools

tools

software development tools

applications programs (computers) architecture (computers) computer systems design object-oriented programming program verification (computers) programming environments

reverse engineering scientific visualization software engineering

software reuse

## software engineering

The systematic approach to the development, operation, maintenance, and retirement of software.

RT computer programming computer programs computer systems design computer systems programs computer viruses

data bases ∞ engineering object-oriented programming open source licensing (computers) programming environments reverse engineering software development tools software reliability software reuse structured programming systems engineering UNIX (operating system)

software engineering environments USE programming environments

#### software reliability

(added January 1993)

computer program reliability program reliability (computers)

reliability

### . software reliability

. . computer program integrity RT computer programming

computer programs computer systems performance program verification (computers) reliability analysis

software engineering systems health monitoring

#### software reuse

(added May 1992)

GS utilization

. reuse

. . software reuse computer programming computer programs

productivity

software development tools software engineering

software tools

USE software development tools

#### **SOHO Mission**

(added September 1989)

One of the joint NASA/ESA missions comprising the International Solar Terrestrial Program. The SOHO Mission will investigate the physical processes in the solar corona and solar wind and the structure and dynamics of the solar interior.

Solar and Heliospheric Observatory UF

GS

space missions . SOHO Mission

Cluster Mission

**ESA** satellites

European space programs heliosphere

international cooperation

∞ missions

scientific satellites solar corona solar interior

solar observatories

Transition Region and Coronal Explorer

# SOI (semiconductors)

Semiconductor devices consisting of a silicon layer coupled to an electrically insulating layer. Used for silicon-on-insulator semiconductors.

silicon-on-insulator semiconductors

electronic equipment

. solid state devices

. . semiconductor devices . SOI (semiconductors)

field effect transistors metal oxide semiconductors

silicon films silicon junctions silicon transistors

SIS (semiconductors)

|                | SOS (semiconductors)                  |         | soils                                   |         | sunspots                                   |
|----------------|---------------------------------------|---------|---|---------|--|
| ooil oon       | tomination                            |         | vegetation growth                       | RT «    | ∞ activity                                 |
|                | tamination soil pollution             |         |   |         | auroras<br>∞ disturbances                  |
| OOL            | 3011 political                        | soils   | aaila                                   |         | International Quiet Sun Year               |
| soil ero       | sion                                  | GS      | soils<br>. alluvium                     |         | interplanetary shock waves                 |
| GS             | erosion                               |         | . dirt                                  |         | IRIS satellites                            |
|                | soil erosion                          |         | . gravels                               |         | magnetic disturbances                      |
| RT             | abrasion                              |         | . laterites                             |         | prominences                                |
|                | atmospheric effects                   |         | . lunar soil                            |         | radio auroras                              |
|                | deterioration                         |         | lunar dust                              |         | solar convection (astronomy)               |
|                | environment effects<br>hydrogeology   |         | . mud                                   |         | solar interior                             |
|                | landslides                            |         | . permafrost                            |         | solar planetary interactions starspots     |
|                | outliers (landforms)                  |         | . sands                                 |         | STEREO (observatory)                       |
|                | rain erosion                          |         | monazite sands                          |         | sun  |
|                | rain impact damage                    |         | tar sands                               |         | sunspot cycle                              |
|                | soils                                 | RT      | . sod<br>andesite                       |         |  |
|                | water erosion                         | 13.1    | anorthosite                             | solar a | ctivity effects                            |
|                | weathering                            |         | arid lands                              | RT      | blackout (propagation)                     |
|                | wind effects                          |         | ataxite                                 |         | ∞ effects                                  |
|                |                                       |         | barren land                             |         | galactic cosmic rays                       |
| soil ma        |                                       |         | basalt                                  |         | heliosphere                                |
| GS             | mapping . soil mapping                |         | bedrock                                 |         | interplanetary shock waves                 |
| RT             | geographic applications program       |         | bentonite                               |         | magnetic disturbances                      |
| 17.1           | ground penetrating radar              |         | boreholes                               |         | secular variations                         |
|                | maps                                  |         | breccia                                 |         | solar oscillations                         |
|                | Mars Reconnaissance Orbiter           |         | carbonaceous rocks                      |         | solar planetary interactions space weather |
|                | photomapping                          |         | clays                                   |         | sudden ionospheric disturbances            |
|                | soils                                 |         | coal                                    |         | sudden storm commencements                 |
|                | SPOT (French satellite)               |         | conservation                            |         | sun  |
|                | surveys                               |         | cultivation<br>deltas                   |         | 33.1                                       |
|                | terrain analysis                      |         | diorite                                 | Solar a | nd Heliospheric Observatory                |
|                |                                       |         | dunite                                  | USE     | SOHO Mission                               |
|                | chanics                               |         | Earth resources                         |         |  |
|                | Mechanical properties of unconsoli-   |         | eclogite                                | solar a | rrays                                      |
|                | ccumulations of particles produced by |         | enstatite                               | UF      | rollup solar arrays                        |
|                | ntegration and chemical decomposition |         | formations                              | GS      | arrays                                     |
| of rocks<br>RT | crustal fractures                     |         | geology                                 |         | . solar arrays                             |
| KI             | fracture mechanics                    |         | gneiss                                  |         | solar blankets                             |
|                | geotechnical engineering              |         | granite                                 | RT      | electrostatic bonding                      |
|                | geotechnical fabrics                  |         | igneous rocks                           |         | payload delivery (STS)                     |
|                | rock mechanics                        |         | illite                                  |         | photovoltaic conversion                    |
|                | Took moonamoo                         |         | kaolinite                               |         | power modules (STS)                        |
| soil mo        | isture                                |         | land                                    |         | satellite power transmission               |
| GS             | moisture                              |         | landslides                              |         | self shadowing                             |
|                | . soil moisture                       |         | lava                                    |         | solar atriums                              |
| RT             | lysimeters                            |         | limestone                               |         | solar energy conversion                    |
|                | moisture content                      |         | lysimeters                              |         | space station power supplies               |
|                | plant stress                          |         | magma<br>minerals                       |         | sun  |
|                | soil sampling                         |         | moldavite                               | solar a | tmosphoro                                  |
|                | soils                                 |         | muskegs                                 | GS GS   | tmosphere<br>environments                  |
|                | vegetation growth                     |         | obsidian                                | 00      | . extraterrestrial environments            |
| soil pol       | lution                                |         | olivine                                 |         | stellar atmospheres                        |
|                | ed September 1995)                    |         | peridotite                              |         | solar atmosphere                           |
| UF             | soil contamination                    |         | planting                                |         | solar transition region                    |
| GS             | pollution                             |         | polyurethane foam                       | RT «    | ∞ atmospheres                              |
| 00             | . environment pollution               |         | porous materials                        |         | chromosphere                               |
|                | soil pollution                        |         | pumice                                  |         | M region                                   |
| RT             | contaminants                          |         | pyroxenes                               |         | photosphere                                |
|                | environmental cleanup                 |         | quartz                                  |         | solar convection (astronomy)               |
|                | ground water                          |         | rocks                                   |         | solar oscillations                         |
|                | heavy metals                          |         | sandstones                              |         | spicules                                   |
|                | industrial wastes                     |         | sedimentary rocks                       |         | stellar structure                          |
|                | pollution monitoring                  |         | serpentine<br>shales                    |         | sun Transition Region and Coronal          |
|                | radioactive wastes                    |         | soil erosion                            |         | Explorer                                   |
|                | sediments                             |         | soil mapping                            |         | Explorei                                   |
|                | toxicity and safety hazard            |         | soil moisture                           | solar a | triume                                     |
|                | waste disposal                        |         | soil science                            | DEF     |  |
|                | water pollution                       |         | strip mining                            |         | sive solar heating.                        |
| soil sar       | mpling                                |         | syenite                                 | RT      | solar arrays                               |
|                | ed March 1995)                        |         | trachyte                                |         | solar heating                              |
| •              | sampling                              |         | tunneling (excavation)                  |         | solar reflectors                           |
| 00             | . soil sampling                       |         | vadose water                            |         | space heating (buildings)                  |
| RT             | alkalinity                            |         | vegetation growth                       |         | sun  |
|                | Mars surface samples                  |         |   |         |  |
|                | pH factor                             | solar a | ctivity                                 | solar a | uxiliary power units                       |
|                | salinity                              |         | Any type of variation in the appearance | GS      | auxiliary power sources                    |
|                | soil moisture                         |         | gy output of the sun.                   |         | solar auxiliary power units                |
|                | terrain analysis                      | GS      | stellar activity                        |         | ASTEC solar turboelectric                  |
|                |                                       |         | solar activity                          |         | generator                                  |
| soil sci       |                                       |         | faculae                                 |         | electric generators                        |
| UF             | pedology                              |         | solar flares                            |         | . solar generators                         |
| RT             | agriculture                           |         | solar prominences                       |         | solar auxiliary power units                |
|                | conservation                          |         | solar storms                            |         | ASTEC solar turboelectric                  |
|                | erosion                               |         | spicules                                |         | generator                                  |

RT sun photovoltaic conversion rates (per time) p-i-n junctions . flux density solar azimuth quantum efficiency . . radiant flux density USE azimuth satellite power transmission . . . irradiance solar position satellite solar energy conversion .... solar constant satellite solar power stations . . . solar flux density Solar Backscatter UV Spectrometer short circuit currents . . solar constant DEF A spaceborne spectrometer that mea-SIS (semiconductors) solar energy sures solar UV spectral irradiance incident on the Earth and backscattered radiance from the solar energy conversion . solar flux density solar powered aircraft . solar constant Earth and thereby estimates the total atmospace station power supplies illuminance spheric ozone content of the atmosphere and particle flux density spectrophotovoltaics the attitude distribution of ozone. sun sun GS measuring instruments thermionic converters solar convection (astronomy) (added June 1992) . spectrometers thermoelectric generators Solar Backscatter UV thermophotovoltaic conversion (LIMITED TO CONVECTION PHENOMENA OF THE SOLAR ATMOSPHERE AND INTERIOR) Spectrometer tunnel junctions irradiance NOAA 11 satellite solar collectors convection NOAA 14 satellite DEF Devices designed to absorb incident . stellar convection satellite-borne instruments solar radiation and transfer the energy to a fluid . solar convection (astronomy) passing through it. Used for solar receivers. RT Benard cells solar blankets solar receivers convection currents DEF Large, high-temperature, low-mass soaccumulators convective flow lar arrays consisting of ultrathin silicon solar . solar collectors dynamo theory cells interconnected, welded, and bonded to reflectors fluid flow flexible substances. . solar reflectors free convection GS arrays . solar collectors Rayleigh-Benard convection . solar arrays concentrators solar activity solar blankets mirrors solar atmosphere electric generators photothermal conversion solar interior . direct power generators selective surfaces solar magnetic field solar dynamic power systems . thermionic converters solar physics . solar blankets solar energy conversion space cooling (buildings) RT ∞ blankets solar converters ∞ converters spectrophotovoltaics USE solar generators sun sun solar cooling Solar Cell Calibration Facility solar companion star DEF Conversion of solar energy into refrig-DEF One of the spacelab payloads. Used USE Nemesis (star) eration energy. for SCCF. cooling SCCF GS UF solar compasses . solar cooling cooling systems payloads measuring instruments Spacelab payloads . indicating instruments domestic energy Solar Cell Calibration Facility . . compasses energy technology calibrating .. solar compasses residential energy ∞ facilities navigation aids solar energy conversion Space Transportation System flights . navigation instruments space cooling (buildings) . . compasses solar compasses solar cells air navigation air traffic control aircraft safety DEF Photovoltaic cells that convert sunlight into electrical energy. Used for silicon solar cells and wraparound contact solar cells. solar corona GS coronas silicon solar cells airport beacons . stellar coronas wraparound contact solar cells . . solar corona all-weather air navigation electric generators ... coronal holes approach indicators . direct power generators
. photoelectric generators
. . photovoltaic cells . . coronal loops automatic flight control chromosphere automatic pilots coronal mass ejection beacons electric corona .... solar cells Decca navigation . . . vertical junction solar cells interplanetary shock waves display devices solar generators magnetic clouds distance measuring equipment nebulae . . solar cells flight control SOHO Mission . vertical junction solar cells flight instruments solar transition region electronic equipment flight paths stellar structure . solid state devices gyrocompasses . . semiconductor devices heliports sun ... photovoltaic cells homing devices Transition Region and Coronal . solar cells landing aids Explorer .... vertical junction solar cells photoelectric cells solar corpuscular radiation magnetic compasses . photovoltaic cells omnidirectional radio ranges solar streams . . solar cells position indicators extraterrestrial radiation . . vertical junction solar cells radar beacons . solar radiation amorphous silicon .. solar corpuscular radiation radio beacons antireflection coatings radio navigation . . . solar electrons carrier lifetime self calibrating omnirange ... solar neutrinos carrier transport (solid state) Shoran . . . solar neutrons . solar protons sun copper indium selenides particles Tacan diffusion length . corpuscular radiation VHF omnirange navigation ∞ electric cells weather ... solar corpuscular radiation . . . solar electrons electrostatic bonding . . . solar neutrinos float zones solar constant . . . solar neutrons fuel cells The rate at which solar radiation is heterojunctions received outside the Earth's atmosphere on a . . solar protons

surface normal to the incident radiation and at

the Earth's mean distance from the sun.

solar constant

constants

GS

homoiunctions

photodiodes

indium selenides

open circuit voltage

Advanced Composition Explorer

solar planetary interactions

RT

M region

∞ radiation

sudden storm commencements . . solar propulsion sun solar electric propulsion Wind/GGS spacecraft Deep Space 1 Mission solar faculae solar powered aircraft USE faculae solar cosmic rays solar thermal propulsion DEF Cosmic rays supposedly originating in space station propulsion solar flares A rapid release of electromagnetic (visextraterrestrial radiation ible, radio, ultraviolet, x ray) and particulate . primary cosmic rays (protons, electrons) energy from the sun. Flares solar electrons solar cosmic rays are classified according to the optically ob-GS extraterrestrial radiation . solar radiation served area of the solar surface covered, frang-. solar radiation . solar cosmic rays ing from zero for the smallest to 3 for the largest, . . solar corpuscular radiation and their intensity, either faint, noraml, or brilionizing radiation .. solar electrons . cosmic rays particles . . primary cosmic rays GS stellar activity . charged particles . solar activity ... solar cosmic rays . . energetic particles particles .. solar flares . . . electrons . corpuscular radiation . stellar flares .... solar electrons . . primary cosmic rays . . solar flares . corpuscular radiation RT coronal loops . solar cosmic rays . . energetic particles Advanced Composition Explorer coronal mass ejection . . . electrons electron acceleration flare stars .... solar electrons ∞ flares energetic particles . . solar corpuscular radiation GRIST (telescope) ∞ flash . solar electrons Forbush decreases sun . elementary particles force-free magnetic fields . . fermions interplanetary shock waves solar cycles . . . leptons IRIS satellites GS cycles . . . electrons magnetic disturbances solar cycles .... solar electrons Solar Maximum Mission . sunspot cycle International Quiet Sun Year RT sun solar neutrons IRIS satellites sudden storm commencements secular variations solar energy sun (LIMITED TO DISCUSSIONS OF THE RADIANT ENERGY ORIGINATING FROM THE SUN. FOR SOLAR ENERGY TECHNOLOGIES REFER TO 'SOLAR ENERGY CONVERSION' AND ITS ASSOCIATED TERMS) sunspots sunspots twenty-seven day variation solar flux (LIMITED TO ENERGY OR PARTICLES EMITTED FROM THE SUN PER UNIT TIME-SEE SOLAR FLUX DENSITY FOR ENERGY OR PARTICLE EMISSION OR DETECTION RATE PER UNIT AREA) rates (per time) SN solar diameter DEF The radiant energy originating from the Observable dimension of the sun. sun. Approximately 998 of solar energy lies RT astrometry between the wavelengths of 300 to 3,500 nm. ∞ science GS solar energy . flux (rate) solar eclipses . solar flux .. solar flux . solar flux density solar disk solar energy USE sun . . solar constant . solar flux . insolation heat flux RT ∞ energy solar dynamic power systems limb brightening IRIS satellites Electric power systems using a solar sun heated working fluid to drive a turboalternator. solar radiation solar flux density Primary applications are for space stations and sun (LIMITED TO SOLAR ENERGY OR PARTICLE EMISSION OR DETECTION RATE UNIT AREA-SEE SOLAR FLUX FOR EMISSION RATE PER UNIT TIME) sunlight spacecraft. Surface Meteorology and Solar GS electric generators Energy project solar generators . solar dynamic power systems rates (per time) electric power supplies . flux density solar energy absorbers solar dynamic power systems ... radiant flux density GS absorbers (materials) Brayton cycle ... solar flux density solar energy absorbers heat storage . . . solar constant electromagnetic absorption photothermal conversion solar energy photothermal conversion Rankine cycle . solar flux density selective surfaces solar collectors solar constant sun solar energy conversion electron flux density Trombe walls solar thermal electric power plants Helios satellites space station power supplies illuminance spacecraft power supplies solar energy conversion irradiance Stirling cycle GS energy conversion limb brightening . solar energy conversion luminance solar dynamics . . photothermal conversion luminous intensity USE helioseismology ... thermophotovoltaic conversion particle flux density . . photovoltaic conversion proton flux density . thermophotovoltaic conversion radiance . . solar total energy systems DEF Obscurations of the light of the sun by radiancy RT cogeneration the moon. radiation pressure GS eclipses ∞ conversion sun . solar eclipses energy technology occultation heterojunction devices solar furnaces . lunar occultation hydrogen production GS heating equipment . solar eclipses phase change materials . furnaces lunar shadow photoelectric generators solar furnaces solar diameter photoelectrochemical devices Forbush decreases renewable energy meltina solar arrays sun solar electric propulsion solar cells vacuum furnaces GS propulsion solar collectors . electric propulsion solar generators solar cooling . . solar electric propulsion solar dynamic power systems solar converters solar power generation . low thrust propulsion solar generators

solar heating

solar-pumped lasers

space cooling (buildings)

solar power sources

electric generators

. solar generators

. . solar propulsion

. spacecraft propulsion

... solar electric propulsion

|          | solar auxiliary power units               | sun  | solar nebula  |
|----------|---|--|---|
|          | ASTEC solar turboelectric                 | solar lasers   | RT meteoritic composition   |
|          | generator solar cells                     | USE solar-pumped lasers                                  | planetary evolution   |
|          | vertical junction solar cells             | OOL Solai-pulliped lasers                                | protoplanets<br>protostars  |
|          | solar dynamic power systems               | solar limb   | solar system  |
| RT       | direct power generators                   | RT coronal loops   | solar system evolution  |
|          | fuel cells                                | limb brightening   | star formation  |
|          | paddles                                   | limb darkening   | stellar evolution   |
|          | photoelectric cells                       | ∞ limbs  | sun   |
|          | photoelectric generators                  | planetary limb   |   |
|          | photovoltaic cells                        | sun  | solar neighborhood  |
| ۰        | o power supplies                          | color longitudo  | DEF The portion of the Milky Way Galax  |
|          | Rankine cycle                             | solar longitude  | centering around the sun and containing the   |
|          | solar energy conversion                   | GS longitude<br>. <b>solar longitude</b>                 | nearest neighboring stars.  |
|          | solar sea power plants                    | RT astronomical coordinates                              | RT astronomy celestial bodies   |
|          | sun<br>thermoelectric generators          | celestial reference systems                              | local group (astronomy)   |
|          | turbogenerators                           | sun  | Milky Way Galaxy  |
|          | turbogenerators                           |  | Nemesis (star)  |
| solar q  | ranulation                                | solar magnetic field                                     | solar system  |
| GS       | photosphere                               | UF heliomagnetism  | star clusters   |
|          | solar granulation                         | GS magnetic fields                                       | stars   |
| RT       | Benard cells                              | . stellar magnetic fields                                | sun   |
|          | brightness distribution                   | solar magnetic field                                     |   |
|          | convection currents                       | RT electromagnetic fields<br>force-free magnetic fields  | solar neutrinos   |
|          | limb brightening                          | interplanetary magnetic fields                           | DEF Neutral particles originating fror<br>nuclear reactions in the core of the sun. |
|          | sun                                       | magnetic field reconnection                              | GS extraterrestrial radiation   |
|          | surface layers                            | solar convection (astronomy)                             | . solar radiation   |
|          | temperature effects                       | sun  | solar corpuscular radiation   |
| a alan a | ver itetie m                              | Transition Region and Coronal                            | solar corpuscular radiation   |
| UF       | ravitation<br>evection                    | Explorer   | particles   |
| GS       | gravitation                               | į · · ·  | . corpuscular radiation   |
| GS       | . stellar gravitation                     | Solar Maximum Mission                                    | solar corpuscular radiation   |
|          | solar gravitation                         | DEF Use of the multimission modular                      | solar neutrinos   |
| RT       | sun                                       | spacecraft for the study of solar particles, emis-       | . elementary particles  |
|          |   | sions, and flares.                                       | fermions  |
| solar h  | eating                                    | GS space missions  | leptons   |
|          | heating                                   | . Solar Maximum Mission                                  | neutrinos   |
|          | . solar heating                           | Solar Maximum Mission-A<br>RT ∞ flares                   | solar neutrinos   |
| RT       | bioconversion                             | flux density   | RT astronomical models  |
|          | hydrothermal systems                      | gamma ray spectrometers                                  | astrophysics<br>nuclear reactions   |
|          | insolation                                | ∞ missions   | stellar models  |
|          | phase change materials                    | multimission modular spacecraft                          | Sun   |
|          | radiant heating                           | polarimeters   | weakly interacting massive particles  |
|          | residential energy                        | programs   | would intolaoting macoive particles   |
|          | solar atriums                             | solar flares   | solar neutrons  |
|          | solar energy conversion                   | space programs   | GS extraterrestrial radiation   |
|          | space heating (buildings) sun             | sun  | . solar radiation   |
|          | sunlight                                  | ultraviolet spectrometers                                | solar corpuscular radiation   |
|          | Trombe walls                              | Ulysses mission  | solar neutrons  |
|          | Trombe wans                               | Out of Market and Miles to a A                           | particles   |
| solar h  | nuses                                     | Solar Maximum Mission-A                                  | . corpuscular radiation   |
| DEF      | Habitable buildings designed with         | DEF The solar maximum mission space-                     | . solar corpuscular radiation   |
|          | xpanses of glass or other transparent     | craft. Used for SMM-A.<br>UF S <i>MM-A</i>               | solar neutrons  |
|          | s to collect solar radiation for heating. | GS space missions  | . elementary particles  |
| RT       | buildings                                 | . Solar Maximum Mission                                  | fermions<br>neutrons  |
|          | domestic energy                           | Solar Maximum Mission-A                                  | solar neutrons  |
|          | energy technology                         | RT ∞ missions  | . neutral particles   |
|          | heat storage                              | space exploration  | neutrons  |
|          | residential energy                        | ∞ spacecraft   | solar neutrons  |
|          | space heating (buildings)                 | sun  | RT neutron flux density   |
|          | sun                                       |  | solar flares  |
|          | Trombe walls                              | Solar Mesosphere Explorer                                |   |
|          |   | DEF A satellite whose experiments pro-                   | solar noise   |
|          | struments                                 | vided a comprehensive study of atmospheric               | USE solar radio emission  |
| GS       | solar instruments                         | ozone and the processes which form and de-               |   |
| RT       | . spectroheliographs celescopes           | stroy it. The satellite was launched in October of       | solar oblateness  |
| IXI      | filtergrams                               | 1981. On May 15, 1989, the mission was termi-            | RT oblate spheroids   |
|          | optical measuring instruments             | nated due to battery problems.  GS artificial satellites | sun   |
|          | radiation measuring instruments           | . scientific satellites                                  | solar observatories   |
|          | solar optical telescope                   | Explorer satellites                                      | GS observatories  |
|          | spectrometers                             | Solar Mesosphere Explorer                                | . astronomical observatories  |
|          | sun                                       | RT atmospheric composition                               | solar observatories   |
|          | telescopes                                | mesosphere   | OSO   |
|          | -   | ozone  | AOSO  |
| solar in | terior                                    | sun  | OSO-1   |
| GS       | stellar interiors                         |  | OSO-2   |
|          | . solar interior                          | solar nebula   | OSO-3   |
| RT       | helioseismology                           | (added June 2001)  | OSO-4   |
|          | SOHO Mission                              | DEF Clouds of gas and dust from which the                | OSO-5   |
|          | solar activity                            | Sun, planets, and other solar system bodies              | OSO-6   |
|          | solar convection (astronomy)              | formed.  | OSO-7   |
|          | solar physics                             | UF protosolar nebula                                     | 080-8   |
|          | stellar cores                             | GS celestial bodies                                      | OSO-C   |
|          | stellar structure                         | . nebulae  | Pinhole Occulter Facility   |

|             | STEREO (observatory)                            | Transition Region and Coronal   |          | Pioneer space probes                                   |           |
|-------------|---|---|----------|--|-----------|
| RT          | coronagraphs<br>SOHO Mission                    | Explorer  |          | sun<br>Ulysses mission                                 |           |
|             | sun   | solar planetary interactions  |          |  |           |
|             | Transition Region and Coronal                   | DEF The interactions and subsequent ef-   |          | rominences   |           |
|             | Explorer  | fects caused by the interactions of solar activity                                      |          | Filamentlike protuberances sphere of the sun. Used for |           |
|             |   | and/or wind with a planet, its magnetic field, its atmosphere, or natural satellites.   | (solar p |  | maments   |
| solar o     | ptical telescope                                | GS solar planetary interactions   | UF       | filaments (solar physics)                              |           |
|             | A 1-M class, high resolution solar tele-        | . solar terrestrial interactions  | GS       | prominences  |           |
|             | which NASA had planned to operate on            | RT Earth magnetosphere  |          | . solar prominences                                    |           |
|             | uttle Spacelab during the mid and late          | magnetic disturbances   |          | stellar activity                                       |           |
| 1980s. I    | Used for SOT. SOT                               | magnetosheath   |          | . solar activity                                       |           |
| GS          | telescopes                                      | Nozomi Mars Orbiter   |          | . solar prominences                                    |           |
| 00          | . spaceborne telescopes                         | planetary atmospheres   | RT       | chromosphere   |           |
|             | solar optical telescope                         | planetary magnetic fields   |          | sun  |           |
| RT          | solar instruments                               | planetary magnetospheres  | solar n  | ropulsion  |           |
|             | solar physics                                   | planetary magnetotails<br>plasma interactions   |          | propulsion   |           |
|             |   | solar activity  | 00       | . low thrust propulsion                                |           |
| solar o     | rhite   | solar activity effects  |          | solar propulsion                                       |           |
| SN          | (RESTRICTED TO ORBITS AROUND THE                | solar corpuscular radiation   |          | solar electric propulsion                              |           |
|             | SUN)  | solar wind  |          | solar thermal propulsion                               |           |
| UF          | heliocentric orbits                             | solar wind velocity   |          | . spacecraft propulsion                                |           |
| 00          | planetary motion                                |   |          | . solar propulsion                                     |           |
| GS          | orbits  | solar plasma (radiation)  |          | solar electric propulsion                              |           |
| RT          | . solar orbits aphelions                        | USE solar wind  | RT       | solar thermal propulsion                               |           |
| IXI         | circular orbits                                 | solar ponds (heat storage)  | KI       | solar powered aircraft sun                             |           |
| 0           | • Earth motion                                  | DEF Large, shallow ponds covered with   |          | Suii   |           |
|             | ecliptic  | thin, transparent plastic shields and used for  | solar p  | rotons   |           |
|             | elliptical orbits                               | collecting and storing solar heat for conversion  |          | extraterrestrial radiation                             |           |
|             | HEOS satellites                                 | to electric power.  |          | . solar radiation                                      |           |
|             | interplanetary trajectories                     | RT electric generators  |          | solar corpuscular radiation                            | ١         |
| 0           | o motion  | energy conversion   |          | solar protons  |           |
|             | orbital resonances (celestial                   | ponds   |          | particles  |           |
|             | mechanics)                                      | reservoirs  |          | . charged particles                                    |           |
|             | perihelions                                     | sun   |          | protons  |           |
|             | protoplanets spacecraft orbits                  | solar position  |          | solar protons . corpuscular radiation                  |           |
|             | sun   | UF solar azimuth  |          | solar corpuscular radiation                            | 1         |
|             | transfer orbits                                 | GS position (location)  |          | solar protons  | •         |
|             |   | . solar position  |          | elementary particles                                   |           |
|             | !! :  | RT astrolabes   |          | fermions   |           |
|             | scillations                                     | celestial navigation  |          | protons  |           |
| DEF sphere. | Irregular oscillations in the solar atmo-       | equinoxes   |          | solar protons  |           |
| GS          | oscillations                                    | seasons   | RT       | baryons  |           |
| 00          | . stellar oscillations                          | solstices   |          | sun  |           |
|             | solar oscillations                              | sun<br>zenith   | solar ra | idar echoes  |           |
|             | stellar motions                                 | 2011111   |          | echoes   |           |
|             | . stellar oscillations                          | solar power generation  | 00       | . radar echoes   |           |
|             | solar oscillations                              | USE solar generators  |          | solar radar echoes                                     |           |
| RT          | astronomical models                             | _   | RT       | sun  |           |
|             | atmospheric models cataclysmic variables        | solar power satellites  |          |  |           |
|             | solar activity effects                          | DEF Proposed very large space structures  | solar ra |  |           |
|             | solar atmosphere                                | consisting of hundreds of square miles of solar   |          | The total electromagnetic                              | radiation |
|             | stellar models                                  | thermal collectors and/or photovoltaic convert-   |          | by the sun. extraterrestrial radiation                 |           |
|             | sun   | ers constructed or assembled in space. Power would be transmitted to Earth in microwave | 63       | . solar radiation                                      |           |
|             | variable stars                                  | form.   |          | circumsolar radiation                                  |           |
|             |   | GS artificial satellites  |          | solar corpuscular radiation                            | 1         |
| solar pa    | arallay   | . solar power satellites  |          | solar electrons  |           |
|             | The angle at the sun subtended by the           | RT large space structures   |          | solar neutrinos  |           |
|             | ial diameter of the Earth.                      | power beaming   |          | solar neutrons   |           |
| ĠS          | parallax  | satellite power transmission  |          | solar protons  |           |
|             | solar parallax                                  | sun   |          | solar cosmic rays                                      |           |
| RT          | astronomy                                       | odor nower courses  |          | solar radio emission solar radio bursts                |           |
|             | stellar parallax                                | solar power sources USE solar generators  |          | solar radio bursts                                     |           |
|             | sun   | OOL Solal generators  |          | type 2 bursts  |           |
|             |   | solar powered aircraft  |          | type 4 bursts  |           |
| solar pl    | hysics  | DEF Aircraft powered by solar energy.   |          | type 5 bursts  |           |
| DEF         | The study of the structure and activi-          | RT ∞ aircraft   |          | solar wind   |           |
| ties of the |   | solar cells   |          | solar x-rays   |           |
| GS          | astrophysics                                    | solar electric propulsion   |          | sunlight   |           |
|             | . stellar physics                               | solar propulsion  | RT       | aerospace environments                                 |           |
| DT          | solar physics                                   | sun   |          | albedo   |           |
| RT          | •   | solar probes  |          | atmospheric refraction                                 |           |
|             | helioseismology<br>International Quiet Sun Year | solar probes GS unmanned spacecraft   |          | circumsolar telescopes climatology                     |           |
|             | photosphere                                     | . space probes  |          | cloud cover  |           |
| ~           | o physics                                       | . solar probes  |          | corpuscular radiation                                  |           |
| ~           | plasmas (physics)                               | Helios 1  |          | cosmic noise   |           |
| 0           | science   | Helios 2  |          | cosmic rays  |           |
|             | solar convection (astronomy)                    | Helios A  |          | dayglow  |           |
|             | solar interior                                  | Helios B  |          | electromagnetic radiation                              |           |
|             | solar optical telescope                         | Starprobe spacecraft  |          | extreme ultraviolet radiation                          |           |
|             | Spartan satellites                              | Sunblazer space probe   |          | gegenschein  |           |
|             | sun   | RT Helios Project   |          | infrared radiation                                     |           |

| insolation   |  |   |
|--|--|---|
|  | solar radio bursts   | radio bursts  |
| ionizing radiation   | type 2 bursts  |   |
| IRIS satellites  | type 3 bursts  | solar radio waves   |
| light (visible radiation)  | · · · · · · · · · · · · · · · · · · ·  | USE solar radio emission  |
| ,  | type 4 bursts  | COL COIGN TUGIO CIMICOTON   |
| long wave radiation  | type 5 bursts  |   |
| longitudinal waves   | solar radio emission   | solar receivers   |
| photosynthetically active radiation  |  | USE solar collectors  |
| ∞ radiation  | solar radio bursts   |   |
|  | type 2 bursts  | solar reflectors  |
| radiation belts  | type 3 bursts  | GS reflectors   |
| radiation pressure   |  |   |
| radiative transfer   | type 4 bursts  | . solar reflectors  |
| radio waves  | type 5 bursts  | solar collectors  |
|  | extraterrestrial radiation   | solettas  |
| rectennas  | . extraterrestrial radio waves   | RT focusing   |
| sky brightness   |  | 9   |
| solar energy   | radio bursts   | heat shielding  |
| solar-pumped lasers  | solar radio bursts   | heliostats  |
|  | type 2 bursts  | mirrors   |
| stellar radiation  | · · · · · · · · · · · · · · · · · · ·  | parabolic reflectors  |
| sun  | type 3 bursts  |   |
| thermal radiation  | type 4 bursts  | paraboloid mirrors  |
| ultraviolet radiation  | type 5 bursts  | photothermal conversion   |
|  | · · · · · · · · · · · · · · · · · · ·  | radiant flux density  |
| zodiacal light   | solar radio emission   | solar atriums   |
|  | solar radio bursts   |   |
| Solar Radiation 1 satellite  | type 2 bursts  | spacecraft radiators  |
| GS artificial satellites   | · · · · · · · · · · · · · · · · · · ·  | sun   |
| . Solar Radiation 1 satellite  | type 3 bursts  |   |
|  | type 4 bursts  | solar rotation  |
| RT galactic radiation  | type 5 bursts  | UF Carrington rotation  |
| ∞ radiation  |  |   |
| sun  | . solar radiation  | GS gyration   |
| 0011   | solar radio emission   | . rotation  |
| Solar Radiation 3 satellite  | solar radio bursts   | stellar rotation  |
|  |  | solar rotation  |
| GS artificial satellites   | type 2 bursts  |   |
| . Solar Radiation 3 satellite  | type 3 bursts  | stellar motions   |
| RT galactic radiation  | type 4 bursts  | . stellar rotation  |
| ∞ radiation  | 21   | solar rotation  |
|  | type 5 bursts  |   |
| sun  | RT interplanetary shock waves  | RT sun  |
|  | , ,  | twenty-seven day variation  |
| solar radiation shielding  | sun  |   |
|  |  | solar sails   |
| GS protection  |  | GS sails  |
| . radiation protection   |  |   |
| radiation shielding  | solar radio emission   | . solar sails   |
| solar radiation shielding  | DEF Radiation at radio frequencies originat-   | RT propulsion   |
|  |  | space flight  |
| shielding  | ing from the sun or its corona. Used for solar   | spacecraft propulsion   |
| . radiation shielding  | noise and solar radio waves.   |   |
| solar radiation shielding  | UF solar noise   | sun   |
| RT ∞ radiation   | solar radio waves  |   |
|  |  | solar sea power plants  |
| satellite temperature  | GS electromagnetic radiation   | GS electric generators  |
| spacecraft shielding   | . radio waves  |   |
| sun  | extraterrestrial radio waves   | direct power generators   |
|  |  | thermoelectric generators   |
| solar radio bursts   | solar radio emission   | solar sea power plants  |
|  | solar radio bursts   | RT electric power plants  |
| DEF Sudden increases in the flux from the  | type 2 bursts  |   |
| sun at radio frequencies.  | **   | energy conversion   |
| GS bursts  | type 3 bursts  | ∞ generators  |
| . radio bursts   | type 4 bursts  | ocean temperature   |
|  | type 5 bursts  | ocean thermal energy conversion   |
| solar radio bursts   |  |   |
| type 2 bursts  | radio emission   | ∞ power plants  |
|  |  |   |
|  | solar radio emission   | solar generators  |
| type 3 bursts  | solar radio emission   | solar generators<br>sun   |
| type 3 bursts<br>type 4 bursts   | solar radio bursts   |   |
| type 3 bursts  |  | sun   |
| type 3 bursts<br>type 4 bursts<br>type 5 bursts  | solar radio bursts<br>type 2 bursts  | sun<br>solar seismology   |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation  | solar radio bursts type 2 bursts type 3 bursts   | sun   |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation . radio waves  | solar radio bursts type 2 bursts type 3 bursts type 4 bursts   | sun<br>solar seismology<br>USE <b>helioseismology</b>   |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation radio waves extraterrestrial radio waves   | solar radio burststype 2 burststype 3 burststype 4 burststype 5 bursts   | sun<br>solar seismology   |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation . radio waves extraterrestrial radio waves radio bursts  | solar radio bursts type 2 bursts type 3 bursts type 4 bursts type 5 bursts emission  | sun<br>solar seismology<br>USE <b>helioseismology</b>   |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation radio waves extraterrestrial radio waves   | solar radio burststype 2 burststype 3 burststype 4 burststype 5 bursts   | sun solar seismology USE helioseismology solar selective coatings   |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation . radio waves extraterrestrial radio waves radio bursts solar radio bursts   | solar radio bursts type 2 bursts type 3 bursts type 4 bursts type 5 bursts emission radio emission   | sun solar seismology USE helioseismology solar selective coatings USE selective surfaces  |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation . radio waves extraterrestrial radio waves radio bursts solar radio bursts type 2 bursts   | solar radio bursts type 2 bursts type 3 bursts type 4 bursts type 5 bursts emission radio emission solar radio emission  | sun  solar seismology USE helioseismology  solar selective coatings USE selective surfaces solar sensors  |
| type 3 bursts type 4 bursts type 5 bursts electromagnetic radiation . radio waves extraterrestrial radio waves radio bursts solar radio bursts type 2 bursts type 3 bursts type 3 bursts   | solar radio bursts type 2 bursts type 3 bursts type 4 bursts type 5 bursts emission radio emission . solar radio emission solar radio bursts   | sun  solar seismology USE helioseismology  solar selective coatings USE selective surfaces  solar sensors UF sun sensors  |
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| RT   | space simulators  | Humason comet   | solar dynamic power systems  |
|--|---|---|--|
|  | sun   | IRAS-Araki-Alcock comet   | thermal energy   |
|  | test facilities   | Jupiter satellites  |  |
|  |   | Kohoutek comet  | solar thermal propulsion   |
| solar s  | pectra  | Kuiper belt   | DEF Proposed energy source for spacecraf   |
| GS   | spectra   | Mercury surface   | propulsion by passing hydrogen through a hea   |
|  | . radiation spectra   | meteoroids  | exchanger placed at the focal point of a large   |
|  | electromagnetic spectra   | Morehouse comet   | parabolic dish solar concentrator mirror.  |
|  | stellar spectra   | Mrkos comet   | GS propulsion  |
|  | solar spectra   | natural satellites  | . low thrust propulsion  |
| RT   | absorption spectra  | Oort cloud  | solar propulsion   |
|  | astronomical spectroscopy   | planetary geology   | solar thermal propulsion   |
|  | continuous spectra  | planets   | . spacecraft propulsion  |
|  | coronas   | protoplanets  | solar propulsion   |
|  | D lines   | Quaoar  | solar thermal propulsion   |
|  | emission spectra  | Rhea (astronomy)  | RT propulsion system performance   |
|  | filtergrams   | Saturn rings  | solar electric propulsion  |
|  | Fraunhofer lines  | Schwassmann-Wachmann comet  | sun  |
|  | H alpha line  | solar nebula  |  |
|  | H beta line   | solar neighborhood  | solar total energy systems   |
|  | H gamma line  | solar system evolution  | DEF Systems for converting solar energy  |
|  | H lines   | sun   | directly into electrical and thermal energy.   |
|  | infrared spectra  | ∞ systems   | GS energy conversion   |
|  | line spectra  | Tempel 2 comet  | . solar energy conversion  |
|  | Lyman spectra   | terrestrial planets   | solar total energy systems   |
|  | molecular spectra   | Toro asteroid   | total energy systems   |
|  | oxygen spectra  | trans-Neptunian objects   | solar total energy systems   |
|  | sun   | Venus surface   | RT ∞ conversion  |
|  | ultraviolet spectra   | Vesta asteroid  | direct power generators  |
|  | visible spectrum  | Voyager 1977 mission  | ∞ energy   |
|  | x ray spectra   | West comet  | sun  |
|  |   |   | ∞ systems  |
| solar s  | pectrometers  | solar system evolution  |  |
| GS   | measuring instruments   | (added January 1991)  | solar transition region  |
|  | . radiation measuring instruments   | DEF The origin and development of the   | (added September 1993)   |
|  | actinometers  | solar system.   | DEF A layer of the solar atmosphere only a   |
|  | solar spectrometers   | GS evolution (development)  | few hundred miles thick between the chromo   |
|  | . spectrometers   | solar system evolution  | sphere and the corona across which the tem   |
|  | solar spectrometers   | RT Genesis mission  | perature rises rapidly from a few times 10(exp 4   |
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|  | emission spectra  | lunar evolution   | GS environments  |
|  | filter wheel infrared spectrometers   | planetary evolution   | <ul> <li>extraterrestrial environments</li> </ul>  |
|  | infrared spectrometers  | planetary systems   | stellar atmospheres  |
|  | spectroheliographs  | planets   | solar atmosphere   |
|  | sun   | protoplanetary disks  | solar transition region  |
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|         | interplanetary gas           |           | solders                                   | RT      | solid oxide fuel cells                |
|---------|------------------------------|-----------|---|---------|---------------------------------------|
|         |                              |           |   | IXI     | Solid Oxide Idel Cells                |
|         | interplanetary medium        |           | welding                                   |         |                                       |
|         | interplanetary shock waves   |           |   |         | ubricants                             |
|         | M region                     | solders   |   | SN      | (EXCLUDES SEMISOLIDS SUCH AS          |
|         | magnetic clouds              | GS        | alloys                                    |         | GREASES)                              |
|         | magnetic sails               |           | . solders                                 | GS      | lubricants                            |
|         | magnetopause                 | RT        | lead alloys                               |         | . solid lubricants                    |
|         | magnetosheath                | 111       | sealers                                   | RT      | binders (materials)                   |
|         | •                            |           |   |         | gas lubricants                        |
|         | planetary magnetotails       |           | soldering                                 |         | graphite                              |
|         | plasmapause                  |           | tin alloys                                |         | self lubricating materials            |
|         | Polar/GGS spacecraft         |           | zinc alloys                               |         | sell lubricating materials            |
| 0       | o radiation                  |           | ·   |         |                                       |
|         | radiation pressure           | solenoi   | d valves                                  |         | nechanics                             |
|         | SOHO Mission                 |           | valves                                    | RT      | continuum mechanics                   |
|         | solar planetary interactions | 00        |   |         | finite element method                 |
|         |                              |           | solenoid valves                           |         | mechanical properties                 |
|         | stellar winds                | RT        | automatic control valves                  | c       | ∞ mechanics (physics)                 |
|         | sun                          |           | electric control                          |         | ∞ science                             |
|         | Wind/GGS spacecraft          | ~         | electric equipment                        |         |                                       |
|         |                              |           | electric relays                           |         | solids                                |
| solar w | ind velocity                 |           | electric switches                         |         | structural analysis                   |
| GS      | dynamic characteristics      |           | hydraulic control                         |         |                                       |
|         | . flow characteristics       |           |   | solid n | itrogen                               |
|         | flow velocity                |           | off-on control                            | GS      | chemical elements                     |
|         | •                            |           | solenoids                                 |         | . nitrogen                            |
|         | solar wind velocity          |           |   |         | solid nitrogen                        |
|         | rates (per time)             | solenoi   | ds  |         | _                                     |
|         | . flow velocity              | SN        | (EXCLUDES METEOROLOGICAL                  |         | gases                                 |
|         | solar wind velocity          | 0.1       | SOLENOIDS)                                |         | . nitrogen                            |
|         | . wind velocity              | RT        | actuators                                 |         | solid nitrogen                        |
|         | solar wind velocity          |           | electric relays                           |         | . solidified gases                    |
|         | velocity                     |           | electromagnets                            |         | solid cryogens                        |
|         | ,                            |           |   |         | solid nitrogen                        |
|         | . flow velocity              |           | magnet coils                              |         | solids                                |
|         | solar wind velocity          |           | solenoid valves                           |         |                                       |
|         | . wind velocity              |           | toroidal plasmas                          |         | . solidified gases                    |
|         | solar wind velocity          |           |   |         | solid cryogens                        |
| RT      | alpha particles              | solettas  |   |         | solid nitrogen                        |
|         | Earth magnetosphere          | DEF       | Orbiting solar mirrors (reflectors).      | RT      | cryogenics                            |
|         |                              | GS        | mirrors                                   |         | refrigerants                          |
|         | magnetic disturbances        | GS        |   |         | romgoranto                            |
|         | magnetohydrodynamic flow     |           | . solettas                                | colid o | xide fuel cells                       |
|         | solar planetary interactions |           | reflectors                                |         |                                       |
|         | stellar winds                |           | . solar reflectors                        | `       | led December 1995)                    |
|         | sun                          |           | solettas                                  | GS      | electric generators                   |
|         | velocity measurement         | RT ∝      | platforms                                 |         | . direct power generators             |
|         | •                            |           | spacecraft                                |         | fuel cells                            |
| solar x | ravs                         |           |   |         | solid oxide fuel cells                |
| GS      | electromagnetic radiation    | col gol   | nranacaa                                  |         | electrochemical cells                 |
| 00      |                              |           | processes                                 |         | . fuel cells                          |
|         | . x rays                     | RT        | alkoxides                                 |         | solid oxide fuel cells                |
|         | solar x-rays                 |           | ceramic nuclear fuels                     | БТ      |                                       |
|         | extraterrestrial radiation   |           | nuclear fuels                             | RT      | oxides                                |
|         | . solar radiation            | 00        | processes                                 |         | solid electrolytes                    |
|         | solar x-rays                 |           | xerogels                                  |         |                                       |
|         | ionizing radiation           |           | Actogets                                  | solid p | hases                                 |
|         | . x rays                     |           |   | GS      | solid phases                          |
|         |                              | solid arg |   |         | . Laves phases                        |
| БТ      | solar x-rays                 | USE       | solidified gases                          | RT      | eutectics                             |
| RT      | coronal holes                |           |   | IXI     |                                       |
|         | sun                          | solid cr  | yogen cooling                             |         | gas-metal interactions                |
|         |                              | DEE       | Cooling with solidified cryogenic fluids. |         | gas-solid interfaces                  |
| solar-p | umped lasers                 |           |   |         | liquid phases                         |
| UF      | solar lasers                 | GS        | cooling                                   |         | liquid-solid interfaces               |
| GS      | stimulated emission devices  |           | . solid cryogen cooling                   |         | liquidus                              |
| -       | . lasers                     | RT        | cryogenic fluids                          |         | metallic hydrogen                     |
|         |                              |           | cryogenics                                |         | phase diagrams                        |
| БТ      | . solar-pumped lasers        |           | liquefied gases                           |         |                                       |
| RT      | laser pumping                |           |   |         | phase separation (materials)          |
|         | optical pumping              | solid cr  | vogone                                    | c       | ∞ phases                              |
|         | solar energy conversion      |           |   |         | solidified gases                      |
|         | solar radiation              | DEF       | Solidified cryogenic fluids.              |         | solidus                               |
|         |                              | GS        | gases                                     |         | syntectic alloys                      |
| soldere | d joints                     |           | . solidified gases                        |         | ÷                                     |
| GS      | joints (junctions)           |           | solid cryogens                            | solid n | ropellant combustion                  |
|         | . metal joints               |           | solid nitrogen                            |         | The burning of solid propellants by   |
|         |                              |           | solids                                    |         | 0 1 1                                 |
|         | soldered joints              |           | . solidified gases                        |         | exidation and production of expanding |
| RT      | beam leads                   |           | solid cryogens                            |         | heat, and light.                      |
|         | bonded joints                |           |   | GS      | combustion                            |
|         | butt joints                  |           | solid nitrogen                            |         | . propellant combustion               |
|         | lap joints                   | RT        | cooling systems                           |         | solid propellant combustion           |
|         | soldering                    |           | cryogenic equipment                       |         | solid propellant ignition             |
|         | coldoning                    |           | cryogenics                                | RT      | burning rate                          |
| solderi | na                           |           | liquid nitrogen                           | 17.1    | combustion stability                  |
|         |                              |           | . •                                       |         |                                       |
| GS      | soldering                    | اء امالم  | notrodos                                  |         | erosive burning                       |
|         | . ultrasonic soldering       |           | ectrodes                                  |         | fuel combustion                       |
| RT      | bonding                      | GS        | electrodes                                |         | heat generation                       |
|         | brazing                      |           | . solid electrodes                        |         | metal combustion                      |
|         | fluxes                       | RT        | transconductance                          |         | propellant chemistry                  |
|         | heat affected zone           |           |   |         | propellant consumption                |
| -       | o joining                    | solid of  | ectrolytes                                |         | propolitant consumption               |
| c       |                              |           |   | اخالم   | ropollant ignition                    |
|         | laser welding                |           | Single crystals, certain alloys, alkaline |         | ropellant ignition                    |
|         | low temperature brazing      |           | and other compact compounds used in       | GS      | combustion                            |
|         | metal bonding                |           | cells (batteries).                        |         | . propellant combustion               |
|         | metal-metal bonding          | GS        | conductors                                |         | solid propellant combustion           |
|         | sealing                      |           | . electrolytes                            |         | solid propellant ignition             |
|         | soldered joints              |           | solid electrolytes                        |         | ignition                              |
|         | ,                            |           |   |         | <b>U</b> 1.                           |

solid propellant ignition

hybrid propellants hypergolic rocket propellants ianiters ignition temperature

inhibitors metal combustion pyrophoric materials

squibs

solid propellant rocket engines

Rocket engines fueled with solid propellants. Such motors consist essentially of a combustion chamber containing the propellant, and a nozzle for the exhaust jet, although they often contain other components, such as grids or liners.

GS engines

. rocket engines

.. solid propellant rocket engines

. . . Algol engine

. . . Algor engine
. . . apogee boost motors
. . . ASROC engine

Hercules engine

. M-46 engine . M-55 engine . M-56 engine

M-57 engine

. Nike booster rocket engines

P-1 engine

SL-3 rocket engine

Space Shuttle Boosters
 Advanced Solid Rocket Motor

(STS)
... SYNCOM apogee engines

... TX-77 engine ... TX-354 engine

. . . X-248 engine

X-254 engine

. . . X-258 engines . X-258-B1 engine

X-259 engine

. XM-33 engine

RT air slew missiles

Antares rocket vehicle

Arcas rocket vehicles

Argo rocket vehicles

Astrobee 1500 rocket vehicle

Astrobee rocket vehicles

Athena rocket vehicle BE-3 engine

Berenice rocket vehicle

Black Brant 1 sounding rocket

Black Brant 2 sounding rocket

Black Brant 2 sounding rocket Black Brant 3 sounding rocket Black Brant 4 sounding rocket Black Brant 5 sounding rocket Black Brant sounding rockets Blue Goose missile Blue Scout rocket vehicle BOMARC A missile BOMARC B missile

bonded joints booster rocket engines

burning rate

burnout

Cajun rocket vehicle

Diamant launch vehicle

ducted rocket engines EXOS sounding rocket

Falcon missile

Folding Fin aircraft rocket vehicle

Genie rocket vehicle

Hawk missile

Honest John rocket vehicle

hybrid propellant rocket engines

∞ hybrid rocket engines

integral rocket ramjets internal combustion engines

Jaguar rocket vehicle

JATO engines

Javelin rocket vehicle

Juno 1 launch vehicle

Juno 2 launch vehicle

Juno launch vehicles

Jupiter C rocket vehicle Kappa 8 rocket vehicle

Kappa 9 rocket vehicle

Kappa rocket vehicles

Lambda rocket vehicles

liquid propellant rocket engines

Little Joe 2 launch vehicle

Little John rocket vehicle

Loki rocket vehicle

Mace missiles

Matra missile

Mauler missile Meteor 1 rocket vehicle

Minuteman ICBM

Nike-Ajax missile

Nike-Apache rocket vehicle

Nike-Cajun rocket vehicle

Nike-Hercules missile

Nike-Javelin rocket vehicle Nike-Tomahawk rocket vehicle

Nike-Zeus missile

Pershing missile

Phoenix sounding rocket

polaris missiles
RAM B launch vehicle

Redeye missile
Regulus missile
restartable rocket engines
retrorocket engines

Rubis rocket vehicle Scout launch vehicle

sergeant missiles

Shrike missile

Skua rocket vehicles

Skybolt missile

Skylark rocket vehicle

Space Shuttle upper stage D Sparrow 2 missile

Sparrow missiles

Sprint missile

SS-11 missile

Sunblazer space probe

sustainer rocket engines

Talos missile

tartar missile terrier missile

Thor Able rocket vehicle

Thor Delta launch vehicle

Thor launch vehicles Titan launch vehicles

Trailblazer 1 reentry vehicle
Trailblazer 2 reentry vehicle

ullage rocket engines

vanguard 2 launch vehicle

Vernier engines
WASP sounding rocket

X-17 reentry vehicle Zuni rocket vehicle

## solid propellants

DEF Specifically, a rocket propellant in the solid form, usually containing both fuel and oxidizer combined or mixed, and formed into a monolithic (not powdered or granulated) grain.

propellants

. solid propellants
. . case bonded propellants

. . composite propellants

nitramine propellants

plastic propellants

solid rocket propellants double base rocket propellants

 $\mathsf{HMX}$ 

HTPB propellants

. . metal propellants

aircraft fuels

chemical fuels colloidal propellants

gelled propellants

high temperature propellants hybrid propellants

inhibitors

metal fuels

nitroguanidine plasticizers

propellant binders

propellant grains

rocket propellants

storable propellants

solid rocket binders GS additives

. propellant additives

. . propellant binders

solid rocket binders

binders (materials)

. propellant binders

solid rocket binders glycidyl azide polymer

plasticizers

Solid Rocket Boosters (Space Shuttle)

USE Space Shuttle Boosters

#### solid rocket propellants

GS propellants

. rocket propellants

.. solid rocket propellants

... double base rocket propellants

HMX

... HTPB propellants

. . . metal propellants

. solid propellants . . solid rocket propellants

. . . double base rocket propellants

. . . HMX

... HTPB propellants

. . metal propellants

ammonium perchlorates

burning rate case bonded propellants

composite propellants

Domino propellants gelled rocket propellants hybrid propellants

liquid rocket propellants monopropellants potassium perchlorates

propellant grains

RDX

rocket engines slurry propellants

solid rotation USE rotating bodies

solid solutions

mixtures GS

. solutions . . solid solutions

solids solid solutions

aging (metallurgy)

alloying

allovs antiphase boundaries

cluster variation method

liquid phases

liquidus melting points

order-disorder transformations

Ostwald ripening

phase diagrams precipitation hardening

supersaturation ternary systems

solid state

crystallization energy gaps (solid state) melting points

metallic hydrogen

solid state devices

DEF Devices which utilize the electric, magnetic, and photic properties of the solid materials, e.g., binary magnetic cores or transistors.

electronic equipment

. . cryotrons . . crystal rectifiers

. . metal-nitride-oxide-semiconductors . . multispectral linear arrays . . semiconductor devices

solid state devices

. . . avalanche diodes

. cryosar ... Barritt diodes

. . . charge transfer devices

.... bucket brigade devices
.... charge coupled devices

. . . . charge injection devices

| germanium diodes                         | wafers  | pollution   |
|--|---|---|
| heterojunction devices                   |   | radioactive wastes  |
| high electron mobility transistors       | solid state lasers  | residues  |
| MODFETS                                  | GS electronic equipment                                       | sewage  |
| junction diodes                          | . solid state devices   | sludge  |
| MIM diodes                               | <b>solid state lasers</b><br>aluminum gallium arsenide lasers | waste disposal<br>waste energy utilization                |
| step recovery diodes                     | DBR lasers  | waste energy dilization                                   |
| light emitting diodes                    | fiber lasers  | waste dilization  |
| metal oxide semiconductors               | gallium arsenide lasers                                       | solidification  |
| CMOS                                     | quantum cascade lasers  | UF rapid solidification                                   |
| ITO (semiconductors)                     | quantum well lasers   | GS solidification   |
| SOS (semiconductors)                     | ruby lasers   | <ul> <li>directional solidification (crystals)</li> </ul> |
| MIM (semiconductors)                     | YAG lasers  | . melt spinning   |
| MIS (semiconductors)                     | YLF lasers  | RT casting  |
| MOM (semiconductors)                     | stimulated emission devices                                   | castings  |
| MSM (semiconductors)                     | . lasers  | coagulation   |
| NDM semiconductor devices                | solid state lasers  | crystallization   |
| neuristors                               | aluminum gallium arsenide lasers                              | freezing<br>gelation                                      |
| parametric diodes                        | DBR lasers  | ingots  |
| photodiodes                              | fiber lasers  | melting points  |
| photovoltaic cells                       | gallium arsenide lasers<br>quantum cascade lasers             | mushy zones   |
| solar cells                              | quantum cascade lasers  | occlusion   |
| vertical junction solar cells            | ruby lasers   | Ostwald ripening  |
| Schottky diodes                          | YAG lasers  | phase transformations                                     |
| semiconductor lasers                     | YLF lasers  | rheocasting   |
| aluminum gallium arsenide                | RT continuous wave lasers                                     | ∞ setting   |
| lasers                                   | distributed feedback lasers                                   | solidified gases  |
| gallium arsenide lasers                  | infrared lasers   | transition temperature                                    |
| quantum cascade lasers                   | laser cavities  | vitrification   |
| quantum well lasers                      | Q switched lasers   |   |
| YLF lasers                               | semiconductor lasers  | solidified gases  |
| SOI (semiconductors)                     | surface emitting lasers                                       | UF solid argon  |
| thermistors                              |   | GS gases  |
| thyristors                               | solid state physics   | . solidified gases  |
| silicon controlled rectifiers            | SN (USE OF A MORE SPECIFIC TERM IS                            | solid cryogens  |
| transferred electron devices             | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)                    | solid nitrogen<br>solids                                  |
| transistor amplifiers                    | DEF The study of the physical structure and                   | . solidified gases  |
| transistors                              | properties of solid matter, including electrical              | solid cryogens  |
| bipolar transistors                      | conduction in metal crystals and semiconduc-                  | solid dryogens  |
| field effect transistors                 | tors, superconductivity, and photoconductivity.               | RT cryogenic fluids                                       |
| charge flow devices                      | RT condensed matter physics                                   | cryogenic temperature                                     |
| JFET                                     | crystallography   | cryogenics  |
| MODFETS                                  | electrical properties   | freezing  |
| high electron mobility transistors       | electron mobility   | low temperature physics                                   |
| MODFETS                                  | energy gaps (solid state)                                     | melting points  |
| junction transistors                     | forbidden transitions   | metallic hydrogen   |
| JFET                                     | hole mobility   | solid phases  |
| phototransistors                         | magnetic properties optical properties                        | solidification  |
| silicon transistors                      | ∞ physics   |   |
| SOS (semiconductors)                     | ∞ priysics<br>∞ science                                       | solids  |
| cascode devices<br>quantum well infrared | semiconductors (materials)                                    | GS solids   |
| photodetectors                           | superconductivity   | . organic solids  |
| TRAPATT devices                          | theoretical physics   | . solid solutions   |
| varactor diodes                          | thin films  | . solidified gases<br>solid cryogens                      |
| variators                                | transport properties  | solid cryogens  |
| SIS (semiconductors)                     |   | RT ∞ bodies   |
| SIS (superconductors)                    | solid surfaces  | ∞ fluids  |
| solid state lasers                       | GS solid surfaces   | ∞ materials   |
| aluminum gallium arsenide lasers         | . crystal surfaces  | metallic hydrogen   |
| DBR lasers                               | RT liquid surfaces  | phase transformations                                     |
| fiber lasers                             | metal surfaces  | semisolids  |
| gallium arsenide lasers                  | surface cracks  | solid mechanics   |
| quantum cascade lasers                   | surface finishing   | solid state   |
| quantum well lasers                      | surface properties  | thermochromatic materials                                 |
| ruby lasers                              | ∞ surfaces  | vapor phases  |
| YAG lasers                               | aulid accompanions  |   |
| YLF lasers                               | solid suspensions GS mixtures                                 | solids flow   |
| RT amplifiers                            | . solid suspensions   | GS fluid flow   |
| bubble technique capacitors              | RT colloidal propellants                                      | . <b>solids flow</b><br>RT ∞ flow                         |
| circuits                                 | composite materials   | flow measurement  |
| ∞ devices                                | metallography   | flow theory   |
| electric bridges                         | particulates  | mass flow   |
| laser cavities                           | phase diagrams  | multiphase flow   |
| lasers                                   | ∞ suspensions   | particle size distribution                                |
| MBM junctions                            | ,   | steady flow   |
| miniature electronic equipment           | solid wastes  | two phase flow  |
| oscillators                              | GS wastes   | uniform flow  |
| photomasks                               | . solid wastes  | unsteady flow   |
| rectifiers                               | RT composting   | •   |
| resistors                                | garbage   | solid-solid interfaces                                    |
| signal generators                        | human wastes  | GS interfaces   |
| superconductors (materials)              | industrial wastes   | solid-solid interfaces                                    |
| thin films                               | landfills   | RT antiphase boundaries                                   |
| threshold voltage                        | liquid wastes   | gas-solid interfaces                                      |
| transformers                             | metabolic wastes  | liquid-solid interfaces                                   |

surface properties viscosity product development solutes solvent retention solidus dissolved organic matter RT The occurrence of solvent residues in RT binary systems (materials) dissolving chemical or material end products or intermediliquid phases solutions liquidus RT dissolving solid phases ∞ solution solvents (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN solions solvents RT circuits DEF The liquid part of an aerosol formuladissolving diodes tion used to dissolve solid or other liquid parts. problem solving integrators Used for thinners. solutions ion currents UF thinners GS solvents solutions solitary waves . tetrahydrofuran GS mixtures DEF Nonlinear waves capable of propaga-. solutions . turpentine tion without spreading out, breaking up, or disadditives . . aqueous solutions sipating their strength over distance. Used for coatings . . gas mixtures Solitrons diluents . . . air solitons UF . . . . alveolar air dissolving GS traveling waves extraction . . . . compressed air solitary waves furans expired air RT backward waves . . . . high temperature air . . . . liquid air paint removal cnoidal waves solutions elastic waves solvation detonable gas mixtures electromagnetic radiation solvent retention . . photographic emulsions plane waves solvolysis ... nuclear emulsions pulses toluene solid solutions radio waves triacetin azeotropes rates (per time) trichloroethylene composition (property) velocity dissolved gases solvolysis emulsions solithanes GS reclamation eutectics . materials recovery Henry law RT elastomers . . solvolvsis Raoult law ∞ polymers RT recycling synthetic rubbers solubility solvents solutes ∞ solution solitons Somalia solvents USE solitary waves GS nations titration Somalia Solomon computers Africa GS data processing equipment The process of swelling, getting, or . computers Sommerfeld approximation dissolving of a material by a solvent; for resins, analysis (mathematics) . . digital computers the solvent can be plasticized. . numerical analysis ... Solomon computers aqueous solutions . . approximation chemical reactions . . . Sommerfeld approximation Solrad 10 satellite reaction kinetics antenna radiation patterns USE Explorer 44 satellite solvents directional antennas electromagnetic fields solvent extraction solstices radio transmission GS extraction DEF The two points of the ecliptic farthest solvent extraction from the celestial equator; two points on the Sommerfeld waves ion extraction celestial sphere occupied by the sun at maxielectromagnetic radiation
. Sommerfeld waves purification mum declination. ∞ separation RT equinoxes surface waves seasons solvent refined coal . Sommerfeld waves solar position Low-sulfur distillate fuels from coal, dielectric properties summer plus the byproducts of methane, light hydrocarelectric conductors winter bons, and naphtha, all useful for making pipeline gas, ethylene, and high-octane unleaded gasosonar solubility A method or system, analogous to line. immiscibility GS radar used under water, in which high frequency UF fuels miscibility . chemical fuels sound waves are emitted so as to be reflected clarity . . hydrocarbon fuels back from objects, and used to detect the obconcentration (composition) . . . fossil fuels jects of interest. Called asdic by the British. diffusivity . . . . coal (From SOund, NAvigation, and Ranging.) dissolved gases . . . solvent refined coal GS sonar dissolving resources sonobuoys gas-solid interfaces . Earth resources distance measuring equipment Henry law . . fossil fuels echo sounding hydrophobicity echo suppressors . . . coal hygroscopicity . solvent refined coal hydrophones incompatibility rocks LOFAR liquid phases . sedimentary rocks navigation aids liquid-gas mixtures sound localization . . carbonaceous rocks liquid-liquid interfaces . . . coal sound ranging liquid-vapor interfaces ultrasonic wave transducers ... solvent refined coal miscibility gap underwater acoustics benzene mixtures bitumens underwater communication phase diagrams carbonaceous materials phase separation (materials) coal liquefaction sondes precipitation (chemistry) coal utilization meteorological probes solutions fractionation GS measuring instruments supercritical fluids fuel oils . sondes thermodynamic properties gasoline . . dropsondes

hydrocarbon fuel production

methane

. . Judi-Dart rocket

radiosondes

thixotropy turbidity

| ionosondes  | sonoluminescence   | GS payloads   |
|---|--|---|
| rawinsondes   | Sonoidiminescende  | . sortie systems  |
| ozonesondes   | soot   | RT space laboratories   |
| RT Apache rocket vehicle Cajun rocket vehicle       | GS carbonaceous materials . soot   | Space Shuttle payloads space shuttles                                 |
| ∞ probes  | particles  | space stations  |
| sounding  | . particulates   | Spacelab payloads   |
| sounding rockets                                    | <b>soot</b><br>products  | parting   |
| sonic anemometers                                   | . reaction products  | sorting USE classifying   |
| GS measuring instruments                            | combustion products  | ,g  |
| . anemometers sonic anemometers                     | <b>soot</b><br>RT air pollution  | sorting algorithms  |
| RT acoustics  | carbon   | (added November 1994)  DEF An algorithm that finds the most signifi-  |
| flowmeters  | fire damage  | cant element in a set which is then compared to                       |
| hot-film anemometers<br>velocity measurement        | Glory Mission satellite<br>smoke   | each element in succession to achieve an effi-                        |
| •   | smoke abatement  | cient sorting process.  GS mathematical logic                         |
| sonic booms  DEF Noises created by shock waves that | carbatas   | . algorithms  |
| emanate from aircraft or other objects traveling    | sorbates  DEF Gas taken up by sorbents.  | sorting algorithms  |
| at or above sonic velocity.                         | RT sorbents  | RT ∞ classifying<br>computer techniques                               |
| GS elastic waves<br>. shock waves                   | sorption   | heuristic methods   |
| sonic booms   | sorbents   | hypercube multiprocessors   |
| . sound waves                                       | DEF The materials which take up gas by   | iterative solution parallel processing (computers)                    |
| noise (sound)<br>aircraft noise                     | sorption. GS sorbents  | Poisson density functions   |
| sonic booms   | GS sorbents . absorbents   | selection   |
| RT acoustic velocity                                | . adsorbents   | sequential analysis   |
| aerodynamic noise<br>∞ boom                         | RT sorbates  | SOS (semiconductors)  |
| caustic lines                                       | sorption   | UF silicon-on-sapphire junctions                                      |
| jet aircraft noise                                  | Soret coefficient  | silicon-on-sapphire semiconductors<br>silicon-on-sapphire transistors |
| supersonic flight                                   | GS coefficients . diffusion coefficient  | GS electronic equipment   |
| transonic flight                                    | Soret coefficient  | . solid state devices   |
| sonic fatigue                                       | transport properties   | semiconductor devices metal oxide semiconductors                      |
| USE acoustic fatigue                                | . diffusion coefficient  | SOS (semiconductors)  |
| sonic flow  | Soret coefficient RT liquid flow   | transistors   |
| USE transonic flow                                  | thermal diffusion  | silicon transistors   |
| sonic nozzles                                       | sorghum  | SOS (semiconductors) semiconductors (materials)                       |
| RT acoustic nozzles                                 | DEF Any of a number of related cereal  | . metal oxide semiconductors  |
| conical nozzles<br>∞ nozzles                        | grasses with sweet juicy stalks cultivated as  | SOS (semiconductors)  RT ITO (semiconductors)                         |
| ∞ nozzies<br>supersonic nozzles                     | farm crops for grain, fodder, syrup, etc.  GS farm crops                                 | SIS (semiconductors)  |
| transonic flow                                      | grains (food)  | SOI (semiconductors)  |
| transonic nozzles                                   | sorghum  | SOT   |
| sonic soldering                                     | plants (botany)<br>. grasses   | USE solar optical telescope   |
| USE ultrasonic soldering                            | sorghum  | ·   |
| sonic speed   | RT agriculture   | sound USE acoustics   |
| USE acoustic velocity                               | crop identification<br>∞ crops   | OSL acoustics   |
| sonic waveguides                                    | Earth resources  | sound absorption  |
| USE acoustic delay lines                            | sorption   | USE sound transmission  |
| sonobuoys   | DEF The taking up of gas by absorption,  | sound amplification   |
| GS radio equipment                                  | adsorption, chemisorption, or any combination of these processes. Used for cryosorption. | GS amplification  |
| . radio transmitters<br><b>sonobuoys</b>            | UF cryosorption  | . <b>sound amplification</b> RT acoustic attenuation                  |
| sonar   | GS sorption  | acoustic excitation   |
| . <b>sonobuoys</b><br>transmitters                  | . adsorption chemisorption   | acoustics   |
| . radio transmitters                                | RT ∞ absorption  | sound barrier   |
| sonobuoys   | bioavailability  | USE acoustic velocity   |
| RT antisubmarine warfare<br>hydrophones             | chromatography<br>concentrating  |   |
| underwater acoustics                                | extraction   | sound detecting and ranging<br>(added February 1993)                  |
| underwater communication                            | gas chromatography<br>hydrophobicity   | UF acoustic detection   |
| sonochemistry                                       | liquid chromatography  | RT acoustic scattering  |
| (added June 1998)                                   | material absorption  | atmospheric temperature<br>∞ instruments                              |
| USE ultrasonic processing                           | permeating<br>∞ separation   | measuring instruments   |
| sonograms   | sorbates   | meteorological instruments  |
| RT recording instruments                            | sorbents   | meteorology<br>sodar  |
| sound waves<br>whistler recorders                   | surface properties   | temperature measurement   |
| whistlers   | sortie can   | actual detectors  |
| sonoholography                                      | USE sortie systems   | sound detectors USE sound transducers                                 |
| USE acoustical holography                           | sortie lab   |   |
|   | USE sortie systems   | sound fields  |
| sonoluminescence GS emission                        | sortie systems   | DEF Regions containing sound waves.  RT acoustics                     |
| . light emission                                    | UF sortie can  | field theory (physics)  |
| luminescence  | sortie lab   | microsonics   |

| propeller noise   | acoustic velocity   | electroacoustic waves  |
|---|---|--|
| properior rioise  | explosions  | ion acoustic waves   |
| sound fixing and ranging  | flux density  | Lamb waves   |
| DEF A method for acoustically tracking sub-   | loudness  | noise (sound)  |
| merged bodies or floats utilizing fixed hydro-  | noise (sound)   | aircraft noise   |
| phones. Used for SFAR and SOFAR.  | shock waves   | blade slap noise   |
| UF SFAR   | static pressure   | jet aircraft noise   |
| SOFAR   | oldilo procodilo  | propeller noise  |
| RT sound ranging  | sound propagation   | sonic booms  |
| sound transmission  | GS transmission   | engine noise   |
| underwater acoustics  | . wave propagation  | rocket engine noise  |
|   | . acoustic propagation  | flow noise   |
| sound frequencies   | sound propagation   | thermal noise  |
| USE acoustic frequencies  | RT acoustics  | aerodynamic noise  |
|   | attenuation   | blade slap noise   |
| sound generators  | ∞ conduction  | propeller noise  |
| DEF Transducers which convert electrical,   | diffusion   | screech tones  |
| mechanical or other forms of energy into sound.   | noise generators  | RT acoustic coupling   |
| Used for acoustic generators.   | noise propagation   | acoustic frequencies   |
| UF acoustic generators  | shock wave propagation  | acoustic measurement   |
| RT acoustic nozzles   |   | acoustic properties  |
| audio frequencies   | sound ranging   | acoustic streaming   |
| auditory stimuli  | GS rangefinding   | acoustical holography  |
| bells   | . sound ranging   | acoustics  |
| continuous noise  | RT detection  | aeolian tones  |
| ∞ generators  | distance measuring equipment  | audio frequencies  |
| horns   | echo sounding   | auditory perception  |
| loudspeakers  | position (location)   | ∞ blasts   |
| noise generators  | sonar   | deep scattering layers   |
| radiation sources   | sound fixing and ranging  | detonation waves   |
| signal generators   | target acquisition  | diffusion  |
| ∞ signals   | tracking (position)   | longitudinal waves   |
| sirens  | traditing (position)  | loudness   |
| warning systems   | sound transducers   | Mach cones   |
| · .   | UF sound detectors  | magnetoelastic waves   |
| sound holography  | GS transducers  | microsonics  |
| USE acoustical holography   | . sound transducers   | noise pollution  |
|   | electroacoustic transducers   | noise prediction (aircraft)  |
| sound intensity   | hydrophones   | phonons  |
| DEF In a specified direction at a point, the  | loudspeakers  | plane waves  |
| average rate of sound energy transmitted in the   | microphones   | polarized elastic waves  |
| specified direction through a unit area normal to   | RT electroacoustics   | ∞ radiation  |
| this direction at the point considered.   | ∞ radiators   | reverberation  |
| GS acoustic properties  | signal detection  | shock waves  |
| . sound intensity   | signal detectors  | sonograms  |
| zero sound  | underwater acoustics  | surface acoustic wave devices  |
|   |   |  |
| rates (per time)  |   |  |
| rates (per time)<br>. flux density  | underwater acoustics<br>underwater communication  | thermoacoustic effects   |
|   | underwater communication  | thermoacoustic effects ultrasonic radiation  |
| . flux density  | underwater communication sound transmission   | thermoacoustic effects   |
| flux density . sound intensity  | underwater communication  sound transmission  UF sound absorption   | thermoacoustic effects ultrasonic radiation ∞ waves  |
| . flux density sound intensity zero sound   | underwater communication  sound transmission  UF sound absorption  GS transmission  | thermoacoustic effects ultrasonic radiation ∞ waves sounders   |
| . flux density sound intensity zero sound RT auditory stimuli   | underwater communication  sound transmission  UF sound absorption GS transmission . sound transmission  | thermoacoustic effects ultrasonic radiation ∞ waves  |
| . flux density sound intensity zero sound RT auditory stimuli bioacoustics  | underwater communication  sound transmission  UF sound absorption  GS transmission  . sound transmission  RT ∞ absorption   | thermoacoustic effects ultrasonic radiation ∞ waves sounders   |
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| Individual sequence of a sound perception use a point sound perception use a point sound perception use a point sound perception use a point sound perception use a point sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound perception sound measurement use acoustic measurement sound perception use auditory perception sound perception use auditory perception sound perception use auditory perception sound perception sound perception that the perception sound perception that point in the presence of a sound pressure at that point in the presence of a sound perception in the presen | underwater communication  sound transmission  UF sound absorption GS transmission  RT ∞ absorption acoustics attenuation audio frequencies ∞ conduction earphones elastic waves energy absorption monaural signals multipath transmission ∞ paths propeller noise signal transmission sirens sound fixing and ranging telephony thermoclines wave propagation  sound velocity USE acoustic velocity  sound waves  SN (ELASTIC WAVES IN THE AUDIBLE RANGE) DEF Mechanical disturbances advancing with infinite velocity through an elastic medium, and consisting of longitudinal displacements of the medium, i.e., consisting of compressional and rarefactional displacements parallel to the direction of advance of the disturbance; a longi- tudinal wave. Sound waves are small amplitude adiabatic oscillations. Used for acoustic radia-  | thermoacoustic effects ultrasonic radiation  ∞ waves  sounders USE sounding  DEF Any penetration of the natural environment for scientific observation usually by sounding rockets or balloons. Used for sounders.  UF sounders GS sounding . acoustic sounding . balloon sounding . balloon sounding . ionospheric sounding . microwave sounding . rocket sounding . rocket sounding . rocket sounding . satellite sounding RT bathymeters depth measurement . measurement . measurement . measurement . meteorological balloons . meteorological flight . ROBIN balloons . sondes  sounding rockets  DEF Rockets designed primarily for routine upper air observation (as opposed to research) in the lower 250,000 feet of the atmosphere, especially that portion inaccessible to balloons, i.e., above 100,000. Used for meteorological rocket sand rocket sondes.  UF meteorological rockets . rocket sondes . GS rocket vehicles                |
| Individual sequence of a sound perception used to take the sound perception used and perception sound perception tracking (position) sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception to the sound perception used and perception to the sound perception | underwater communication  sound transmission  UF sound absorption GS transmission  . sound transmission  RT ∞ absorption  acoustics  attenuation  audio frequencies  conduction  earphones  elastic waves  energy absorption  monaural signals  multipath transmission  paths  propeller noise  signal transmission  sirens  sound fixing and ranging  telephony  thermoclines  wave propagation  sound velocity  USE acoustic velocity  sound waves  SN (ELASTIC WAVES IN THE AUDIBLE  RANGE)  DEF Mechanical disturbances advancing  with infinite velocity through an elastic medium,  and consisting of longitudinal displacements of  the medium, i.e., consisting of compressional  and rarefactional displacements parallel to the  direction of advance of the disturbance; a longi- tudinal wave. Sound waves are small amplitude  adiabatic oscillations. Used for acoustic radia- tion and acoustic vibrations.                          | thermoacoustic effects ultrasonic radiation  ∞ waves  sounders USE sounding  DEF Any penetration of the natural environment for scientific observation usually by sounding rockets or balloons. Used for sounders.  UF sounders GS sounding  |
| Industry sound intensity Interest sound intensity Interest sound  | underwater communication  sound transmission  UF sound absorption GS transmission  . sound transmission  RT ∞ absorption  acoustics  attenuation  audio frequencies  conduction  earphones  elastic waves  energy absorption  monaural signals  multipath transmission  paths  propeller noise  signal transmission  sirens  sound fixing and ranging  telephony  thermoclines  wave propagation  sound velocity  USE acoustic velocity  sound waves  SN (ELASTIC WAVES IN THE AUDIBLE  RANGE)  DEF Mechanical disturbances advancing  with infinite velocity through an elastic medium,  and consisting of longitudinal displacements of  the medium, i.e., consisting of compressional  and rarefactional displacements parallel to the  direction of advance of the disturbance; a longi-  tudinal wave. Sound waves are small amplitude  adiabatic oscillations. Used for acoustic radia-  tion and acoustic vibrations.  UF acoustic radiation | thermoacoustic effects ultrasonic radiation  ∞ waves  sounders USE sounding  DEF Any penetration of the natural environment for scientific observation usually by sounding rockets or balloons. Used for sounders.  UF sounders GS sounding  . acoustic sounding  . atmospheric sounding  . balloon sounding  . ionospheric sounding  . ionospheric sounding  . rocket sounding  . rocket sounding  . rocket sounding  . ratellite sounding  RT bathymeters depth measurement  meteorological balloons meteorological flight ROBIN balloons sondes  sounding rockets  DEF Rockets designed primarily for routine upper air observation (as opposed to research) in the lower 250,000 feet of the atmosphere, especially that portion inaccessible to balloons, i.e., above 100,000. Used for meteorological rockets and rocket sondes.  UF meteorological rockets rocket sondes GS rocket vehicles  . Sounding rockets  . Aerobee rocket vehicle       |
| Industry sound intensity zero sound  RT auditory stimuli bioacoustics effective perceived noise levels loudness noise intensity noise measurement radiant flux density signal fading signal fading signal fading rate sirens  sound localization  RT auditory perception bearing (direction) binaural hearing detection echo sounding ∞ orientation position indicators range finders sonar space perception tracking (position)  sound measurement USE acoustic measurement  sound perception USE auditory perception sound pressure  DEF At a point, the total instantaneous pressure at that point in the presence of a sound wave minus the static pressure radiation pressure . radiation pressure   | underwater communication  sound transmission  UF sound absorption GS transmission  RT ∞ absorption acoustics attenuation audio frequencies ∞ conduction earphones elastic waves energy absorption monaural signals multipath transmission ∞ paths propeller noise signal transmission sirens sound fixing and ranging telephony thermoclines wave propagation  sound velocity USE acoustic velocity  sound waves SN (ELASTIC WAVES IN THE AUDIBLE RANGE) DEF Mechanical disturbances advancing with infinite velocity through an elastic medium, and consisting of longitudinal displacements of the medium, i.e., consisting of compressional and rarefactional displacements parallel to the direction of advance of the disturbance; a longi- tudinal wave. Sound waves are small amplitude adiabatic oscillations. Used for acoustic radia- tion and acoustic vibrations  UF acoustic radiation acoustic vibrations                             | thermoacoustic effects ultrasonic radiation  ∞ waves  sounders USE sounding  DEF Any penetration of the natural environment for scientific observation usually by sounding rockets or balloons. Used for sounders.  UF sounders GS sounding . acoustic sounding . atmospheric sounding . balloon sounding . ionospheric sounding . microwave sounding . microwave sounding . rocket sounding . satellite sounding RT bathymeters depth measurement ∞ measurement meteorological balloons meteorological flight ROBIN balloons sondes  sounding rockets DEF Rockets designed primarily for routine upper air observation (as opposed to research) in the lower 250,000 feet of the atmosphere, especially that portion inaccessible to balloons, i.e., above 100,000. Used for meteorological rockets and rocket sondes UF meteorological rockets rocket sondes GS rocket vehicles . Sounding rockets . Aerobee rocket vehicle . Antares rocket vehicle |
| Industry sound intensity Interest sound intensity Interest sound  | underwater communication  sound transmission  UF sound absorption GS transmission  . sound transmission  RT ∞ absorption  acoustics  attenuation  audio frequencies  conduction  earphones  elastic waves  energy absorption  monaural signals  multipath transmission  paths  propeller noise  signal transmission  sirens  sound fixing and ranging  telephony  thermoclines  wave propagation  sound velocity  USE acoustic velocity  sound waves  SN (ELASTIC WAVES IN THE AUDIBLE  RANGE)  DEF Mechanical disturbances advancing  with infinite velocity through an elastic medium,  and consisting of longitudinal displacements of  the medium, i.e., consisting of compressional  and rarefactional displacements parallel to the  direction of advance of the disturbance; a longi-  tudinal wave. Sound waves are small amplitude  adiabatic oscillations. Used for acoustic radia-  tion and acoustic vibrations.  UF acoustic radiation | thermoacoustic effects ultrasonic radiation  ∞ waves  sounders USE sounding  DEF Any penetration of the natural environment for scientific observation usually by sounding rockets or balloons. Used for sounders.  UF sounders GS sounding  . acoustic sounding  . atmospheric sounding  . balloon sounding  . ionospheric sounding  . ionospheric sounding  . rocket sounding  . rocket sounding  . rocket sounding  . ratellite sounding  RT bathymeters depth measurement  meteorological balloons meteorological flight ROBIN balloons sondes  sounding rockets  DEF Rockets designed primarily for routine upper air observation (as opposed to research) in the lower 250,000 feet of the atmosphere, especially that portion inaccessible to balloons, i.e., above 100,000. Used for meteorological rockets and rocket sondes.  UF meteorological rockets rocket sondes GS rocket vehicles  . Sounding rockets  . Aerobee rocket vehicle       |

|   | Aries sounding rocket  |   |  |
|---|--|---|--|
|   |  | Guyana  | GS nations   |
|   | Astrobee rocket vehicles   | Magdalena-Cauca Valley (Colombia)   | . Southern Yemen   |
|   | Astrobee 1500 rocket vehicle   | Paraguay  | regions  |
|   | Black Brant sounding rockets   | Peru  | . Southern Yemen   |
|   |  | Surinam   | RT Asia  |
|   | Black Brant 1 sounding rocket  |   | RT ASIA  |
|   | Black Brant 2 sounding rocket  | Trinidad and Tobago   |  |
|   | Black Brant 3 sounding rocket  | Uruguay   | sovereignty  |
|   | Black Brant 4 sounding rocket  | Venezuela   | RT international cooperation   |
|   | Black Brant 5 sounding rocket  | 7011024014  | international law  |
|   |  | South Carolina  |  |
|   | Cajun rocket vehicle   |   | politics   |
|   | Dornier paraglider rocket vehicle  | GS nations  | voting   |
|   | EXOS sounding rocket   | . United States   |  |
|   | Jaguar rocket vehicle  | South Carolina  | Soviet satellites  |
|   |  |   | GS artificial satellites   |
|   | Judi-Dart rocket   | RT Sand Hills Region (GA-NC-SC)   |  |
|   | Kappa rocket vehicles  |   | . Soviet satellites  |
|   | Kappa 8 rocket vehicle   | South Dakota  | Cosmos 782 satellite   |
|   | Kappa 9 rocket vehicle   | GS nations  | Cosmos 936 satellite   |
|   |  | . United States   | Cosmos satellites  |
|   | Lambda rocket vehicles   |   |  |
|   | Loki rocket vehicle  | South Dakota  | Cosmos 2 satellite   |
|   | Petrel sounding rocket   | RT Black Hills (SD-WY)  | Cosmos 3 satellite   |
|   | Phoenix sounding rocket  | Missouri River (US)   | Cosmos 5 satellite   |
|   |  | ()  | Cosmos 6 satellite   |
|   | Skua rocket vehicles   | South Korea   |  |
|   | Skylark rocket vehicle   |   | Cosmos 14 satellite  |
|   | Venus fly trap rocket vehicle  | UF Republic of Korea  | Cosmos 44 satellite  |
|   | Veronique rocket vehicles  | GS nations  | Cosmos 54 satellite  |
|   |  | South Korea   | Cosmos 71 satellite  |
|   | Vertikal rockets   | RT Asia   |  |
|   | WASP sounding rocket   |   | Cosmos 110 satellite   |
| RT  | acoustic sounding  | ∞ Korea   | Cosmos 137 satellite   |
|   | Argo rocket vehicles   | North Korea   | Cosmos 144 satellite   |
|   |  |   | Cosmos 149 satellite   |
|   | ionosondes   | South Vietnam   |  |
|   | Javelin rocket vehicle   |   | Cosmos 166 satellite   |
|   | meteorological instruments   | USE <b>Vietnam</b>  | Cosmos 186 satellite   |
|   |  |   | Cosmos 188 satellite   |
|   | meteorological satellites  | South West Africa   |  |
|   | Nike-Javelin rocket vehicle  | USE Namibia   | Cosmos 206 satellite   |
|   | payload control  | OSL Namibia   | Cosmos 213 satellite   |
|   |  |   | Cosmos 224 satellite   |
|   | radiosondes  | Southeast Asia  |  |
|   | rocket sounding  | GS regions  | Cosmos 225 satellite   |
|   | sondes   | . Southeast Asia  | Cosmos 381 satellite   |
|   | Viking rocket vehicle  |   | Cosmos 954 satellite   |
|   | VIKING TOOKET VEHICLE  | RT Asia   | Cosmos 1129 satellite  |
|   |  | Vietnam   |  |
| sounds  | s (topographic features)   |   | Intercosmos satellites   |
| GS  | sounds (topographic features)  | Southern California   | Granat satellite   |
|   | . Block Island Sound (RI)  |   | Molniya satellites   |
|   |  | GS regions  |  |
|   | . McMurdo sound  | . Southern California   | Prognoz satellites   |
|   | . Prince William Sound (AK)  | RT California   | Proton satellites  |
| RT  | Chesapeake Bay (US)  |   | Proton 1 satellite   |
| 111   |  | Mexico  |  |
|   | inlets (topography)  | Nevada  | Proton 2 satellite   |
|   | oceans   | Pacific Ocean   | Proton 3 satellite   |
|   | rivers   |   | Proton 4 satellite   |
|   |  | United States   | Raduga satellite   |
|   | water  |   |  |
|   |  | Southern Hemisphere   | Sputnik satellites   |
| sound-  | sound interactions   |   |  |
|   |  |   | Sputnik 1 satellite  |
| RT  | harmonics  | GS Southern Hemisphere  | Sputnik 1 satellite  |
| RT  | harmonics  | Antarctic regions   | Sputnik 2 satellite  |
|   | ∞ interactions   |   | Sputnik 2 satellite<br>Sputnik 3 satellite   |
|   |  | . Antarctic regions McMurdo sound   | Sputnik 2 satellite  |
|   | ∞ interactions intermodulation   | Antarctic regions     McMurdo sound     Ross ice shelf  | Sputnik 2 satellite<br>Sputnik 3 satellite<br>Sputnik 4 satellite  |
|   | ∞ interactions   | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite  |
| c   | interactions     intermodulation     wave dispersion   | Antarctic regions     McMurdo sound     Ross ice shelf  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellites  |
| source  | interactions intermodulation wave dispersion programs  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite  |
| source  | interactions     intermodulation     wave dispersion   | <ul> <li>Antarctic regions</li> <li>McMurdo sound</li> <li>Ross ice shelf</li> <li>RT ∞ hemispheres</li> <li>Northern Hemisphere</li> <li>Southern Oscillation</li> </ul>   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellites  |
| source  | <ul> <li>interactions<br/>intermodulation<br/>wave dispersion</li> <li>programs<br/>computer programs</li> </ul>   | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite  |
| source<br>GS  | <ul> <li>interactions intermodulation wave dispersion</li> <li>programs computer programs</li> <li>source programs</li> </ul>  | <ul> <li>Antarctic regions</li> <li>McMurdo sound</li> <li>Ross ice shelf</li> <li>RT ∞ hemispheres</li> <li>Northern Hemisphere</li> <li>Southern Oscillation</li> <li>Southern sky</li> </ul>   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite   |
| source  | <ul> <li>interactions<br/>intermodulation<br/>wave dispersion</li> <li>programs<br/>computer programs</li> </ul>   | <ul> <li>Antarctic regions</li> <li>McMurdo sound</li> <li>Ross ice shelf</li> <li>RT ∞ hemispheres</li> <li>Northern Hemisphere</li> <li>Southern Oscillation</li> </ul>   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite  |
| <b>source</b><br>GS<br>RT   | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)   | <ul> <li>Antarctic regions</li> <li>McMurdo sound</li> <li>Ross ice shelf</li> <li>RT ∞ hemispheres</li> <li>Northern Hemisphere</li> <li>Southern Oscillation</li> <li>Southern sky</li> </ul>   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite   |
| source<br>GS  | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)   | Antarctic regions   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite  |
| <b>source</b><br>GS<br>RT   | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)   | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern Sky  Southern Oscillation GS oscillations . Southern Oscillation  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite  |
| source<br>GS<br>RT<br>∞ source                                      | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)   | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 8 satellite  |
| source<br>GS<br>RT<br>∞ source                                      | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss (USE OF A MORE SPECIFIC TERM IS   | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern Sky  Southern Oscillation GS oscillations . Southern Oscillation  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 9 satellite   |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   | . Antarctic regions . McMurdo sound . Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 9 satellite   |
| source<br>GS<br>RT<br>∞ source                                      | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 8 satellite Venera 9 satellite Venera 9 satellite Venera 10 satellite   |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) causes derivation  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 8 satellite Venera 9 satellite Venera 9 satellite Venera 10 satellite Venera 11 satellite   |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 9 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite  |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs open source licensing (computers)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 8 satellite Venera 9 satellite Venera 9 satellite Venera 10 satellite Venera 11 satellite   |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Sputnik 5 satellite Venera satellites Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 9 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite  |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources ion sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation periodic variations  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 8 satellite Venera 10 satellite Venera 11 satellite Venera 11 satellite Venera 12 satellite Venera 12 satellite   |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern Sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation periodic variations pressure oscillations  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite Venera 12 satellite RT Russian Space Program  Soviet spacecraft  |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources ion sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation periodic variations  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite  |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources ion sources radiation sources radiation sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation periodic variations pressure oscillations quasi-biennial oscillation   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 8 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite Venera 12 satellite RT Russian Space Program  Soviet spacecraft  |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources ion sources nonpoint sources radiation sources radiation sources radio sources (astronomy)   | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern Sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation periodic variations pressure oscillations  | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 6 satellite Venera 7 satellite Venera 7 satellite Venera 9 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite RT Russian Space Program  Soviet spacecraft GS Soviet spacecraft Buran space shuttle  |
| source<br>GS<br>RT<br>∞ source<br>SN                                | interactions intermodulation wave dispersion  programs computer programs . source programs open source licensing (computers)  ss  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) causes derivation electron sources extragalactic radio sources ion sources radiation sources radiation sources  | . Antarctic regions McMurdo sound Ross ice shelf RT ∞ hemispheres Northern Hemisphere Southern Oscillation Southern Sky  Southern Oscillation GS oscillations . Southern Oscillation RT anomalies atmospheric circulation atmospheric pressure climate el Nino Madden-Julian Oscillation periodic variations pressure oscillations quasi-biennial oscillation Southern Hemisphere   | Sputnik 2 satellite Sputnik 3 satellite Sputnik 4 satellite Sputnik 5 satellite Venera satellite Venera 2 satellite Venera 3 satellite Venera 4 satellite Venera 5 satellite Venera 7 satellite Venera 8 satellite Venera 8 satellite Venera 10 satellite Venera 10 satellite Venera 10 satellite Venera 11 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite Venera 12 satellite  |
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. Mars 4 Spacecraft weightlessness static electricity Mars 5 spacecraft Mars 6 spacecraft space colonies Space Arrow satellite . Mars 7 spacecraft GS communities USE Cosmos 149 satellite space colonies . Mir space station Salyut space station space bases space based radar Soyuz spacecraft space colonies DEF Radar systems installed on large . Sputnik satellites lunar bases space structures. Sputnik 1 satellite lunar shelters GS radar Sputnik 2 satellite Mars bases . space based radar Sputnik 3 satellite Mars exploration Shuttle Imaging Radar space habitats Sputnik 4 satellite airborne radar Sputnik 5 satellite space stations antenna arrays terraforming . Venera satellites radiation effects Venera 2 satellite radiation shielding space commercialization Venera 3 satellite Venera 4 satellite DEF For profit activities in space or prefaspace bases Venera 5 satellite tory to space activity. GS space bases GS commercialization Venera 6 satellite . lunar bases . space commercialization Venera 7 satellite planetary bases RT aerospace industry . . Venera 8 satellite . space colonies Ariane 4 launch vehicle Venera 9 satellite . Mars bases Ariane 5 launch vehicle Venera 10 satellite RT ∞ bases commerce lab Venera 11 satellite Mir space station commercial spacecraft Venera 12 satellite Salyut space station communication satellites . Zond space probes space stations data products . Zond 1 space probe stations direct broadcast satellites Zond 2 space probe Energiya launch vehicle Zond 3 space probe space biology insurance (contracts) Zond 4 space probe lunar mining Zond 5 space probe USE exobiology ∞ microgravity applications Proton launch vehicle Zond 6 space probe Zond 7 space probe space buses space industrialization Zond 8 space probe USE ferry spacecraft space manufacturing Phobos spacecraft space processing Russian Space Program space capsules space tourism ∞ spacecraft DEF Containers used for carrying out exspacecraft launching periments in space. Used for capsules (spacetechnology transfer craft). Soviet Union ÚF capsules (spacecraft) space communication DEF The act of, or USE U.S.S.R. GS space capsules The act of, or methods for, conveying Discoverer recovery capsules information to, from, or through outer space. soybeans escape capsules telecommunication GS farm crops . Mercury spacecraft . space communication . . Aurora 7 . leguminous plants . . extraterrestrial communication . soybeans Faith 7 . . interplanetary communication plants (botany) . . Friendship 7 . . lunar communication . leguminous plants SIGMA 7 . . . circumlunar communication soybeans artificial satellites . . spacecraft communication  $RT \infty food$ biosatellites ... reentry communication cabin atmospheres . . satellite communication ∞ capsules Soyuz spacecraft communication satellites cockpits Defense Communications Satellite GS manned spacecraft Gemini spacecraft System Soyuz spacecraft interplanetary spacecraft extraterrestrial intelligence Soviet spacecraft landing modules Soyuz spacecraft free-space optical communication lunar spacecraft Apollo Soyuz test project furlable antennas manned spacecraft Assured Crew Return Vehicle interstellar communication Mercury flights Kvant modules recoverable spacecraft Salvut space station line of sight communication reentry vehicles manned space flight U.S.S.R. space program rendezvous spacecraft optical communication soft landing spacecraft pulse communication ∞ spacecraft space radio communication (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) spacecraft cabins SN radio telemetry spacecraft modules television systems unmanned spacecraft wireless communication algebra voskhod manned spacecraft analysis (mathematics) Vostok spacecraft space cooling (buildings)

DEF The cooling of buildings with a solar Cartan space cislunar space energy system which incorporates water chillers deep space The electric charge carries by a cloud controlled by thermostats and other devices to fractals or stream of electrons or ions in a vacuum or a provide a comfortable living environment. function space region of low gas pressure when the charge is GS cooling hyperspaces sufficient to produce local changes in the poten-. space cooling (buildings) set theory tial distribution. The net electric charge within a cooling systems energy technology spatial dependencies given volume. GS electric charge heat exchangers heat pumps liquid cooling space adaptation syndrome space charge aerospace medicine bunching bioastronautics Child-Langmuir law residential energy biological effects electric discharges solar collectors long duration space flight electron clouds solar cooling manned space flight Landau damping solar energy conversion motion sickness magnetohydrodynamics temperature control physiological effects nonohmic effect

orbitrons

perveance

plasmas (physics)

space debris

debris
. space debris

GS

psychological effects

space flight stress

space psychology

| RT       | asteroid belts  | virtual reality                               |    | Apollo 10 flight                                      |
|----------|---|---|----|---|
|          | asteroids   | space environmental lubrication               |    | Apollo 11 flight                                      |
|          | Chiron cosmic dust  | USE spacecraft lubrication                    |    | Apollo 12 flight                                      |
|          | dust  | 002 <b>0pa000</b> :a:: tab::0ai:0::           |    | Apollo 13 flight                                      |
|          | meteoroids  | space erectable structures                    |    | Apollo 14 flight<br>Apollo 15 flight                  |
|          | micrometeoroids   | GS space erectable structures                 |    | Apollo 13 flight                                      |
|          | near Earth objects  | . inflatable spacecraft                       |    | Apollo 17 flight                                      |
| 0        | ∘ spacecraft  | Beacon satellites                             |    | Gemini flights  |
|          | spacecraft breakup  | Beacon Explorer A Explorer 22 satellite       |    | Gemini 3 flight                                       |
|          | spacecraft design Toro asteroid   | RT expandable structures                      |    | Gemini 4 flight                                       |
|          | Vesta asteroid  | folding structures                            |    | Gemini 5 flight                                       |
|          | roota actorota  | inflatable space structures                   |    | Gemini 6 flight                                       |
| space o  | density   | inflatable structures                         |    | Gemini 7 flight                                       |
| GS       | density (mass/volume)   | Large Deployable Reflector                    |    | Gemini 8 flight                                       |
|          | space density   | large space structures                        |    | Gemini 9 flight<br>Gemini 10 flight                   |
|          | density (number/volume)   | maypole antennas<br>orbital assembly          |    | Gemini 11 flight                                      |
| RT       | . space density   | rigid structures                              |    | Gemini 12 flight                                      |
| IXI      | atmospheric density electron density (concentration)  | self erecting devices                         |    | manned reentry  |
|          | ion density (concentration)   | space station modules                         |    | Mercury flights                                       |
|          | particle density (concentration)  | space station structures                      |    | Mercury MA-1 flight                                   |
|          | plasma density  | space technology experiments                  |    | Mercury MA-2 flight                                   |
|          | plasma interaction experiment   | spacecraft modules                            |    | Mercury MA-3 flight Mercury MA-4 flight               |
|          | proton density (concentration)  | spacecraft structures<br>∞ structures         |    | Mercury MA-5 flight                                   |
|          | torong a constraint to a constraint   | ∞ structures                                  |    | Mercury MA-6 flight                                   |
|          | detection and tracking system   | Space Exper with Particle Accelerators        |    | Mercury MA-7 flight                                   |
| UF<br>GS | SPADATS (tracking system) networks  | USE SEPAC (payload)                           |    | Mercury MA-8 flight                                   |
| GS       | tracking networks   | ,   |    | Mercury MA-9 flight                                   |
|          | space detection and tracking  | space exploration                             |    | Mercury MR-1 flight                                   |
|          | system  | UF planetary exploration                      |    | Mercury MR-2 flight                                   |
|          | tracking (position)   | GS exploration                                |    | Mercury MR-3 flight                                   |
|          | space detection and tracking  | . space exploration lunar exploration         |    | Mercury MR-4 flight Space Shuttle missions            |
|          | system  | Mars exploration                              |    | Space Shuttle missions 31-A                           |
| RT       | minitrack system  | RT aerospace environments                     |    | Space Shuttle mission 31-B                            |
|          | missile tracking  | asteroid missions                             |    | Space Shuttle mission 31-C                            |
|          | optical tracking photographic tracking  | astrodynamics                                 |    | Space Shuttle mission 31-D                            |
|          | polystation doppler tracking system   | ∞ astronautics                                |    | Space Shuttle mission 41-A                            |
|          | spacecraft tracking   | bioastronautics                               |    | Space Shuttle mission 41-B                            |
|          | STDN (network)  | Cassini mission                               |    | Space Shuttle mission 41-C                            |
| ۰        | ∘ systems   | Constellation program                         |    | Space Shuttle mission 41-D                            |
|          | tracking stations   | extraterrestrial environments                 |    | Space Shuttle mission 41-G Space Shuttle mission 51-A |
|          |   | extraterrestrial resources                    |    | Space Shuttle mission 51-A                            |
| space o  |   | French space program International Space Year |    | Space Shuttle mission 51-C                            |
| USE      | reception diversity   | interplanetary flight                         |    | Space Shuttle mission 51-D                            |
|          | de la Companya de la | interplanetary spacecraft                     |    | Space Shuttle mission 51-E                            |
|          | electric rocket tests   | interstellar spacecraft                       |    | Space Shuttle mission 51-F                            |
| UF<br>GS | SERT (rocket tests) engine tests  | Jupiter rings                                 |    | Space Shuttle mission 51-G                            |
| GS       | . space electric rocket tests   | Magellan project (NASA)                       |    | Space Shuttle mission 51-H                            |
| RT       | electric rocket engines   | manned Mars missions                          |    | Space Shuttle mission 51-I                            |
|          | flight tests  | manned space flight                           |    | Space Shuttle mission 51-J Space Shuttle mission 51-L |
|          | ground tests  | Mars 69 project<br>Mars 71 project            |    | Space Shuttle mission 51-L                            |
|          | SERT 1 spacecraft   | Mars sample return missions                   |    | Space Shuttle mission 61-B                            |
|          | SERT 2 spacecraft   | MESSENGER (spacecraft)                        |    | Space Shuttle mission 61-C                            |
| ۰        | ∘ tests   | New Horizons mission                          |    | Space Shuttle mission 61-E                            |
|          |   | planetary aerial vehicles                     |    | . return to Earth space flight                        |
|          | elevators   | planetary bases                               | RT | aerospace environments                                |
|          | ed March 2005)  | planetary composition                         |    | Apollo Soyuz test project                             |
|          | Elevators designed to provide access e from ground or low altitude.   | planetary geology                             |    | ascent propulsion systems                             |
|          | elevators (lifts)   | sample return missions                        |    | astrodynamics   |
|          | . space elevators   | Solar Maximum Mission-A<br>TOPS (spacecraft)  | •  | astronautics     atmospheric entry                    |
| RT       | space transportation  | Viking 1 spacecraft                           |    | auxiliary propulsion                                  |
|          |   | Viking 2 spacecraft                           |    | bioastronautics                                       |
| space e  | environment   | Viking lander 1                               |    | celestial bodies                                      |
| USE      | aerospace environments  | Viking lander 2                               |    | expeditions   |
|          |   | Viking lander spacecraft                      |    | exploration   |
|          | environment simulation  | Viking Mars program                           |    | extravehicular activity                               |
| GS       | simulation  | Viking orbiter 1                              |    | ∞ flight  |
|          | . environment simulation  | Viking orbiter 2                              |    | flight mechanics                                      |
|          | space environment simulation weightlessness simulation  | Viking orbiter spacecraft                     |    | flight optimization flight simulation                 |
|          | neutral buoyancy simulation   | space flight                                  |    | flyby missions  |
| RT       | altitude simulation   | GS space flight                               |    | Grand Tours   |
|          | atmospheric entry simulation  | . interplanetary flight                       |    | Mariner Jupiter-Saturn flyby                          |
|          | clinorotation   | . interstellar travel                         |    | Mariner Jupiter-Uranus flyby                          |
|          | clinostats  | . long duration space flight                  |    | meteorological flight                                 |
|          | flight simulation   | . lunar flight                                |    | ∞ missions  |
|          | flight simulators   | . manned space flight                         |    | orbits  |
|          | High Vacuum Orbital Simulator   | Apollo flights                                |    | Physics and Chemistry Experiment in                   |
|          | Langley complex coordinator   | Apollo 5 flight                               |    | Space   |
|          | motion simulators solar simulation  | Apollo 6 flight<br>Apollo 7 flight            |    | pointing control systems propulsion                   |
|          | thermal simulation  | Apollo 7 flight                               |    | reentry   |
|          | vacuum chambers   | Apollo 9 flight                               |    | rocket flight   |
|          |   |   |    |   |

| 0       | o rockets                           |         | terraforming                                 |       | ∞ spacecraft                     |
|---------|-------------------------------------|---------|--|-------|----------------------------------|
|         | solar sails                         |         |  |       |                                  |
|         | Space Transportation System flights | space I | neating (buildings)                          | space | law                              |
|         | spacecraft guidance                 |         | Heating of living areas for the comfort      | GS    | law (jurisprudence)              |
|         | spacecraft maneuvers                |         | pants (human and/ or animal) by any          |       | . international law              |
|         | spacecraft propulsion               |         | (electricity, fuels, solar radiation, etc.). |       | space law                        |
|         | suborbital flight                   |         |  | RT    | •                                |
|         | trajectories                        | GS      | heating                                      | IXI   | direct broadcast satellites      |
|         | Viking 1 spacecraft                 | DT      | . space heating (buildings)                  |       |                                  |
|         | · ·                                 | RT      | 3  |       | insurance (contracts)            |
|         | Viking 2 spacecraft                 |         | environmental engineering                    |       | outer space treaty               |
|         | Viking lander 1                     |         | heating equipment                            |       | planetary protection             |
|         | Viking lander 2                     |         | residential energy                           |       | sabotage                         |
|         | Viking lander spacecraft            |         | solar atriums                                |       |                                  |
|         | Viking orbiter 1                    |         | solar heating                                | space | logistics                        |
|         | Viking orbiter 2                    |         | solar houses                                 | GS    | logistics                        |
|         | Viking orbiter spacecraft           |         | temperature control                          |       | . space logistics                |
|         |                                     |         | waste energy utilization                     | RT    | . •                              |
| snace f | light feeding                       |         | madio diforgy dimediation                    |       | consumables (spacecraft)         |
| RT      | consumables (spacecrew supplies)    | anaaa i | ndustrialization                             |       | consumables (spacecrew supplies) |
| IXI     | dehydrated food                     |         | ndustrialization                             |       | extraterrestrial resources       |
|         | •                                   | GS      | space industrialization                      |       | manned space flight              |
|         | diets                               |         | . space manufacturing                        |       |                                  |
|         | eating                              |         | space processing                             |       | spacecraft cabin simulators      |
| 0       | o food                              |         | . space tourism                              |       | spacecrew transfer               |
|         | food intake                         | RT      | commercial spacecraft                        |       | stowage (onboard equipment)      |
|         | food production (in space)          |         | economic development                         |       |                                  |
|         | life support systems                |         | energy conversion                            | space | maintenance                      |
|         | nutrition                           |         | industries                                   | GS    | maintenance                      |
|         | nutritional requirements            |         | lunar mining                                 |       | . space maintenance              |
|         | waste disposal                      |         | manufacturing                                | RT    | astronaut training               |
|         |                                     | 0       | o processes                                  |       | ∞ astronautics                   |
| cnace f | light etrose                        |         | product development                          |       | extravehicular activity          |
|         | light stress                        |         |  |       | orbital workers                  |
| GS      | stress (biology)                    |         | products                                     |       |                                  |
|         | . flight stress (biology)           |         | research facilities                          |       | payload transfer                 |
|         | space flight stress                 |         | space commercialization                      |       | remote manipulator system        |
| RT      | boredom                             |         |  |       | Space Station Mobile Servicing   |
| 0       | ∘ flight stress                     | Space I | nfrared Telescope Facility                   |       | System                           |
|         | gravitational physiology            | UF      | SIRTF  |       |                                  |
|         | gravity perception                  |         | Spitzer Space Telescope                      | space | manufacturing                    |
|         | lower body negative pressure        | GS      | artificial satellites                        | GS    | fabrication                      |
|         | manned space flight                 | -       | . scientific satellites                      |       | . space manufacturing            |
|         | space adaptation syndrome           |         | astronomical satellites                      |       | manufacturing                    |
|         | space psychology                    |         |  |       | . space manufacturing            |
|         |                                     |         | Space Infrared Telescope                     |       | space industrialization          |
|         | stress (physiology)                 |         | Facility                                     |       | . space manufacturing            |
|         | stress (psychology)                 |         | observatories                                | DT    |                                  |
|         | weightlessness                      |         | . astronomical observatories                 | RT    |                                  |
|         |                                     |         | astronomical satellites                      |       | assembling                       |
| Space I | Flight Tracking and Data Network    |         | Space Infrared Telescope                     |       | commercial spacecraft            |
|         | networks                            |         | Facility                                     |       | construction                     |
| -       | . tracking networks                 |         | telescopes                                   |       | high vacuum                      |
|         | Space Flight Tracking and Data      |         | . infrared telescopes                        |       | industries                       |
|         | Network                             |         | Space Infrared Telescope                     |       | levitation melting               |
| рт      |                                     |         | Facility                                     |       | liquid bridges                   |
| KI °    | o data                              |         | . spaceborne telescopes                      |       | low gravity manufacturing        |
|         | data acquisition                    |         |  |       | ∞ microgravity applications      |
|         | Global Tracking Network             |         | . Space Infrared Telescope                   |       | space commercialization          |
|         | ground stations                     | ОТ      | Facility                                     |       | space processing                 |
|         | satellite tracking                  | RT      | infrared astronomy                           |       |                                  |
|         | stations                            |         | spaceborne astronomy                         |       | spaceborne experiments           |
|         | STDN (network)                      |         |  |       | technologies                     |
|         | tracking stations                   | space I | aboratories                                  |       | vacuum effects                   |
|         | •                                   | GS      | laboratories                                 |       | weightlessness                   |
|         | liebt training                      |         | . space laboratories                         |       |                                  |
|         | light training                      |         | . Advanced Technology Laboratory             | space | mechanics                        |
| GS      | education                           |         | Atmospheric Cloud Physics Lab                | GS    | classical mechanics              |
|         | . flight training                   |         | (Spacelab)                                   |       | . space mechanics                |
|         | . space flight training             |         |  |       | astrodynamics                    |
|         | astronaut training                  |         | Earth Viewing Applications                   |       | celestial mechanics              |
| RT      | pilot training                      |         | Laboratory                                   |       | orbital mechanics                |
|         | spacecraft cabin simulators         |         | Long Duration Exposure Facility              |       | Kepler laws                      |
|         | training simulators                 |         | manned orbital laboratories                  |       |                                  |
|         | · ·                                 |         | Columbus module                              |       | minimum variance orbit           |
| space q | didors                              |         | Destiny Laboratory Module                    |       | determination                    |
|         |                                     |         | Skylab 1                                     | RT    | 0                                |
| USE     | lifting reentry vehicles            |         | Skylab 2                                     |       | magnetohydrodynamics             |
|         |                                     |         | Skylab 3                                     |       | orbital space tests              |
| space g | glossaries                          |         | Skylab 4                                     |       | quadratures                      |
| RT      | bibliographies                      |         | Spacelab                                     |       | ·                                |
|         | dictionaries                        | DT .    |  | snace | medicine                         |
|         | documentation                       | K1 ∘    | aerospace sciences     artificial satellites | USE   |                                  |
|         | indexes (documentation)             |         | artificial satellites                        | UUL   | as copace medicine               |
|         | information retrieval               |         | geophysical satellites                       |       |                                  |
|         |                                     |         | lunar laboratories                           |       | missions                         |
|         | thesauri                            |         | Mir space station                            | GS    | •                                |
|         |                                     |         | orbital workshops                            |       | . Cassini mission                |
| space h | nabitats                            |         | research facilities                          |       | . Cluster Mission                |
| RT      | aerospace environments              |         | research vehicles                            |       | . flyby missions                 |
|         | closed ecological systems           |         | SAIL project                                 |       | Giotto mission                   |
|         | life support systems                |         | Salyut space station                         |       | Grand Tours                      |
|         | Mars bases                          |         | sortie systems                               |       | Mariner Jupiter-Saturn flyby     |
|         | space colonies                      |         | Space Station Freedom                        |       | Mariner Jupiter-Saturi hyby      |
|         |                                     |         |  |       |                                  |
|         | space stations                      |         | space stations                               |       | Voyager 1977 mission             |
|         | spacecrews                          |         | spaceborne experiments                       |       | Comet Nucleus Tour               |

. . Comet Rendezvous Asteroid Flyby observation scheduling magnetic field reconnection Mission radio observation magnetohydrodynamic stability Deep Impact Mission reconnaissance magnetohydrodynamics . Mariner Venus-Mercury 1973 seeing (astronomy) **OPEN Project** . . Mariner-Mercury 1973 space surveillance (ground based) plasma density . . Near Earth Asteroid Rendezvous plasma diagnostics Space Operations Center (NASA) Mission plasma interactions DEF A proposed NASA space station to be assembled in space that is designed for con-. . New Horizons mission plasma layers . . Stardust Mission plasma physics . SOHO Mission ducting space based operations such as satelplasma waves lite servicing, orbit transfer vehicle launch and recovery, and assembly of large space struc-. Solar Maximum Mission plasma-electromagnetic interaction . . Solar Maximum Mission-A polar cusps . asteroid missions tures. Onboard capabilities could include space Polar/GGS spacecraft manufacturing and research experiments. When Starprobe mission space weather . Ulysses mission fully assembled it will be larger in size than the SPHINX . . Comet Rendezvous Asteroid Flyby Space Shuttle. wave-particle interactions Mission artificial satellites Wind/GGS spacecraft . . Near Earth Asteroid Rendezvous . space stations . Space Operations Center (NASA) Mission manned spacecraft Gimbal-mounted platforms equipped . Rosetta mission Space Operations Center (NASA) with gyros and accelerometers for maintaining a . Deep Space 1 Mission desired orientation in inertial space independent stations . Genesis mission of spacecraft motion. . space stations . Mars missions . . 2001 Mars Odyssey . . manned Mars missions Space Operations Center (NASA) space platforms . Columbus space station large space structures orbital assembly Eureca (ESA) Mars sample return missions orbital servicing . Long Duration Exposure Facility . Mars Surveyor 2001 Mission . man tended free flyers . sample return missions ∞ space orientation space station polar platforms . Mars sample return missions (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) attitude (inclination) . synchronous platforms Earth Observing System (EOS) Stardust Mission Apollo Soyuz test project intraorbit transfer vehicles Chinese space program orbital servicing Earth-Venus trajectories bearing (direction) ∞ platforms European space programs vertical perception shape control French space program visual perception Space Station Freedom Indian space program space stations Japanese space program space perception Magellan project (NASA) DEF The ability to estimate depth or disspace power reactors MESSENGER (spacecraft) tance between points in the field of vision. Used GS auxiliary power sources ∞ missions for depth perception, distance perception, form . nuclear auxiliary power units Skylab 1 perception, and slant perception. .. space power reactors
... fission electric cells Skylab 2 depth perception Skylab 3 distance perception . SNAP 2 form perception Skylab 4 .... SNAP 4 slant perception space programs SNAP 8 perception Space Shuttle missions SNAP 10A ∞ spacecraft . sensory perception SNAP 50 STEREO (observatory) . . visual perception space power unit reactors ... space perception TOPS (spacecraft) nuclear electric power generation . . . autokinesis . nuclear auxiliary power units binocular vision space navigation . space power reactors monocular vision navigation GS ... fission electric cells peripheral vision . space navigation .... SNAP 2 range finders . interplanetary navigation .... SNAP 4 sound localization air navigation .... SNAP 8 visual fields astrodynamics SNAP 10A ∞ astronautics SNAP 50 space photography astronavigation space power unit reactors spaceborne photography autonomous navigation celestial navigation . nuclear power reactors space plasma H/V interaction experiments .. space power reactors digital navigation USE SPHINX . . . fission electric cells Earth-Venus trajectories SNAP 2 formation flying space plasmas SNAP 4 Global Positioning System DEF Concentrations of free electrons and .... SNAP 8 inertial navigation .... SNAP 10A protons in the ionosphere, plasmasphere, and interplanetary flight beyond. SNAP 50 interplanetary trajectories GS particles . . space power unit reactors manned spacecraft . charged particles nuclear reactors orbit determination . . energetic particles . nuclear power reactors orbital maneuvers . . . plasmas (physics) .. space power reactors orbital mechanics . . . . space plasmas . . . fission electric cells orbits . . . . . solar wind SNAP 2 radar navigation .... SNAP 4 . . . . stellar winds radio navigation . corpuscular radiation SNAP 8 reference stars . . energetic particles .... SNAP 10A satellite guidance . . . plasmas (physics) SNAP 50 satellite navigation systems .... space plasmas . . space power unit reactors spacecraft guidance . . . . . solar wind heat exchangers spacecraft position indicators space station power supplies . . stellar winds standardized space guidance AMPTE (satellites) turbogenerators

Cluster Mission

dusty plasmas

galactic winds

geomagnetism IMAGE satellite

ionopause

CRRES (satellite)

Earth magnetosphere

flux transfer events

space observations (from Earth)

nomena from the Earth's surface.

asteroid detection

observation

detection

GS

DEF Surveillance of extraterrestrial phe-

astronomical interferometry

. space observations (from Earth)

auxiliary power sources

space power unit reactors
UF SPUR (reactors)

. nuclear auxiliary power units . . space power reactors .. space power unit reactors nuclear electric power generation . nuclear auxiliary power units

. . space power reactors ... Mars 5 spacecraft Deep Impact Mission space power unit reactors interplanetary spacecraft Mars 6 spacecraft . nuclear power reactors magnetic probes Mars 7 spacecraft . . space power reactors maneuverable spacecraft Mars Observer ... space power unit reactors Mariner program Mars Pathfinder nuclear reactors meteorological satellites Viking 1975 entry vehicle . nuclear power reactors Pioneer project Viking spacecraft . . space power reactors Pioneer Venus 1 spacecraft . . Viking 1 spacecraft space power unit reactors Pioneer Venus spacecraft Viking lander 1 fission electric cells ∞ probes Viking orbiter 1 heat exchangers radio occultation . . . Viking 2 spacecraft SNAP satellite television Viking lander 2 SNAP 2 Voyager 1977 mission Viking orbiter 2 SNAP 4 Voyager project Viking lander spacecraft SNAP 8 Viking lander 1 space processing SNAP 50 Viking lander 2 turbogenerators DEF Synthesis, processing, forming, and Viking orbiter spacecraft fabrication of compounds or materials in space Viking orbiter 1 or in a simulated space environment; normally space probes Viking orbiter 2 involving techniques that exploit low-gravity or . . Viking orbiter 1975 Mars Climate Orbiter unmanned spacecraft GS high-vacuum conditions. space probes space industrialization Explorer 18 satellite Mars Express space processing Mars Global Surveyor . . Giotto mission acoustic levitation Jupiter probes Mars Polar Lander bioprocessing . Galileo probe Mars Reconnaissance Orbiter Nozomi Mars Orbiter commercial spacecraft Galileo spacecraft containerless melts Phobos spacecraft . . lunar probes crystal growth Phoenix Mars Lander Lunik lunar probes diamond films Lunik 2 lunar probe Zond 2 space probe electric furnaces Pioneer space probes Lunik 3 lunar probe float zones Pioneer 1 space probe Lunik 9 lunar probe levitation melting Pioneer 2 space probe liquid bridges Lunik 10 lunar probe Lunik 11 lunar probe Pioneer 3 space probe low gravity manufacturing Lunik 12 lunar probe Pioneer 4 space probe Marangoni convection metalorganic chemical vapor deposition Lunik 13 lunar probe Pioneer 5 space probe Lunik 14 lunar probe Pioneer 6 space probe Lunik 16 lunar probe Pioneer 7 space probe microgravity Lunik 17 lunar probe Pioneer 8 space probe microgravity applications Lunik 19 lunar probe Pioneer 9 space probe miscibility gap Lunik 20 lunar probe Pioneer 10 space probe orbital workshops Lunik 22 lunar probe Pioneer 11 space probe protein crystal growth Ranger lunar probes Pioneer Venus 2 entry probes single crystals Ranger 1 lunar probe . Pioneer Venus 2 night probe space commercialization Ranger 2 lunar probe . . . Pioneer Venus 2 sounder probe space manufacturing Ranger 3 lunar probe solar probes spaceborne experiments Ranger 4 lunar probe . . . Helios 1 thermocapillary migration Ranger 5 lunar probe Helios 2 ultrapure metals Ranger 6 lunar probe Helios A Ranger 7 lunar probe Helios B Space Processing Applications Rocket Ranger 8 lunar probe Starprobe spacecraft DFF Sounding rocket used for space pro-Ranger 9 lunar probe Sunblazer space probe cessing experiments by NASA. Used for SPAR Ranger lunar landing vehicles . . Venus probes (rocket). Surveyor lunar probes Magellan spacecraft (NASA) SPAR (rocket) UF Surveyor 1 lunar probe Mariner 1 space probe RT launch vehicles Surveyor 2 lunar probe Surveyor 3 lunar probe Mariner 2 space probe metal foams Mariner 5 space probe payloads Surveyor 4 lunar probe Surveyor 5 lunar probe Mariner 10 space probe rocket vehicles Pioneer Venus 2 spacecraft weightlessness Pioneer Venus 2 entry probes
. Pioneer Venus 2 night probe Surveyor 6 lunar probe Surveyor 7 lunar probe space programs Mariner space probes
. Mariner 1 space probe . . . . Pioneer Venus 2 sounder GS programs probe
. . . . Pioneer Venus 2 transporter bus
. . . Venera satellites . space programs Mariner 2 space probe . . Argentine space program Australian space program Mariner 3 space probe Mariner 4 space probe Venera 2 satellite Brazilian space program Mariner 5 space probe Venera 3 satellite Canadian space program Mariner 6 space probe Venera 4 satellite Alouette project Mariner 7 space probe Venera 5 satellite Chinese space program . Mariner 8 space probe Venera 6 satellite . . European space programs Mariner 9 space probe Venera 7 satellite Austrian space program Mariner 10 space probe Venera 8 satellite Belgian space program Mariner 11 space probe Venera 9 satellite Czechoslovakian space program Mariner R 2 space probe Venera 10 satellite Danish space program Mariner spacecraft Venera 11 satellite Finnish space program . . . Mariner C spacecraft Venera 12 satellite French space program Mariner Venus 67 spacecraft Zond 1 space probe German space program . . Mars probes Zond 3 space probe Greek space program ... Advanced Reconn Electric Zond 4 space probe Hungarian space program Zond 5 space probe Icelandic space program Spacecraft Zond 6 space probe Zond 7 space probe . . . Mariner 3 space probe Italian space program . . . Mariner 4 space probe Luxembourg space program Netherlands space program Mariner 6 space probe Zond 8 space probe . Mariner 7 space probe Huygens probe Norwegian space program Mariner 8 space probe MESSENGER (spacecraft) Portuguese space program . . . Mariner 9 space probe . . Microwave Anisotropy Probe Spanish space program . . . Mars 1 spacecraft . . . Mars 2 spacecraft . . . Mars 3 spacecraft Voyager 1 spacecraft Swedish space program .. Voyager 2 spacecraft
Atlas Able 5 launch vehicle Swiss space program
Turkish space program

Cassini mission

. . . UK space program

... Mars 4 Spacecraft

. . geographic applications program stress (psychology) . Space Shuttle mission 31-A Indian space program Columbia (Orbiter) space radiation . . Indonesian space program USE extraterrestrial radiation Space Shuttle mission 31-B . . Israeli space program space flight Japanese space program space radiators . manned space flight Mexican space program USE spacecraft radiators Space Shuttle missions NASA space programs Space Shuttle mission 31-B ... Apollo applications program space rations Challenger (Orbiter) Apollo project consumables (spacecrew supplies) ... Bioastronautical Orbital Space space rations System Space Shuttle mission 31-C rations . . . Centaur project Space Shuttle Orbital Flight 7 space rations . . . Earth & Ocean Physics space flight  $RT \, \infty \, food$ Applications Program . manned space flight food production (in space) ... Earth Resources Program . . Space Shuttle missions provisioning . . . Earth Resources Survey Space Shuttle mission 31-C stowage (onboard equipment) Program Challenger (Orbiter) . . . . SEASAT program space rendezvous . . . Echo project Space Shuttle mission 31-D
UF Space Shuttle Orbital Flight 8 HE spacecraft rendezvous . . . Galileo project GS rendezvous . Gemini project space flight . space rendezvous . . . Helios Project . manned space flight . . orbital rendezvous Jupiter project . . Space Shuttle missions Earth orbital rendezvous . . . Magellan project (NASA) ... Space Shuttle mission 31-D Challenger (Orbiter) lunar orbital rendezvous Mariner program Apollo Soyuz test project . . Mariner Venus-Mercury 1973 autonomous docking Mariner-Mercury 1973 Space Shuttle mission 41-A . . . Mars 69 project . . . Mars 71 project . . . Mercury project rendezvous trajectories Space Shuttle Orbital Flight 9 spacecraft docking space flight transfer orbits . manned space flight National Launch Vehicle Program
 NEW MOONS project . . Space Shuttle missions space sciences Space Shuttle mission 41-A USE aerospace sciences . Nimbus project . OPEN Project Columbia (Orbiter) space self maneuvering units Pioneer project Project SETI Space Shuttle mission 41-B USE self maneuvering units GS space flight Ranger project Space Shuttle Ascent Stage . manned space flight . Agena B Ranger Program DEF Shuttle take-off configuration compris-. . Space Shuttle missions Constellation program ing the orbiter, solid rocket boosters, and exter-Space Shuttle mission 41-B Mars Surveyor 98 Program nal tank. Challenger (Orbiter) New Horizons mission spacecraft configurations Rover project Space Shuttle Ascent Stage Space Shuttle mission 41-C SAIL project Advanced Solid Rocket Motor (STS) space flight GS Saturn project ascent propulsion systems . manned space flight Scout project external tanks . . Space Shuttle missions Skylab program Space Shuttle Boosters Space Shuttle mission 41-C Starprobe mission Space Shuttle orbiters Challenger (Orbiter) Surveyor project Space Shuttle upper stages . . . Synchronous Communications space shuttles Space Shuttle mission 41-D Satellite Proj stage separation space flight ... Tektite project . manned space flight ... TIROS project **Space Shuttle Boosters** Space Shuttle missions ... Titan project Shuttle Boosters . Space Shuttle mission 41-D Vanguard project Solid Rocket Boosters (Space Discovery (Orbiter) . . . Viking Mars program Shuttle)
Space Shuttle Solid Rocket Motors . Voyager project
New Zealand space program Space Shuttle mission 41-G GS space flight SRB (Solid Rocket Boosters) Pakistan space program Russian Space Program engines . manned space flight . rocket engines Saudi Arabian space program U.S.S.R. space program Space Shuttle missions . . booster rocket engines . . . Space Shuttle Boosters . . . Advanced Solid Rocket Motor Space Shuttle mission 41-G . Ukrainian space program
Apollo Soyuz test project Challenger (Orbiter) (STS) European Space Agency Space Shuttle mission 51-A . . solid propellant rocket engines GS space flight International Space Year ... Space Shuttle Boosters . manned space flight ISRO . . . . Advanced Solid Rocket Motor . . Space Shuttle missions manned space flight NASA programs (STS) . Space Shuttle mission 51-A RT ∞ boosters Discovery (Orbiter) ∞ research projects manned spacecraft Solar Maximum Mission O ring seals Space Shuttle mission 51-B space missions reusable spacecraft GS space flight Space Shuttle Ascent Stage

## space psychology

GS medical science

- . aerospace medicine
- . space psychology
- psychology

## space psychology

astronaut performance astronaut training aviation psychology manned space flight military psychology psychological effects psychological factors social factors

space adaptation syndrome space flight stress

. rocket engines

Space Shuttle Main Engine

engines

. . liquid propellant rocket engines

. . Space Shuttle Main Engine

DEF Liquid propellant propulsion system

using fuel drawn from external tanks to provide

power for the orbiter to attain orbital speed.

propulsion

space transportation system Space Transportation System flights

## Space Shuttle mission 31-A

- space flight
  . manned space flight
  - . . Space Shuttle missions

. manned space flight

Space Shuttle missions

Space Shuttle mission 51-B

Challenger (Orbiter)

## Space Shuttle mission 51-C

space flight

. manned space flight
. Space Shuttle missions

... Space Shuttle mission 51-C Discovery (Orbiter)

#### Space Shuttle mission 51-D

space flight

. manned space flight

. . Space Shuttle missions

... Space Shuttle mission 51-D

| RT                 | Discovery (Orbiter)                                   | Space Shuttle mission 41-C                                    | Challenger (Orbiter)  |
|--------------------|---|---|---|
| Space              | Shuttle mission 51-E                                  | Space Shuttle mission 41-D Space Shuttle mission 41-G         | Columbia (Orbiter) Discovery (Orbiter)                                  |
| GS                 | space flight  | Space Shuttle mission 51-A                                    | Endeavour (orbiter)   |
|                    | . manned space flight                                 | Space Shuttle mission 51-B                                    | Enterprise (Orbiter)  |
|                    | Space Shuttle missions                                | Space Shuttle mission 51-C                                    | RT Inertial Upper Stage   |
| RT                 | Space Shuttle mission 51-E<br>Challenger (Orbiter)    | Space Shuttle mission 51-D                                    | manned space flight   |
| ΚI                 | Challeriger (Orbiter)                                 | Space Shuttle mission 51-E Space Shuttle mission 51-F         | microwave scanning beam landing   |
| Space              | Shuttle mission 51-F                                  | Space Shuttle mission 51-G                                    | system payload integration plan   |
| GS                 | space flight  | Space Shuttle mission 51-H                                    | Shuttle Derived Vehicles  |
|                    | . manned space flight                                 | Space Shuttle mission 51-I                                    | Space Shuttle Ascent Stage  |
|                    | Space Shuttle missions                                | Space Shuttle mission 51-J                                    | space transportation system   |
| RT                 | Space Shuttle mission 51-F<br>Challenger (Orbiter)    | Space Shuttle mission 51-L                                    | spacecraft recovery   |
|                    | Challeriger (Cristici)                                | Space Shuttle mission 61-A Space Shuttle mission 61-B         | terminal area energy management   |
|                    | Shuttle mission 51-G                                  | Space Shuttle mission 61-C                                    | Space Shuttle payloads  |
| GS                 | space flight  | Space Shuttle mission 61-E                                    | GS payloads   |
|                    | . manned space flight Space Shuttle missions          | RT Get Away Specials (STS)                                    | Space Shuttle payloads  |
|                    | Space Shuttle mission 51-G                            | ∞ missions  | Advanced Technology Laboratory  |
| RT                 | Discovery (Orbiter)                                   | space missions  | Astro missions (STS) Atmospheric General Circulation                    |
|                    | Saudi Arabian space program                           | space transportation system                                   | Experiment  |
| C                  | Chuttle mission E4 H                                  | Space Shuttle Orbital Flight 7                                | Earth radiation budget experiment                                       |
| <b>Space</b><br>GS | Shuttle mission 51-H<br>space flight                  | USE Space Shuttle mission 31-C                                | . Earth Viewing Applications  |
| 00                 | . manned space flight                                 | Space Shuttle Orbital Elight 9                                | Laboratory  |
|                    | Space Shuttle missions                                | Space Shuttle Orbital Flight 8 USE Space Shuttle mission 31-D | electromagnetic environment   |
|                    | Space Shuttle mission 51-H                            | ool opado onadio inidolon o i b                               | experiment<br>Get Away Specials (STS)                                   |
| RT                 | Atlantis (orbiter)                                    | Space Shuttle Orbital Flight 9                                | Halogen Occultation Experiment  |
| Snaco              | Shuttle mission 51-I                                  | USE Space Shuttle mission 41-A                                | OSS-1 payload   |
| Space<br>GS        | space flight  | Space Shuttle Orbital Flight Test 1                           | OSTA-1 payload  |
| 00                 | . manned space flight                                 | USE Space Transportation System 1                             | OSTA-3 payload  |
|                    | Space Shuttle missions                                | flight  | Physics and Chemistry Experiment  |
|                    | Space Shuttle mission 51-I                            | -   | in Space plasma interaction experiment                                  |
| RT                 | Discovery (Orbiter)                                   | Space Shuttle Orbital Flight Test 2                           | Spacelab  |
| Snace              | Shuttle mission 51-J                                  | USE Space Transportation System 2 flight                      | X Ray Astrophysics Facility   |
|                    | space flight  | iligit  | RT commerce lab   |
|                    | . manned space flight                                 | Space Shuttle Orbital Flight Test 3                           | extravehicular activity   |
|                    | Space Shuttle missions                                | USE Space Transportation System 3                             | Feature Identification and Location Exper                               |
| рт                 | Space Shuttle mission 51-J                            | flight  | Hubble Space Telescope  |
| RT                 | Atlantis (orbiter)                                    | Space Shuttle Orbital Flight Test 4                           | Multi-Purpose Logistics Modules   |
| Space              | Shuttle mission 51-L                                  | USE Space Transportation System 4                             | orbital servicing   |
| ĠS                 | space flight  | flight  | payload assist module   |
|                    | . manned space flight                                 |   | payload integration   |
|                    | Space Shuttle missions                                | Space Shuttle Orbital Flight Tests                            | payload integration plan<br>Shuttle Imaging Radar                       |
| RT                 | Space Shuttle mission 51-L<br>Challenger (Orbiter)    | USE Space Transportation System flights                       | sortie systems  |
| 17.1               | Challeriger (Orbiter)                                 | llights   | space station payloads  |
| Space              | Shuttle mission 61-A                                  | Space Shuttle Orbital Flights                                 | space technology experiments  |
| GS                 | space flight  | USE Space Transportation System                               | space transportation system   |
|                    | . manned space flight                                 | flights   | spaceborne experiments<br>Starlab                                       |
|                    | Space Shuttle missions Space Shuttle mission 61-A     | Space Shuttle Orbiter 099                                     | Stallab   |
| RT                 | Challenger (Orbiter)                                  | USE Challenger (Orbiter)                                      | Space Shuttle Solid Rocket Motors                                       |
|                    | Columbia (Orbiter)                                    | ,   | USE Space Shuttle Boosters  |
| _                  | 51 ml 1 1 54 5  | Space Shuttle Orbiter 101                                     | 0   |
|                    | Shuttle mission 61-B                                  | USE Enterprise (Orbiter)                                      | Space Shuttle upper stage A  DEF A version of a spinning solid upper    |
| GS                 | space flight . manned space flight                    | Space Shuttle Orbiter 102                                     | stage centered around an Atlas Centaur launch                           |
|                    | Space Shuttle missions                                | USE Columbia (Orbiter)  | vehicle. Used for SSUS-A.   |
|                    | Space Shuttle mission 61-B                            | , ,   | UF SSUS-A   |
| RT                 | Atlantis (orbiter)                                    | Space Shuttle Orbiter 103                                     | GS Space Shuttle upper stages   |
| Snaca              | Shuttle mission 61-C                                  | USE Discovery (Orbiter)                                       | . <b>Space Shuttle upper stage A</b> RT Atlas Centaur launch vehicle    |
| GS                 | space flight  | Space Shuttle Orbiter 104                                     | KT Atlas Centaur laurich verlicie                                       |
| 00                 | manned space flight                                   | USE Atlantis (orbiter)  | Space Shuttle upper stage D   |
|                    | Space Shuttle missions                                | , ,   | DEF A version of a spinning solid upper                                 |
|                    | Space Shuttle mission 61-C                            | Space Shuttle Orbiter 105                                     | stage centered around a Delta launch vehicle.                           |
| RT                 | Columbia (Orbiter)                                    | USE Endeavour (orbiter)                                       | Used for SSUS-D.<br>UF SSUS-D   |
| Snace              | Shuttle mission 61-E                                  | Space Shuttle orbiters  | GS Space Shuttle upper stages   |
| GS                 |   | UF Shuttle Orbiters   | . Space Shuttle upper stage D   |
|                    | . manned space flight                                 | GS manned spacecraft  | RT Delta launch vehicle   |
|                    | Space Shuttle missions                                | . space shuttles  | solid propellant rocket engines   |
| БТ                 | Space Shuttle mission 61-E                            | Space Shuttle orbiters  | spin stabilization  |
| RT                 | Columbia (Orbiter)                                    | Atlantis (orbiter)<br>Challenger (Orbiter)                    | Snace Shuttle upper stages  |
| Space              | Shuttle missions                                      | Columbia (Orbiter)  | Space Shuttle upper stages  DEF A collective term for the various types |
| GS                 | space flight  | Discovery (Orbiter)   | of upper stages planned for the Space Shuttle.                          |
|                    | . manned space flight                                 | Endeavour (orbiter)   | GS Space Shuttle upper stages   |
|                    | Space Shuttle missions                                | Enterprise (Orbiter)  | . Space Shuttle upper stage A   |
|                    | Space Shuttle mission 31-A                            | reentry vehicles  | . Space Shuttle upper stage D   |
|                    | Space Shuttle mission 31-B Space Shuttle mission 31-C | . recoverable spacecraft                                      | . spinning solid upper stage  |
|                    | Space Shuttle mission 31-C Space Shuttle mission 31-D | reusable spacecraft space shuttles                            | RT Space Shuttle Ascent Stage   |
|                    | Space Shuttle mission 41-A                            | Space Shuttle orbiters  | space shuttles  |
|                    | Space Shuttle mission 41-B                            | Atlantis (orbiter)  | GS manned spacecraft  |

#### . space shuttles

- Buran space shuttle
- Hermes manned spaceplane
- Space Shuttle orbiters
- . . . Atlantis (orbiter)
- Challenger (Orbiter)
- ... Columbia (Orbiter)
- Discovery (Orbiter)
- . . . Endeavour (orbiter)
- . . . Enterprise (Orbiter)
- reentry vehicles . recoverable spacecraft
- . . reusable spacecraft
- space shuttles
- . . . Buran space shuttle
- Hermes manned spaceplane
- Space Shuttle orbiters
- . . . Atlantis (orbiter)

- ....Atlantis (orbiter)
  .....Challenger (Orbiter)
  .....Discovery (Orbiter)
  .....Endeavour (orbiter)
  .....Enterprise (Orbiter)
  RT Advanced Launch System (STS)

Aeromaneuvering Orbit to Orbit Shuttle

annular suspension and pointing

system approach and landing tests (STS)

Assess program

auxiliary propulsion BESS (satellite)

Columbus space station

entry guidance (STS)

Eureca (ESA)

expendable stages (spacecraft)

German Infrared Laboratory

HOTOL launch vehicle

Inertial Upper Stage

interim stages (spacecraft) International Space Station

intraorbit transfer vehicles

LIRTS (telescope)

manned space flight

Orbit Maneuvering Engine (Space

Shuttle)

orbit transfer vehicles

orbital maneuvers payload control

payload deployment & retrieval

system

system
payload retrieval (STS)
SAIL project
Shuttle Derived Vehicles
Shuttle Engineering Simulator
Shuttle pallet satellites
single stage to orbit vehicles
sortie systems
Snace Shuttle Ascent Stage

Space Shuttle Ascent Stage

space transportation system

Space Transportation System flights ∞ spacecraft

spacecraft recovery

Spacelab

#### space simulators

DEF Devices used to simulate one or more parameters of the space environment used for testing space systems or components. Specifically, a closed chamber capable of approximating the vacuum and normal environments of space. Used for orbital simulators.

orbital simulators

GS simulators

- . environment simulators
- .. space simulators
- ... clinostats
- . . . High Vacuum Orbital Simulator
- . . Langley complex coordinator centrifuges

flight simulators

neutral buoyancy simulation

solar simulators

spacecraft environments vacuum chambers

### Space Station Freedom

(added August 1991)

UF Freedom Space Station GS

artificial satellites

. space stations

Space Station Freedom stations

. space stations

. Space Station Freedom

Columbus space station

International Space Station

large space structures

NASA space programs

orbital servicing space laboratories

space platforms

space station payloads space station polar platforms space station power supplies space station propulsion

space station structures

#### Space Station Mobile Servicing System

(added September 2001)

DEF Canadian robotic arm system for the International Space Station (ISS), used for ISS assembly, maintenance and payload servicing. Includes three primary components: the Space Station Remote Manipulator System, Mobile Base System, and Special Purpose Dexterous Manipulator.

Canadarm (ISS)

Mobile Servicing System (ISS) MSS (International Space Station) Space Station Remote Manipulator

System

manipulators GS

. remote manipulator system
. . Space Station Mobile Servicing System

robot arms

#### Space Station Mobile Servicing System

Canadian space program International Space Station

orbital assembly payload deployment & retrieval

system remote handling

space maintenance

space station modules

## space station modules

(added November 1998)

modules

# . space station modules

- . . Columbus module
- **Destiny Laboratory Module**
- Kvant modules Multi-Purpose Logistics Modules
- Priroda module
- Service Module (ISS) . . Unity connecting module
- Zarya control module

airlock modules

compartments

International Space Station

Mir space station

orbital assembly

space erectable structures Space Station Mobile Servicing

System

space station structures spacecraft docking modules spacecraft modules

#### space station payloads

GS payloads

space station payloads

Alpha Magnetic Spectrometer Earth Observing System (EOS) man tended free flyers

Space Shuttle payloads Space Station Freedom

space station polar platforms

space stations Spacelab payloads

## space station polar platforms

polar platforms (space stations) UF GS

artificial satellites

. space stations

space station polar platforms space platforms

space station polar platforms

stations

. space stations

. space station polar platforms Columbus space station

Earth Observing System (EOS)

polar orbits

remote sensing

Space Station Freedom space station payloads

space station power supplies

electric power supplies

space station power supplies

electric batteries energy storage

solar arrays solar cells

solar dynamic power systems space power reactors

Space Station Freedom

space stations

spacecraft power supplies thermoelectric generators

space station propulsion

propulsion

space station propulsion

auxiliary propulsion electric propulsion

hydrogen oxygen engines ion engines

low thrust propulsion propulsion system configurations

resistojet engines solar electric propulsion Space Station Freedom

space stations spacecraft propulsion

Space Station Remote Manipulator System (added September 2001)
USE Space Station Mobile Service

System

space station structures

space station structures
. Integrated Truss Structure P1

Integrated Truss Structure P1
Integrated Truss Structure S1
Integrated Truss Structure Z1
Kvant modules
large space structures
orbital assembly
Priroda module

smart structures space erectable structures

Space Station Freedom

space station modules

space stations spacecraft structures

structural design ∞ structures

space stations UF Earth orbiting space stations manned orbital space stations MOSS (space stations) self deploying space stations

artificial satellites . space stations

. . Automatic Universal Orbiting Stations

Columbus space station ... Halo Orbit space station

. . International Space Station . . man tended free flyers

. . Mir space station orbiting lunar stations

Salyut space station

Skylab 1 Skylab 2

Skylab 3

. . Skylab 4 Space Operations Center (NASA)

Space Station Freedom

. space station polar platforms

stations

. space stations spacecraft tracking RT Advanced Solid Rocket Motor (STS) . . Automatic Universal Orbiting annular suspension and pointing Stations space surveillance (spaceborne) . . Columbus space station surveillance approach and landing tests (STS) . . Halo Orbit space station space surveillance (spaceborne) Atmospheric General Circulation . . International Space Station air defense Experiment . . man tended free flyers antimissile defense defense program Mir space station high altitude nuclear detection extravehicular mobility units orbiting lunar stations ice mapping Hermes manned spaceplane Salyut space station ice reporting Inertial Upper Stage Skylab 1 military spacecraft manned maneuvering units optical countermeasures Skylab 2 NASA programs reconnaissance orbital servicing . . Skylab 3 OSS-1 payload
OSTA-1 payload
OSTA-2 payload
OSTA-2 payload
OSTA-3 payload
payload assist module satellite-borne photography Skylab 4 Space Operations Center (NASA) satellite-to-satellite tracking Space Station Freedom ∞ space surveillance space station polar platforms spacecraft tracking AEPS payload assist module payload delivery (STS) payload integration plan payload retrieval (STS) autonomous docking space systems engineering bioastronautics ferry spacecraft aerospace engineering power modules (STS) space technology experiments inflatable structures antenna design large space structures manned orbital laboratories remote manipulator system Space Shuttle Main Engine large space structures manned spacecraft Space Shuttle missions space erectable structures Space Shuttle orbiters military spacecraft Space Shuttle payloads orbital servicing Space Shuttle payloads spaceborne experiments orbital space tests space shuttles orbital workshops Space Transportation System flights space temperature ∞ platforms space tugs temperature rendezvous spacecraft Spacelab space temperature Saturn 1 workshop ∞ systems cryogenic temperature Saturn 5 workshop Space Transportation System 1 flight UF OFT 1 electron energy Saturn workshops ion temperature sortie systems Orbital Flight Test 1 (shuttle) space bases space tools Space Shuttle Orbital Flight Test 1 space colonies GS tools space habitats STS-1 space tools space laboratories Space Transportation System flights low gravity manufacturing space platforms . Space Transportation System 1 orbital workers flight space station payloads telerobotics space station power supplies Space Transportation System 2 flight space station propulsion space tourism space station structures OFT 2 (added April 1999) Orbital Flight Test 2 (shuttle) spacecraft docking space industrialization Space Shuttle Orbital Flight Test 2 spin stabilization space tourism STS-2 X-38 crew return vehicle tourism Space Transportation System flights space tourism Space Transportation System 2 space storage space commercialization cryogenic fluid storage flight space transportation cryogenic rocket propellants Space Transportation System 3 flight UF OFT 3 cryogenic tanks space transportation propellant storage DEF The conveyance of payloads or personnel to, through, or from outer space. Orbital Flight Test 3 (shuttle) storable propellants Space Shuttle Orbital Flight Test 3 ∞ storage transportation storage tanks space transportation Space Transportation System flights . . space transportation system . . Advanced Launch System (STS) . Space Transportation System 3 flight DEF Pressure suits for wear in space or at . . . Saenger space transportation very low ambient pressures within the atmosystem Space Transportation System 4 flight sphere, designed to permit the wearer to leave Delta Clipper UF OFT 4 the protection of a pressurized cabin. HOPE aerospace plane Orbital Flight Test 4 (shuttle) GS clothing HOTOL launch vehicle Space Shuttle Orbital Flight Test 4 . protective clothing Inertial Upper Stage STS-4 . . pressure suits Japanese space program Space Transportation System flights ... space suits orbit transfer vehicles . Space Transportation System 4 .... extravehicular mobility units payload stations flight . suits payloads . . pressure suits single stage to orbit vehicles Space Transportation System flights ... space suits space elevators Revised collective designation for all . . . extravehicular mobility units Space Shuttle flights. Used for OFT, orbital flight space tourism RT safety devices tests (shuttle), Space Shuttle orbital flight tests, terminal area energy management and Space Shuttle orbital flights. OFT space transportation system (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS DEF A joint NASA-DOD advanced space orbital flight tests (shuttle) transportation concept for the 1980s. The main Space Shuttle Orbital Flight Tests LISTED BELOW) space surveillance (ground based) element of the STS is the Space Shuttle. An-Space Shuttle Orbital Flights space surveillance (spaceborne) other element is the orbit transfer vehicles-OTV. Space Transportation System A third element called Spacelab is designed and flights space surveillance (ground based) manufactured by the European Space Agency, . Space Transportation System 1 has no propulsive capability and is carried by the surveillance flight . space surveillance (ground Space Shuttle. Used for STS. . Space Transportation System 2 based) STS fliaht

transportation

. space transportation

system

space transportation system

... Saenger space transportation

... Advanced Launch System (STS)

. Space Transportation System 3

. Space Transportation System 4

fliaht

flight

RT entry guidance (STS) geophysical fluid flow cells

RT

air defense

antimissile defense

asteroid detection

minitrack system

space surveillance

space observations (from Earth)

spacecraft Solar Cell Calibration Facility the surface of airless planets or small bodies. RT airborne lasers space flight laser applications exposure weathering Space Shuttle Main Engine remote sensors space shuttles . space weathering space transportation system aerospace environments spaceborne photography ∞ systems damage space photography ∞ tests erosion GS imagery extraterrestrial environments . photography space tugs Long Duration Exposure Facility spaceborne photography RT Inertial Upper Stage satellite-borne photography modules aerial photography astronomical photography black and white photography micrometeorites orbit transfer vehicles orbital servicing spaceborne astronomy astronomy cloud photographs payloads GS cloud photographs cloud photography diffraction limited cameras Earth resources propulsion spaceborne astronomy space transportation system Alpha Magnetic Spectrometer spacecraft propulsion Astro missions (STS) astronomical interferometry lunar photography space vehicle checkout program astronomical satellites spacecraft prelaunch tests Constellation-X Mars photographs checkout Cosmic Background Explorer satellite multispectral band scanners faint object camera countdown photomapping performance tests Gamma Ray Observatory photomaps prefiring tests Granat satellite rocket-borne photography Hipparcos satellite spacecraft maintenance satellite observation Hubble Space Telescope Infrared Space Observatory (ISO) spaceborne telescopes space vehicle control GS telescopes USE spacecraft control James Webb Space Telescope . spaceborne telescopes LISA (observatory) . . Constellation-X Magellan ultraviolet astronomy space vehicles German Infrared Laboratory USE spacecraft , satellite . . Hubble Space Telescope Microwave Anisotropy Probe . . Infrared Space Observatory (ISO) space weapons Pinhole Occulter Facility . . James Webb Space Telescope GS weapons Quasat Large Deployable Reflector space weapons ROSAT mission . . LIRTS (telescope) air to air missiles SAS-2 . . solar optical telescope antimissile missiles SAS-3 Space Infrared Telescope Facility Chaparral missile SOFIA (airborne observatory) Starlab laser weapons Space Infrared Telescope Facility Starsat telescope Minuteman ICBM Starsat telescope X Ray Astrophysics Facility
XMM-Newton telescope nuclear weapons Submillimeter Wave Astronomy surface to air missiles Satellite Astro missions (STS) astronomical observatories weapon systems Swift observatory weapons delivery telescopes astronomical photography ultraviolet telescopes astronomy space weather X Ray Astrophysics Facility diffraction limited cameras (added June 1999) (added June 1999)

SN (FOR METEOROLOGICAL CONDITIONS RELATED TO THE MIDDLE AND LOWER ATMOSPHERES OF NON-EARTH PLANETS USE "PLANETARY METEOROLOGY".)

DEF The dynamic, highly variable conditions of the geospace environment that encompasses the sun, the interplanetary medium, and the Seath magnetosphere incompany. faint object camera spaceborne experiments Gamma Ray Observatory A collective term designating the varimulti-anode microchannel arrays ous experiments performed or planned in orbiting spacecraft and usually involving physical Next Generation Space Telescope project phenomena in space environments. optical transfer function spaceborne experiments ROSAT mission Orbiting Frog Otolith

Physics and Chemistry Experiment passes the sun, the interplanetary medium, and the Earth magnetosphere-ionosphere-thermosphere system. Major contributing factors include variations in the solar wind, solar flares, and solar mass ejections. Effects of space weather phenomena include performance degradation of communication, navigation, and power systems on both spacecraft and ground-based systems: and potential health Swift observatory in Space ∞ spacecraft . plasma interaction experiment (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN aerospace environments AMPTE (satellites) DEF Devices, manned and unmanned, which are designed to be placed into an orbit bioprocessing Columbus module about the Earth or into a trajectory to another celestial body. Used for space vehicles. ground-based systems; and potential health CRRES (satellite) hazards during extravehicular activity.

RT Advanced Composition Explorer Destiny Laboratory Module space vehicles experimentation Advanced Reconn Electric Spacecraft aerospace environments geophysical fluid flow cells aerospace safety Get Away Specials (STS) aerospace vehicles Earth ionosphere International Space Station air data systems Earth magnetosphere Long Duration Exposure Facility Astro vehicle Earth orbital environments man tended free flyers astrodynamics geomagnetism Atlantis (orbiter) molecular shields Multi-Purpose Logistics Modules GOES 13 auxiliary propulsion interplanetary shock waves biosatellites OSS-1 payload ionospheric disturbances OSTA-1 payload Canadian spacecraft OSTA-3 payload payload assist module magnetic disturbances cargo spacecraft magnetic storms Challenger (Orbiter) Polar/GGS spacecraft payload integration plan Chinese spacecraft radiation hazards payloads Clementine spacecraft solar activity effects space laboratories Columbia (Orbiter) solar terrestrial interactions Czechoslovakian spacecraft space manufacturing Discovery (Orbiter) space plasmas space processing

#### space weathering (added July 2001)

weather

DEF All processes that act on material exposed to the space environment including micrometeorite impacts and interactions with solar wind, cosmic rays, and ambient plasma. Includes processes associated with exposure at

spaceborne lasers

stimulated emission devices

Space Shuttle payloads

space technology experiments

. lasers

Spacelab

weightlessness

. . spaceborne lasers

dual spin spacecraft

Endeavour (orbiter)

Enterprise (Orbiter)

expandable structures

French space program

ESA spacecraft

escape rockets

flexible spacecraft

flight test vehicles

Galileo probe wreckage wireless communication Galileo spacecraft ground support equipment spacecraft components spacecraft cabin atmospheres hypersonic vehicles GS spacecraft components controlled atmospheres Indian space program . service modules cabin atmospheres Indian spacecraft . . Multi-Purpose Logistics Modules spacecraft cabin atmospheres inflatable spacecraft . spacecraft cabins carbon dioxide concentration interplanetary spacecraft . spacecraft docking modules closed ecological systems Israeli spacecraft . spacecraft modules cockpits Japanese space program . . command modules environmental control Japanese spacecraft . . command service modules high pressure oxygen . . landing modules launch vehicles pressurized cabins lunar spacecraft . . . lunar landing modules rebreathing Magellan spacecraft (NASA) . . . . Lunar Module maneuverable spacecraft . . . . . Apollo lunar experiment spacecraft cabin simulators manned orbital laboratories module simulators manned spacecraft .... LSSM . training simulators
. . spacecraft cabin simulators Mariner Mark 2 Spacecraft . . . . . Lunar Module 5 Mark 1 spacecraft . . . . . Lunar Module 7 training devices military spacecraft orbit transfer vehicles ... Mars Excursion Module . training simulators . . SIM . spacecraft cabin simulators orbital maneuvering vehicles orbiting lunar stations outer planets explorers photo reconnaissance spacecraft airborne/spaceborne computers aerospace environments boron-epoxy composites cockpit simulators commonality manned spacecraft ∞ components simulation nose cones Pioneer Venus 2 spacecraft space flight training power limited spacecraft rocket engines space logistics Radiation Meteoroid spacecraft ∞ spacecraft spacecraft computers recoverable spacecraft test facilities airborne/spaceborne computers USE reentry vehicles research vehicles spacecraft cabins spacecraft configurations satellites compartments GS spacecraft configurations GS SERT 1 spacecraft spacecraft cabins satellite configurations SERT 2 spacecraft spacecraft components Space Shuttle Ascent Stage Shuttle Derived Vehicles spacecraft cabins aerodynamic configurations soft landing spacecraft RT ∞ cabins aircraft configurations Solar Maximum Mission-A cockpits Apollo short stack solettas crew experiment stations ∞ configurations Soviet spacecraft crew observation stations flared bodies space capsules launch vehicle configurations crew workstations space debris pressurized cabins propulsion system configurations space laboratories space capsules Radiation Meteoroid spacecraft space missions reentry vehicles space shuttles spacecraft charging upper stage rocket engines spacecraft cabin simulators DEF Electric charge induction upon the surface of a spacecraft by magnetospheric plasmas spacecraft modules spacecraft construction materials technology feasibility spacecraft or other ion sources.

RT electric fields RT ∞ construction materials functionally gradient materials test vehicles TOPS (spacecraft) external surface currents Ludox (trademark) transatmospheric vehicles unidentified flying objects single event upsets ∞ materials materials selection spacecraft glow unmanned spacecraft system generated electromagnetic ∞ vehicles spacecraft contamination pulses Viking orbiter 1 GS contamination Viking orbiter 2 spacecraft contamination Viking orbiter spacecraft Spacecraft Charging at High Altitude decontamination USE SCATHA satellite Voyager 1 spacecraft Voyager 2 spacecraft exobiology X-30 vehicle spacecraft communication spacecraft control X-37 vehicle (COMMUNICATION OF SPACECRAFT space vehicle control WITH GROUND OR OTHER SPACECRAFT) GS spacecraft control . satellite control The act of, or methods for, conveying spacecraft antennas information to or from manned or unmanned . satellite attitude control antennas attitude control spacecraft. . spacecraft antennas GS telecommunication automatic control radio equipment . space communication control spacecraft antennas . . spacecraft communication control simulation telecommunication ... reentry communication crew procedures (preflight) spacecraft antennas satellite communication engine control furlable antennas ARPA computer network flexible spacecraft astrionics flight control circumlunar communication fly by wire control spacecraft breakup Earth terminals formation flying (added August 1989) facsimile communication ground based control breakup (spacecraft) ground-air-ground communication manual control orbital breakup hoop column antennas Marquardt R4D engine reentry breakup interplanetary communication missile control satellite breakup lunar communication orbit determination satellite fragmentation optical communication pointing control systems atmospheric entry packet transmission radio control destruction remote control plasma antennas hazards radio communication rocket engine control meteoroid hazards shape control satellite communications ships orbit decay satellite ground support stationkeeping single channel per carrier reentry effects thrust vector control

transmission

pulses

unified S band

system generated electromagnetic

visual control

DEF The protection of spacecraft from un-

spacecraft defense

space debris

spacecraft reentry

spacecraft survivability

uncontrolled reentry (spacecraft)

desirable external forces. Used for satellite de-

satellite defense RT spacecraft survivability stealth technology vulnerability

#### spacecraft design

The act of conceiving and planning the structure, systems, and performance characteristics of any type of spacecraft including space probes, satellites, space platforms and space stations

#### GS spacecraft design

. IPAD

satellite design

RT Advanced Launch System (STS) aeroshells

computer aided design

∞ design

engine design

Hermes manned spaceplane Indian space program Japanese space program

lofting

product development

satellite temperature Shuttle Derived Vehicles

space debris

spacecraft temperature

structural design

systems engineering transatmospheric vehicles

weight reduction

spacecraft docking
DEF The act of coupling two or more orbiting objects; the operation of mechanically connecting together, or in some manner bring together orbital payloads.

GS maneuvers

. docking

#### . . spacecraft docking

. spacecraft maneuvers

RT ∞ astronautics

autonomous docking

interception

Mir space station

mooring

multiple docking adapters

orbital rendezvous rendezvous trajectories

Salyut space station

space rendezvous

space stations

spacecraft docking modules

transfer orbits

Unity connecting module

#### spacecraft docking modules

GS modules

. spacecraft docking modules

spacecraft components

spacecraft docking modules

airlock modules

command modules

command service modules

landing modules

Multi-Purpose Logistics Modules

service modules space station modules

spacecraft docking

#### spacecraft electronic equipment

electronic equipment

spacecraft electronic equipment onboard equipment

. spacecraft equipment . spacecraft electronic equipment

airborne/spaceborne computers

astrionics single event upsets

## spacecraft environments

(added August 1989)

IG AUGUST 1969)
(LIMITED TO SPACECRAFT INTERNAL
COMPARTMENTS AND CABINS; FOR
SPACECRAFT EXTERNAL
ENVIRONMENTS REFER TO
'EXTRATERRESTRIAL ENVIRONMENTS')

GS environments

#### spacecraft environments

aerospace medicine

Automatic Universal Orbiting Stations

bioastronautics closed ecological systems

controlled atmospheres environmental control

exobiology extraterrestrial environments

intravehicular activity life support systems rotating environments satellite temperature space simulators

thermal environments weightlessness

#### spacecraft equipment

GS onboard equipment

#### . spacecraft equipment

. spacecraft electronic equipment

RT ∞ equipment OSTA-3 payload spacecraft instruments

#### spacecraft glow

shuttle glow

GS decay

spacecraft glow

emission

. light emission

. . luminescence

. spacecraft glow Earth orbital environments spacecraft charging

surface reactions

#### spacecraft guidance

guidance (motion)

### spacecraft guidance

. satellite guidance

automatic control

autonomous docking autonomous navigation

CCD star tracker

celestial navigation

command guidance formation flying

ground based control

inertial guidance

injection guidance interplanetary flight

interplanetary trajectories

laser gyroscopes

manual control

midcourse guidance

orbits

reentry guidance

rendezvous guidance

space flight

space navigation

star trackers terminal guidance

### spacecraft instruments

DEF Electronic, optical, gyroscopic, and other instruments that play a role in the control of the spacecraft, or that function to measure, record, display, or process different values or quantities encountered in the flight of a spacecraft.

UF spacecraft sensors

#### spacecraft instruments

. satellite instruments

. . multispectral linear arrays spacecraft position indicators

astrionics

Atmospheric Cloud Physics Lab (Spacelab)

autonomous spacecraft clocks bubble technique

flight instruments

flight test instruments quidance sensors

I2S cameras

instrument packages

∞ instruments laser altimeters

measuring instruments

onboard equipment spacecraft equipment

#### spacecraft landing

GS landing

### . spacecraft landing

... horizontal spacecraft landing

. . lunar landing

. . planetary landing . Mars landing

aircraft landing

approach and landing tests (STS)

crash landing emergency landing glide landings hard landing landing simulation

soft landing soft landing spacecraft

terminal area energy management

touchdown vertical landing water landing

#### spacecraft launching

satellite launching

GS launching

#### spacecraft launching

. . liftoff (launching)

countdown

Delta 4 Heavy launch vehicle heavy lift launch vehicles HOTOL launch vehicle

launch costs launch dates launch vehicles launch windows launching pads missiles orbit insertion orbital launching orbital shots postlaunch reports prelaunch summaries railgun accelerators

# space commercialization

spacecraft lubrication space environmental lubrication

reusable launch vehicles

GS lubrication

spacecraft lubrication

rocket launching

self lubricating materials

spacecraft maintenance GS maintenance

spacecraft maintenance checkout

prelaunch tests space vehicle checkout program

spacecraft reliability turnaround (STS)

## spacecraft maneuvers

GS

satellite maneuvers maneuvers

. spacecraft maneuvers

. spacecraft docking control simulation formation flying maneuverability

maneuverable spacecraft orbit insertion space flight

spacecraft models GS models

#### . spacecraft models

aircraft models dynamic models mathematical models scale models

#### spacecraft modules

GS modules

## . spacecraft modules

. . command modules

. . command service modules

. . landing modules

. . . lunar landing modules . . position indicators cooling . . . . Lunar Module . spacecraft position indicators cooling systems . . . . . Apollo lunar experiment spacecraft instruments radiative heat transfer module spacecraft position indicators solar reflectors .... LSSM flight instruments head-up displays spacecraft recovery . . . . . Lunar Module 5 . Lunar Module 7 orbit determination UF satellite capture . . . Mars Excursion Module orbital position estimation snatching space navigation booster recovery Discoverer recovery capsules spacecraft components spacecraft modules spacecraft power supplies recoverable spacecraft DEF Sources of electrical energy, including . . command modules ∞ recovery batteries, generators, and energy conversion . . command service modules recovery parachutes devices, that support the normal operation of recovery zones . . landing modules spacecraft. . . . lunar landing modules rescue operations . . . . Lunar Module GS electric power supplies reusable launch vehicles . . . . . Apollo lunar experiment spacecraft power supplies Space Shuttle orbiters module auxiliary power sources space shuttles cryocycle principle water landing . LSSM . . . . Lunar Module 5 direct power generators electric batteries spacecraft reentry GS atmospheric entry energy sources ... Mars Excursion Module free-piston engines . reentry . . SIM laser power beaming . . spacecraft reentry RT compartments man tended free flyers . uncontrolled reentry (spacecraft) microwave power beaming nickel hydrogen batteries Earth-Venus trajectories orbital assembly entry guidance (STS) flight mechanics nuclear auxiliary power units service modules power beaming power modules (STS) space capsules hypersonic reentry space erectable structures ∞ power supplies lifting reentry vehicles space station modules manned reentry
return to Earth space flight propellants spacecraft solar dynamic power systems satellite lifetime space station power supplies spacecraft motion (NONTRAJECTORY MOTION) aerodynamic balance thermophotovoltaic conversion spacecraft breakup aerodynamic stability spacecraft prelaunch tests spacecraft reliability attitude stability USE space vehicle checkout program GS reliability buffeting control stability dynamic stability . spacecraft reliability circuit reliability component reliability controllability spacecraft propulsion DEF The action or process of imparting flexible spacecraft motion to a spacecraft by means of a force such as a thrust of air or energy released by burning flutter prelaunch problems ∞ motion fuel. quality control motion stability oscillations GS propulsion spacecraft maintenance spacecraft propulsion . . electromagnetic propulsion . . . magnetic sails spacecraft rendezvous sideslip stability USE space rendezvous . . electrostatic propulsion . . . ion propulsion tumbling motion spacecraft sensors vibration . . matter-antimatter propulsion . . negative matter propulsion USE spacecraft instruments spacecraft orbital assembly . . photonic propulsion
. . . laser propulsion
. . plasma propulsion spacecraft shielding USE orbital assembly GS shielding spacecraft shielding spacecraft orbits . . solar propulsion
. . . solar electric propulsion
. . . solar thermal propulsion aeroshells GS orbits heat shielding . spacecraft orbits ∞ insulated structures meteoroid protection nose cones . . satellite orbits . . . geosynchronous orbits chemical propulsion ... parking orbits descent propulsion systems radiation shielding . . . stationary orbits electric propulsion radio frequency shielding reentry shielding . . . twenty-four hour orbits fusion propulsion . . transfer orbits Hall thrusters reusable heat shielding . . interplanetary transfer orbits laser propulsion circular orbits low thrust propulsion safety devices solar radiation shielding Earth orbits magnetic nozzles elliptical orbits magnetoplasmadynamic thrusters equatorial orbits magnetoplasmadynamics spacecraft stability lunar orbits mass drivers satellite attitude disturbance orbit insertion nuclear electric propulsion dynamic characteristics orbital mechanics nuclear propulsion . dynamic stability orbital position estimation oxygen-hydrocarbon rocket engines . . motion stability spacecraft stability planetary orbits post boost propulsion system retrograde orbits stability propellants solar orbits pulsed inductive thrusters . dynamic stability . . motion stability pulsed plasma thrusters spacecraft performance rocket engines . . spacecraft stability DEF The manner or effectiveness in which rocket-based combined-cycle engines aerodynamic balance any space vehicle, space platform, or space aerodynamic stability Rover project station functions while in operation in space, or attitude stability solar sails buffeting control stability in a simulated space environment. space flight space station propulsion RT astronaut performance ∞ performance counterbalances space tugs total impulse directional stability postlaunch reports Discos (satellite attitude control) VASIMR (propulsion system) spacecraft position indicators dual spin spacecraft GS display devices spacecraft radiators lateral stability liquid sloshing longitudinal stability . position indicators UF space radiators spacecraft position indicators heat radiators GS

. **spacecraft radiators** condensers (liquefiers)

RT

low speed stability

nutation dampers

measuring instruments

. indicating instruments

satellite perturbation tumbling motion wind tunnel stability tests

#### spacecraft sterilization

cleaning

. sterilization

. spacecraft sterilization decontamination

spacecraft sterilization

chemical sterilization ethylene oxide exobiology planetary protection planetary quarantine purification

sterilization effects

#### spacecraft structures

aeroshells aircraft structures folding structures fuel tanks large space structures meteoroid protection orbital assembly rocket engines satellite design

smart structures space erectable structures space station structures

structural design ∞ structures

#### spacecraft survivability

DEF The ability of a spacecraft to survive adverse conditions including reentry problems.

RT aircraft survivability

spacecraft breakup spacecraft defense survival

> uncontrolled reentry (spacecraft) vulnerability

#### spacecraft television

communication equipment

spacecraft television

. . digital spacecraft television
. . Ranger block 3 television system

. satellite television

telecommunication

## . spacecraft television

digital spacecraft television

Ranger block 3 television system

satellite television

television systems

#### . spacecraft television

. . digital spacecraft television

Ranger block 3 television system

. satellite television

color television satellite transmission stereotelevision television transmission

### spacecraft temperature

spacecraft temperature

satellite temperature heat pipes

spacecraft design temperature control

### spacecraft tracking

DEF The process of following the movements of a spacecraft or space platform by radar, optical, or other means.

tracking (position)

#### spacecraft tracking

. . satellite tracking

. satellite-to-satellite tracking

RT Advanced Range Instrumentation

Ship Deep Space Network minitrack system missile tracking optical tracking polystation doppler tracking system radar tracking radio tracking space detection and tracking system space surveillance (ground based) space surveillance (spaceborne) tracking networks tracking stations

transponder control group unified S band

Spacecraft Tracking and Data Network USE STDN (network)

## spacecraft trajectories

GS trajectories

. spacecraft trajectories
. interplanetary trajectories

Earth-Mars trajectories

Earth-Mercury trajectories

Earth-Venus trajectories

lunar trajectories

... circumlunar trajectories

Earth-Moon trajectories

. . . moon-Earth trajectories

ascent trajectories descent trajectories

Earth orbital rendezvous

flight mechanics

Goddard Trajectory Determination

System

hyperbolic trajectories interorbital trajectories lunar orbital rendezvous

∞ motion

orbital rendezvous radio occultation reentry trajectories rendezvous trajectories round trip trajectories swingby technique

#### spacecrew transfer

intervehicle spacecrew transfer UF Apollo Soyuz test project command modules manned space flight rendezvous spacecraft space logistics

#### spacecrews

GS personnel

. crews

. . flight crews

. . . spacecrews
. flying personnel
. . flight crews

. . spacecrews

#### astronauts

cosmonauts

crew experiment stations crew observation stations

crew procedures (inflight) crew procedures (preflight) crew workstations

space habitats toilets

#### Spacelab

laboratories

. space laboratories

. . manned orbital laboratories

. . Spacelab

manned spacecraft

. manned orbital laboratories

. Spacelab

payloads

Space Shuttle payloads

Spacelab

Advanced Technology Laboratory

annular suspension and pointing system

EXPOS (Spacelab payload) geophysical fluid flow cells German Infrared Laboratory Get Away Specials (STS) GRIST (telescope) LIRTS (telescope)

NASA programs OSTA-2 payload

SEPAC (payload) Skylab program space shuttles

space transportation system

spaceborne experiments

#### Spacelab payloads

DEF A general, collective term for the diverse and numerous ESA payloads planned for space experiments.

GS payloads

#### . Spacelab payloads

AMPS (satellite payload)

. . Atmospheric Cloud Physics Lab (Spacelab)

. . Atmospheric General Circulation Experiment

. . geophysical fluid flow cells . . Solar Cell Calibration Facility

RT annular suspension and pointing system

Astro missions (STS) Get Away Specials (STS) sortie systems space station payloads

Spacelab simulation flights

USE Assess program

Spacelab UV-Optical Telescope Facility USE Starlab

#### spacers

bushings dividers fasteners inserts isolators separators spacing washers (spacers)

DEF The transmitting antennas of a solar power satellite transmission system which directs the high-power beam from space to a focus on the rectennas on Earth.

GS antennas

. radio antennas

. . microwave antennas

. . spacetennas

microwave equipment . microwave antennas

. . spacetennas

radio equipment . radio antennas

. . microwave antennas

. . spacetennas

microwave transmission rectennas

## space-time adaptive processing

(added November 2002)
DEF Multidimensional filtering technique that reduces the effects of airborne radar clutter and white noise jamming by using the input from a phased-array antenna to produce an adaptive weight vector which can then be applied to the

signal. STAP (radar) UF GS data processing

. signal processing

. space-time adaptive processing

adaptive filters airborne radar clutter interference immunity jamming radar detection radar filters

surveillance radar

### space-time CE/SE method

(added June 2002)

DEF A numerical framework used for solving conservation laws in continuum mechanics, where both local and global flux conservations are enforced in space and time. The method is characterized by low dispersion errors and low dissipation.

CE/SE method conservation element and solution element

| GS<br>RT           | analysis (mathematics) . numerical analysis space-time CE/SE method aeroacoustics | GS                   | programs . space programs European space programs Spanish space program  | RT                   | machining . spark machining electroforming erosion |
|--------------------|---|----------------------|--|----------------------|--|
|                    | computational fluid dynamics conservation equations                               | RT                   | Spain  |                      | metal cutting piercing                             |
|                    | conservation laws<br>flow equations   | DEF<br>craft co      | ader aircraft Advanced distributed-load cargo air- onfigurations in which the payloads are                       | spark p<br>RT        | ilugs<br>arc generators                            |
|                    | ime continuum<br>relativity   | close m              | ted across the span of the wing for a<br>natch between aerodynamic and inertial<br>for minimal bending stresses. |                      | combustion chambers electric sparks igniters       |
| space-t            | time functions  |                      | transport aircraft   |                      | ignition systems                                   |
| UF<br>GS           | space-time metric functions (mathematics)   |                      | . cargo aircraft   |                      | internal combustion engines                        |
| 63                 | . space-time functions  | RT «                 | spanloader aircraft<br>∞ aircraft  |                      | hadowgraph photography                             |
| RT                 | Minkowski space   |                      | supercritical wings<br>swept wings   | USE<br>sparks        | shadowgraph photography                            |
|                    | naked singularities relativity  | spanwi               | se blowing   | GS                   | sparks   |
|                    | Yang-Mills theory   | GS                   | blowing . spanwise blowing   | RT                   | . electric sparks ignition                         |
|                    | ime metric  | RT                   | cross flow   | Charra               | u 2 missile  |
| USE                | space-time functions  |                      | externally blown flaps   |                      | w 2 missile<br>missiles                            |
| spacew             | ralks   |                      | jet flow<br>lift augmentation  |                      | . air to air missiles                              |
| (add               | ed April 2001)  |                      | pressure distribution  |                      | Sparrow missiles                                   |
| USE                | extravehicular activity   |                      | tangential blowing   | RT                   | Sparrow 2 missile solid propellant rocket engines  |
| spacing            | q   |                      | wing span  |                      |  |
| GS                 | spacing   | SPAR (               | (rocket)   |                      | w 3 missile  |
| DT                 | . aircraft approach spacing   | USE                  | Space Processing Applications  | GS                   | missiles . air to air missiles                     |
| RT                 | altitude control attitude control   |                      | Rocket   |                      | Sparrow missiles                                   |
|                    | clearances  | spare p              | parts  | DT                   | Sparrow 3 missile                                  |
|                    | intervals   | RT «                 | ∞ components   | KI                   | liquid propellant rocket engines                   |
|                    | isolation<br>positioning  |                      | damage assessment downtime   |                      | w missiles   |
| ٥                  | ∞ separation  |                      | engine parts   | GS                   | missiles   |
|                    | spacers   |                      | inventory management   |                      | . air to air missiles Sparrow missiles             |
|                    | thickness   |                      | logistics management maintenance   |                      | Sparrow 2 missile                                  |
| SPADA              | TS (tracking system)  |                      | modules  | DT                   | Sparrow 3 missile                                  |
| USE                | space detection and tracking<br>system  |                      | redundant components retirement for cause  |                      | solid propellant rocket engines                    |
| 0                  |   |                      |  | GS                   | n missile<br>missiles                              |
| <b>Spain</b><br>GS | nations   | spark o              | chambers ionization chambers   |                      | . antimissile missiles                             |
|                    | . Spain   | 00                   | . spark chambers   | RT                   | Spartan missile                                    |
| DT                 | Canary Islands  |                      | measuring instruments  | KI                   | Nike-Zeus missile<br>Sentinel system               |
| RT                 | Andorra<br>Europe   |                      | . counters . radiation counters  |                      | Sprint missile                                     |
|                    | Gibraltar   |                      | spark chambers   |                      | surface to air missiles                            |
|                    | Pyrenees Mountains (Europe)   |                      | . radiation measuring instruments  | Spartan              | satellites   |
|                    | Spanish Sahara<br>Spanish space program   |                      | radiation counters   |                      | artificial satellites                              |
|                    | Spanish space program   | RT                   | spark chambers<br>bubble chambers  |                      | . scientific satellites                            |
| spallati           |   |                      | ∞ chambers   |                      | astronomical satellites Spartan satellites         |
| GS                 | nuclear radiation   |                      | cloud chambers   |                      | observatories                                      |
|                    | . spallation<br>nuclear reactions   |                      | electric sparks<br>neutron counters  |                      | . astronomical observatories                       |
|                    | spallation  |                      | neutron counters   |                      | astronomical satellites Spartan satellites         |
| RT                 | particle production   |                      | lischarges   | RT                   | astrophysics                                       |
| spalling           | g   | USE                  | electric sparks  |                      | solar physics                                      |
| DEF                |   | spark g              | aps  |                      | ultraviolet astronomy                              |
|                    | om a metal.   | GS                   | gaps   | SPAS (I              | ESA platforms)                                     |
| RT                 | chipping<br>flaking   | RT                   | . spark gaps   | USE                  | Shuttle pallet satellites                          |
|                    | fracturing  | KI                   | arc generators dielectrics   | spasms               | •  |
|                    | fragmentation   |                      | electric fields  | GS                   | muscular function                                  |
|                    | wear  |                      | electric sparks  |                      | . spasms   |
|                    | wear tests  |                      | electrical faults<br>multipactor discharges  | RT                   | contraction involuntary actions                    |
| ∞ span             |   |                      | potential gradients  |                      | muscles  |
| SN                 | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                      |                      | trigatrons   |                      |  |
| рт                 | LISTED BELOW)   | spark i              | anition  | <b>spatial</b><br>GS | dependencies<br>dependence                         |
| RT                 | aspect ratio dimensions   | GS                   | ignition   | GS                   | . spatial dependencies                             |
|                    | life span   |                      | . spark ignition   | RT                   | mathematical models                                |
|                    | width   | RT                   | combustion   | 00                   | space  |
|                    | wing span   |                      | electric ignition<br>electric sparks   |                      | time dependence                                    |
| Spanis             | h Sahara  |                      | eudiometers  | spatial              | distribution                                       |
| RT                 | Africa  |                      | machining  | UF                   | Moliere formula                                    |
|                    | nations<br>Spain  | <b>sparк r</b><br>UF | nachining<br>electroerosion  | GS                   | spatial isotropy<br>distribution (property)        |
|                    | -polit  | Oi.                  | electrostatic erosion  | 00                   | . spatial distribution                             |
|                    | h space program   | GS                   | cutting  |                      | horizontal distribution                            |
| (add               | ed March 1989)  |                      | . spark machining  |                      | vertical distribution                              |

. . . star distribution heat budget speckle patterns . geographic distribution ion temperature speckle interferometry anisotropy DEF An imaging process whereby the pation distribution Lewis numbers tern on the image plane of an interferometer is meteoroid concentration melting points the result of interference between two mutually particle density (concentration) neel temperature coherent, but randomly speckled, fields of two, position (location) thermal conductivity satellite constellations thermal resistance lens formed images from laser illuminated, difstereochemistry fusely reflecting surfaces. teleconnections (meteorology) GS interferometry specific impulse temporal distribution speckle interferometry impulses GS specific impulse diffraction patterns Voronoi diagrams Fresnel diffraction mass flow rate Fresnel reflectors spatial filtering propellant mass ratio filtration infrared interferometers propellants isochromatics spatial filtering propulsion system performance aberration laser applications propulsive efficiency attenuation null zones rocket propellants augmentation plasma flux measurement rocket thrust . Sagnac effect blurring thermodynamic efficiency scatter plates (optics) ∞ filters thrust Gabor filters speckle holography total impulse holography speckle patterns images specifications RT diffraction patterns ∞ noise DEF Precise statements or sets of requireholography photographs ments to be satisfied by materials, products, laser outputs photointerpretation systems, or services. light scattering plane waves GS specifications ∞ patterns resolution aircraft specifications speckle holography speckle holography equipment specifications surface roughness effects functional design specifications spatial isotropy aircraft performance spectra USE isotropy commonality UF optical spectrum spatial distribution drawings spectra inspection spatial marching
DEF Techniques for solving partial differential equations that move along in a space direc-. atomic spectra maintenance . continuous spectra ∞ materials tests . energy spectra mechanical properties . . electronic spectra naming . . neutron spectra RT acoustic ducts performance tests duct geometry . mass spectra process control (industry) . molecular spectra numerical analysis procurement . . electronic spectra time marching quality . . Raman spectra quality control . . rotational spectra spatial orientation reliability . vibrational spectra USE attitude (inclination) requirements . noise spectra standardization spatial resolution
DEF The precision with which an optical . oxygen spectra standards . plasma spectra technical writing instrument can produce separable images of different points on an object. . power spectra tolerances (mechanics) . . cepstra user requirements . radiation spectra GS resolution . . absorption spectra . . . Fraunhofer lines spatial resolution specimen geometry atmospheric correction ... Herzberg bands GS geometry high resolution specimen geometry . . . telluric lines image processing . . electromagnetic spectra
. . gamma ray spectra
. . infrared spectra fatigue tests image resolution load tests imaging techniques mechanical properties spectral resolution tensile tests temporal resolution line spectra . . . . Balmer series SPDL specimens D lines RT Mars surface samples USE document markup languages electronic spectra samples Fraunhofer lines species diffusion sampling . . . . H lines GS diffusion . . . . . H alpha line species diffusion speckle holography . . H beta line biological diversity DEF An imaging technique whereby a . . . . . H gamma line evolution (development) speckle pattern results from laser illumination of . . . . K lines genetics a diffusely reflecting surface when interference . . . . Lyman spectra geographic distribution occurs between the fields passing through the Paschen series various portions of lens aperture. Information . . . . Rydberg series about the motion of an object can then be . . . . telluric lines specific gravity USE density (mass/volume) obtained from the imaged fringes resulting from . . . radio spectra the translation of two speckle patterns. . microwave spectra GS imagery Raman spectra DEF The ratio of the heat absorbed (or . photography stellar spectra released) by unit mass of a system to the . . holography . . . . solar spectra corresponding temperature rise (or fall). Used . speckle holography UBV spectra for Debye temperature and heat capacity. imaging techniques ... ultraviolet spectra speckle holography Debye temperature vibrational spectra heat capacity coherent light . . . visible spectrum . . . x ray spectra . . emission spectra GS heat diffraction patterns hologrammetry . specific heat thermodynamic properties holographic interferometry . shock spectra . thermophysical properties image correlators . spectral bands specific heat laser applications . . absorption spectra enthalpy scatter plates (optics) . . . Fraunhofer lines

spatial filtering

speckle interferometry

equipartition theorem

Gruneisen constant

. . . Herzberg bands

. . . telluric lines

. . diffuse interstellar bands fine structure spectrum analysis photoluminescent bands line spectra Schumann-Runge bands spectral response (added August 2000) Swan bands spectral line width USE spectral sensitivity . . Vegard-Kaplan bands bandwidth astronomical spectroscopy GS spectral line width spectral sensitivity color line spectra DEF In electronics, radiant sensitivity conexcitons oscillator strengths sidered as a function of wavelength, or in physflux density gamma ray spectrometers ics, the response of a device or material to isoelectronic sequence monochromatic light as a function of wavespectral lines spectral sensitivity length; also known as spectral response. USE line spectra spectral shift control spectral response spectral theory GS sensitivity spectrograms spectral sensitivity spectral methods spectrographs frequency response computational fluid dynamics differential equations spectrometers instrument errors spectroscopy photothermal conversion ∞ methodology spectrum analysis spectrum analysis transition probabilities spectral shift control DEF Type of reactor moderator control in spectral absorption spectral mixture analysis which the neutron spectrum is intentionally USE absorption spectra (added July 2000) changed. DEF Linear algebraic method for defining RT ∞ control spectral analysis subpixel fractions for each of the spectral endmembers (e.g., ground cover categories) that constitute a mixed-pixel spectral signature.

UF SMA (image analysis)

GS discrimination USE spectrum analysis spectra spectral bands spectral shift control reactor GS nuclear reactors GS spectra spectral bands . liquid cooled reactors spectral mixture analysis . . absorption spectra . . water cooled reactors image analysis
. spectral mixture analysis . Fraunhofer lines . . . pressurized water reactors ... Herzberg bands . . . . spectral shift control reactor spectrum analysis
spectral mixture analysis . telluric lines RT ∞ control . . diffuse interstellar bands RT image processing . . photoluminescent bands spectral signatures pixels Schumann-Runge bands GS signatures principal components analysis . spectral signatures . . Swan bands remote sensing . Vegard-Kaplan bands . microwave signatures spectral reflectance RT band ratioing 
∞ bands RT cepstral analysis chemical analysis chemical composition electronic spectra spectral noise crop identification energy bands USE white noise emission spectra frequencies line spectra identifying optical measurement visible spectrum spectral reconnaissance spectrum analysis white noise GS reconnaissance spectral reconnaissance spectral theory RT Lyman spectra spectral correlation Earth resources GS correlation electromagnetic spectra spectra spectral correlation multispectral band scanners ∞ theories electromagnetic spectra multispectral photography spectrophotography multispectral radar spectrograms RT line spectra photoreconnaissance spectral counterparts (astronomy) radar photography (added August 2005)
DEF Corresponding radiation sources of different spectral regions that are believed to be spectra satellite-borne photography spectral emission spectrophotography spectrographs spectrophotography associated with the same astronomical object. spectroscopy spectrum analysis gamma ray sources (astronomy) spectral reflectance radiation sources The ratio of the reflected flux to the radio sources (astronomy) spectrally homogeneous incident flux. Swift observatory electromagnetic properties spectrographs x ray sources . optical properties GS spectrographs high dispersion spectrographs . . reflectance spectral emission . . . spectral reflectance spectra GS emission surface properties spectrograms spectral emission spectral reflectance spectrometers continuous spectra bidirectional reflectance spectroscopic analysis electromagnetic radiation imaging spectrometers spectroscopy emittance leaf area index incandescence spectroheliographs plant stress light emission spectral mixture analysis DEF Instruments for taking photographs line spectra spectrometers (spectroheliograms) of the image of the sun in nongray gas spectroscopy monochromatic light. The wavelength of light radiation spectrum analysis chosen for this purpose corresponds to one of spectrograms vegetative index the Fraunhofer lines, usually the light of hydrogen or ionized calcium. Used for heliographs, spectroscopy spectrum analysis heliography, and spectrohelioscopes. heliographs spontaneous emission spectral resolution ultraviolet emission GS resolution heliography . spectral resolution spectrohelioscopes wavelengths analog computers GS imagery spectral energy distribution GS distribution (property) Landsat 6 . spectroheliographs

Landsat 7

Q factors

line spectra

radar resolution

spatial resolution

radiometric resolution

measuring instruments
. radiation measuring instruments

. . actinometers

. spectrometers

. . . spectroheliographs

. . spectroheliographs

. energy distribution

energy spectra

electromagnetic radiation

RT ∞ distribution

. spectral energy distribution

optical equipment RT chemical analysis x ray spectroscopy spectroheliographs duochromators spectroscopic telescopes solar instruments monochromators diffraction telescopes spectroheliographs optical measurement GS telescopes black and white photography photometers . spectroscopic telescopes coronagraphs radiometers . . multispectral tracking telescopes . . stratoscope telescopes solar spectrometers spectroradiometers Starsat telescope spectroscopic analysis astronomical spectroscopy reflecting telescopes spectroscopy spectrohelioscopes USE spectroheliographs refracting telescopes spectrophotometry stellar spectrophotometry optical measurement spectrometers . photometry spectroscopy spectroscopes . . spectrophotometry spectrometry spectroscopy GS measuring instruments UF . . stellar spectrophotometry GS . spectrometers . absorption spectroscopy
. optogalvanic spectroscopy
. astronomical spectroscopy
. stellar spectrophotometry spectroscopy Ebert spectrometers spectrophotometry . . Fabry-Perot spectrometers stellar spectrophotometry . . gamma ray spectrometers astronomical photometry imaging spectrometers colorimetry . Auger spectroscopy . auroral spectroscopy . . infrared spectrometers imaging spectrometers . filter wheel infrared spectrometers spectroscopic analysis electron spectroscopy laser spectrometers . . mass spectrometers flame spectroscopy spectrophotovoltaics
DEF The enhancement of solar cell productivity by concentrating and subdividing the sunlight spectrum and focusing on specific spec-. . microwave spectrometers gas spectroscopy neutron spectrometers holographic spectroscopy . . Solar Backscatter UV infrared spectroscopy Spectrometer ion mobility spectroscopy . . solar spectrometers . laser-induced breakdown trum efficient solar cells. . . spectroheliographs spectroscopy energy conversion efficiency . . time of flight spectrometers . magnetic spectroscopy energy spectra . . ultraviolet spectrometers . . magnetic resonance spectroscopy solar cells mass spectroscopy
 inductively coupled plasma mass ... high dispersion spectrographs solar collectors ... Total Ozone Mapping Spectrometer spectrometry spectropolarimeters . . Alpha Magnetic Spectrometer . . secondary ion mass spectrometry USE polarimeters . . x ray spectrometers actinometers . molecular spectroscopy . . Raman spectroscopy chemical analysis diffractometers electron probes goniometers . nuclear radiation spectroscopy spectroradiometers . optical emission spectroscopy GS measuring instruments . . laser spectroscopy . radiation measuring instruments . . . optogalvanic spectroscopy . photoacoustic spectroscopy . . actinometers infrared spectroscopy
Michelson interferometers
optical equipment . . . radiometers photoacoustic spectroscopy
 photoelectron spectroscopy
 radio spectroscopy . . . spectroradiometers ..... MISR (radiometry) radio spectroscopy
spectrophotography
spectrophotometry
stellar spectrophotometry
photothermal deflection
spectroscopy
spectroscopic analysis
ultrasonic spectroscopy
ultraviolet spectroscopy optical measurement .... MODIS (radiometry) photogoniometers photographic measurement spectrometers spectrophotometers photometers radiation counters spectroscopes solar instruments USE spectrometers spectra spectral reflectance spectroscopic analysis

SN (FOR SPECTROSCOPIC TOOLS IN CHEMICAL ANALYSIS)

GS chemical tests
. chemical analysis . vacuum spectroscopy spectrographs . x ray spectroscopy RT chemical analysis spectroradiometers spectroscopic analysis spectroscopy cinespectrographs spectrum analysis colorimetry . spectroscopic analysis electrophotometry spectroscopic analysis
spectroscopy
spectroscopy
auroral spectroscopy
electrophotometry
flame spectroscopy
Fraunhofer line discriminators
as spectroscopy spectrometry Fraunhofer line discriminators USE spectroscopy isoelectronic sequence Lallemand cameras spectrophotography ∞ optics imagery . photometry . photography pressure broadening spectrophotography spectra gas spectroscopy inductively coupled plasma mass spectroscopy spectral emission spectrophotography spectral reflectance black and white photography spectrometry spectrograms ground truth infrared spectroscopy spectrographs spectral correlation laser spectroscopy spectrometers laser-induced breakdown spectral reconnaissance spectrophotometers spectroscopy spectrum analysis spectrograms magnetic spectroscopy time of flight spectrometers visible spectrum
x ray spectrometers
Zeeman effect spectrophotometers mass spectroscopy GS measuring instruments metallicity . optical measuring instruments microanalysis . . spectrophotometers molecular spectroscopy ... infrared spectrophotometers neutron activation analysis spectrum analysis ... ultraviolet spectrophotometers nuclear radiation spectroscopy spectral analysis . radiation measuring instruments photoelectron spectroscopy spectrum analysis . . actinometers qualitative analysis . cepstral analysis quantitative analysis flame spectroscopy ... spectrophotometers . . . infrared spectrophotometers Raman spectroscopy . maximum entropy method ultraviolet spectrophotometers spectrographs spectral mixture analysis optical equipment spectrometers RT absorption spectra . optical measuring instruments
. . spectrophotometers ∞ analyzing

spectrophotometers

ultraviolet spectroscopy

vacuum spectroscopy

spectrophotometry

. infrared spectrophotometers

... ultraviolet spectrophotometers

emission spectra

frequency analyzers frequency scanning

gamma ray spectrometers holographic spectroscopy hyperfine structure Kramers-Kronig formula laser spectroscopy line spectra magnetic resonance optical resonance signal analysis spectra spectral emission spectral methods spectral reflectance spectral resolution spectral signatures spectrograms spectrometers spectroscopy Stark effect toroidal discharge ultrasonic spectroscopy ultraviolet spectroscopy Zeeman effect

### specular reflection

DEF Reflection in which the reflected radiation is not diffused; reflection as from a mirror. reflection

GS

specular reflection

RT diffuse radiation etalons glare mirrors

#### speech

#### GS speech

. articulation (speech)

. conversation

. phonemes . phonetics

. talking

RT acoustics

auditory perception consonants (speech)

English language

languages lectures linguistics

phonemics public speaking . semantics

sentences svntax voice

voice communication words (language)

#### speech baseband compression

Technique for reducing the bandwidth required to represent the human voice waveform.

GS compressing

speech baseband compression

bandwidth vocoders voice communication waveforms

speech defects

defects

speech defects

articulation (speech) phonemics phonetics

speech discrimination

USE speech recognition

#### speech recognition

speech discrimination GS

intelligibility

speech recognition

recognition

speech recognition

cepstral analysis linguistics phonemes phonemics phonemics phonetics sensory discrimination voice control

speeches

USE lectures

speed USE

velocity

#### speed control

speed regulation UF RT automatic control ∞ control control equipment controllers engine control helicopter control

manual control

speed indicators

UF Preston tubes speedometers GS display devices . speed indicators

regulators

. . tachometers

measuring instruments

. indicating instruments

.. speed indicators . . tachometers

accelerometers aircraft instruments anemometers approach indicators

flight instruments flowmeters landing instruments

pitot tubes velocity measurement

speed regulation

USF speed control

#### speed regulators

governors GS control equipment . regulators

. speed regulators controllers engines

speedometers

USE speed indicators

#### spent fuels

DEF Nuclear reactor fuels irradiated to the extent that they no longer can effectively sustain a chain reaction.

GS fuels

. nuclear fuels

. . spent fuels fuel capsules RT

neutron sources nuclear energy

nuclear fuel reprocessing reactor materials recycling

spermatocytes

USE gametocytes

#### spermatogenesis

RT abiogenesis gametocytes spermatozoa

#### spermatozoa

GS cells (biology) . gametocytes

. spermatozoa fertilization spermatogenesis zygotes

#### Spert reactors

GS nuclear reactors

. liquid cooled reactors

. . water cooled reactors ... boiling water reactors

. . . . Spert reactors

. nuclear research and test reactors

. . Spert reactors

SPF (materials)

USE superplastic forming

sphalerite

USE zincblende

#### spheres

GS symmetrical bodies . bodies of revolution

. . spheres

. . . celestial sphere . . . concentric spheres falling spheres

... Poincare spheres . . rotating spheres

aerodynamic configurations

asphericity balls

circles (geometry)

Euclidean geometry geometry

∞ globes globules

∞ hemispheres hemispherical shells microballoons nodules ogives spherical shells

spheroids spherules

### spherical antennas

GS antennas

. spherical antennas

communication equipment electronic equipment

spherical caps
GS shells (structural forms)

. spherical shells

... spherical caps RT ∞ caps

coverings nose cones seals (stoppers)

## spherical coordinates

DEF A system of curvilinear coordinates in which the position of a point in space is designated by its distance from the origin or pole (the radius vector), the angle phi between the radius vector and a vertically directed polar axis (the cone angle or coaltitude) and the angle theta between the plane of the phi and a fixed meridian plane through the polar axis (the polar angle or longitude). Used for curvilinear coordinates.

curvilinear coordinates UF

GS coordinates

#### spherical coordinates

astronomical coordinates celestial reference systems geocentric coordinates planetocentric coordinates polar coordinates position (location) ∞ reference systems

#### spherical harmonics

GS analysis (mathematics)

. complex variables . spherical harmonics

functions (mathematics) spherical harmonics harmonics

spherical harmonics

Legendre functions

#### spherical plasmas

DEF Confined circular plasmas.

particles

. charged particles

. . energetic particles

... plasmas (physics) spherical plasmas

. corpuscular radiation

. . energetic particles

. . . plasmas (physics)

|               | spherical plasmas                                     |          | space plasmas  |          | yo-yo devices                             |
|---------------|---|----------|--|----------|---|
| anharia       | al aballa   | enhvan   | nography   | onin de  | coupling                                  |
|               | al shells   | RT       | arteries   | GS       |   |
| GS            | shells (structural forms)                             | IXI      | bioinstrumentation                                   | GS       | . spin decoupling                         |
|               | . spherical shells                                    |          |  | рт       |   |
| DT            | spherical caps  |          | blood pressure                                       | RT       | photomagnetic effects                     |
| RT            | bodies of revolution                                  | ~        | heart rate  o measurement                            | enin dy  | namics                                    |
|               | circular shells                                       | ~        | recording instruments                                |          | aircraft spin                             |
|               | hemispherical shells                                  |          | recording instruments                                | IXI      | artificial gravity                        |
|               | metal shells  | spicule  | s  |          | dynamic tests                             |
|               | reinforced shells                                     | DEF      | Bright spikes extending into the chro-               |          | o dynamics                                |
|               | rotating spheres                                      |          | e of the sun from below.                             | Ĭ        | electron spin                             |
|               | spheres<br>stressed-skin structures                   | GS       | stellar activity                                     |          | gyration                                  |
|               | thin walled shells                                    | 00       | . solar activity                                     |          | lunar rotation                            |
|               | triiri waiieu srielis                                 |          | spicules   |          | rotating matter                           |
| onhorio       | al tanks  | RT       | chromosphere   |          | rotating matter                           |
| GS            |   |          | photosphere  | spin ex  | change                                    |
| GS            | tanks (containers)                                    |          | solar atmosphere                                     | GS       |   |
| RT            | . spherical tanks<br>fuel tanks                       |          | colar almosphoro                                     |          | . spin exchange                           |
| IXI           | pressure vessels                                      | spiders  |  | RT       | resonance charge exchange                 |
|               | propellant tanks                                      | GS       | animals  |          | g-  |
|               | · ·   |          | . invertebrates                                      | spin for | aina                                      |
|               | storage tanks   |          | arthropods   | USE      |   |
| enhorio       | al waves  |          | spiders  |          |   |
| RT            | cylindrical waves                                     |          |  | spin gl  | ass                                       |
| IXI           | diffraction paths                                     | spike ar | ntennas  | DEF      | A magnetic alloy in which the concen-     |
|               | diffraction propagation                               |          | monopole antennas                                    |          | of magnetic atoms is such that below a    |
|               |   |          |  |          | temperature their magnetic moments are    |
|               | elastic waves   | spike n  | ozzles   |          | er able to fluctuate thermally in time bu |
|               | electromagnetic radiation Huygens principle           |          | exhaust nozzles                                      |          | directed at random in loose analogy to    |
|               |   |          | . spike nozzles                                      |          | ns of ordinary glass.                     |
|               | plane waves   | RT       | aerospike engines                                    | GS       | glass                                     |
|               | point sources<br>three dimensional flow               |          | conical nozzles                                      |          | . spin glass                              |
|               |   |          | nozzle geometry                                      | RT       | amorphous materials                       |
| ٥             | ∘ waves   | ۰        | ∘ nozzles  |          | magnetic properties                       |
|               | ida.  |          | plug nozzles   |          | metallic glasses                          |
| sphero<br>DEF |   |          | rocket nozzles                                       |          | spin-lattice relaxation                   |
|               | Ellipsoids; figure resembling spheres.                | •        | ∘ spikes   |          | superconductivity                         |
| GS            | geometry  |          | i -  |          | oup or corrudourny                        |
|               | . Euclidean geometry                                  | spike p  | otentials  | spin re  | duction                                   |
|               | analytic geometry                                     | GS       | potential energy                                     | UF       |   |
|               | spheroids   |          | . electric potential                                 | 0.       | jet damping                               |
|               | oblate spheroids                                      |          | spike potentials                                     | GS       | rates (per time)                          |
| DT            | prolate spheroids                                     | RT       | bioelectricity                                       | 00       | . acceleration (physics)                  |
| RT            | falling spheres                                       |          | depolarization                                       |          | deceleration                              |
|               | geoids  | ۰        | ∘ spikes   |          | spin reduction                            |
|               | spheres   |          | i -  | RT       | angular acceleration                      |
|               |   | ∞ spikes |  | 101      | destabilization                           |
| sphero        |   | SN       | (USE OF A MORE SPECIFIC TERM IS                      |          | gravity gradient satellites               |
| DEF           | Toroidal fusion reactors.                             |          | RECOMMENDEDCONSULT THE TERMS                         |          | ∘ reduction                               |
| GS            | nuclear reactors                                      | RT       | LISTED BELOW)  | Ŭ        | satellite rotation                        |
|               | . fusion reactors                                     | KI       | fasteners  |          | yo-yo devices                             |
| БТ            | spheromaks  |          | holders  |          | yo yo devices                             |
| RT            | dense plasmas   |          | monopole antennas                                    | enin ra  | sonance                                   |
|               | magnetic field configurations                         |          | pins   | GS       | resonance                                 |
|               | magnetic mirrors                                      |          | spike nozzles  | 00       | . spin resonance                          |
|               | plasma control  |          | spike potentials spikes (aerodynamic configurations) | RT       | nuclear magnetic resonance                |
|               | plasma currents                                       |          | spikes (aerodynamic comigurations)                   | 101      | particle spin                             |
| ٥             | o reactors  | enikos   | (acrodynamic configurations)                         |          | particle spiri                            |
|               | tokamak devices                                       |          | (aerodynamic configurations)                         | enin et  | abilization                               |
|               | toroidal plasmas                                      | KI •     | <ul><li>spikes</li><li>wind tunnels</li></ul>        | DEF      |   |
|               | 1   |          | WING CONTROLS  |          | by the action of gyroscopic forces which  |
| spheru        |   | spiking  |  |          | om spinning the body about its axis o     |
| GS            | spherules   | RT       | electron beam welding                                | symmet   |   |
| DT            | . spherulites   | 13.1     | melting  | GS       | stabilization                             |
| RT            | crystals  |          | metal cutting  | 00       | . spin stabilization                      |
|               | spheres   |          | motal catting  | RT       |   |
|               | litaa   | spilling |  | 101      | coning motion                             |
| spheru        |   | RT       | dumping  |          | dual spin spacecraft                      |
| GS            | crystals  | 111      | emptying   |          | missiles                                  |
|               | . crystallites  |          | jettisoning  |          | OV-1 satellites                           |
|               | spherulites   |          | oil slicks   |          | OV-2 satellites                           |
|               | spherules   |          | releasing  |          | OV-3 satellites                           |
| DT            | . spherulites   |          | spreading  |          | OV-4 satellites                           |
| RT            | crystal structure                                     |          | oproduing  |          | OV-5 satellites                           |
|               | microcrystals   | spin     |  |          | satellite orientation                     |
|               | microstructure  | GS       | spin   |          | satellite rotation                        |
|               | nodules   | 00       | . metal spinning                                     |          | Space Shuttle upper stage D               |
|               | rosette shapes  |          | hydrospinning  |          | space stations                            |
| 0.01          | ,   |          | . particle spin                                      | _        | •   |
| SPHIN         |   |          | electron spin  | c        | o spinners                                |
| SN            | (SPACE PLASMA HIGH VOLTAGE                            |          | isotopic spin  | enin to  | mperature                                 |
| UF            | INTERACTION EXPERIMENTS) space plasma H/V interaction |          | nuclear spin   | SN       | (LIMITED TO ASTROPHYSICS)                 |
| 01            | experiments   |          | . spin-orbit interactions                            | GS       | temperature                               |
| RT            | NASA programs   |          | electron capture                                     |          | . spin temperature                        |
| 131           | plasma interaction experiment                         |          | . spin-spin coupling                                 | RT       | absorption spectra                        |
|               | plasma-particle interactions                          | RT       | angular momentum                                     | 13.1     | astrophysics                              |
|               | plasmas (physics)                                     | 13.1     | nuclear capture                                      |          | hydrogen clouds                           |
| _             | plasmas (physics)<br>∘ research projects              | _        | o spinners   |          | interstellar gas                          |
|               | . Sesaron projecto                                    |          | Sp11010  |          | orotonar gao                              |

|          | interstellar matter                      |          | spin stabilization                         |           | Tully-Fisher relation Virgo galactic cluster |
|----------|--|----------|--|-----------|--|
| spin te  | sts                                      | spinnin  | g (metallurgy)                             |           | virgo galactic ciustei                       |
| UF       | whirling tests                           | USE      | metal spinning                             | spiral v  | vrapping                                     |
| RT       | angular momentum                         |          |  | RT        | composite materials                          |
|          | dynamic tests                            | spinnir  | ng solid upper stage                       |           | composite wrapping                           |
|          | environmental tests                      | DEF      | Space Shuttle upper stage designed         |           | isotensoid structures                        |
|          | load tests                               |          | ching of satellites not requiring the full |           | packaging                                    |
|          |  |          | y of the interim upper stage; does not     |           | ∘ spirals                                    |
|          | polarization (spin alignment)            |          | s inertial guidance system nor three-axis  | · ·       |  |
| ۰        | • tests                                  |          |  |           | winding                                      |
|          | whirl towers                             |          | ation; can handle payloads of the class    |           |  |
|          |  |          | inched by Delta or Atlas/ Centaur.         | ∞ spirals |  |
| spin wa  | ves                                      | GS       | Space Shuttle upper stages                 | SN        | (USE OF A MORE SPECIFIC TERM IS              |
| USE      | magnons                                  |          | spinning solid upper stage                 |           | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   |
|          | 3  | RT       | booster rocket engines                     | RT        | curves (geometry)                            |
| eninacl  |  |          | upper stage rocket engines                 |           | ∘ helices                                    |
| spinach  |  |          |  |           | spiral wrapping                              |
| GS       | farm crops                               | spinnir  | ng unguided rocket trajectory              |           | spirals (concentrators)                      |
|          | . spinach                                | UF       | SPURT (trajectories)                       |           | spirals (concentrators)                      |
|          | plants (botany)                          | GS       | trajectories                               | onirolo   | (concentrators)                              |
|          | spinach                                  |          | . spinning unguided rocket                 |           | (concentrators)                              |
|          | vegetables                               |          | trajectory                                 | GS        | concentrators                                |
|          | . spinach                                | RT       | equations of motion                        |           | . spirals (concentrators)                    |
| RT 。     | ∘ food                                   | 131      | missile trajectories                       |           | separators                                   |
|          |  |          |  |           | . spirals (concentrators)                    |
| spinal o | cord                                     |          | rotating bodies                            | RT        | classifiers                                  |
|          | anatomy                                  |          | symmetrical bodies                         | ۰         | ∘ spirals                                    |
| 00       | *  |          |  |           | '  |
|          | . nervous system                         |          | groups                                     | spirom    | eters  |
|          | central nervous system                   | GS       | algebra                                    | RT        | heart minute volume                          |
|          | spinal cord                              |          | . lie groups                               | 131       | lungs  |
| RT       | bones                                    |          | spinor groups                              |           | <u> </u>                                     |
|          | brain                                    |          | geometry                                   |           | respiratory rate                             |
|          | neuroglia                                |          | . differential geometry                    | 0.24.1    | (A1  |
|          | spinal cord injuries                     |          | lie groups                                 |           | ergen (Norway)                               |
|          | spine                                    |          |  | RT        | archipelagoes                                |
|          | Sps                                      |          | spinor groups                              |           | Arctic Ocean                                 |
|          | cord injuries                            | !        | hit internations                           |           | ocean currents                               |
|          | •  | •        | bit interactions                           |           |  |
|          | ed August 2004)                          | GS       | nuclear reactions                          | Spitzer   | Space Telescope                              |
|          | Penetrating and non-penetrating inju-    |          | . nuclear interactions                     | (add      | ed December 2003)                            |
|          | the spinal cord resulting from traumatic |          | spin-orbit interactions                    | USE       | Space Infrared Telescope Facility            |
|          | forces.                                  |          | electron capture                           |           | , ,  |
| GS       | injuries                                 |          | particle interactions                      | splashi   | na   |
|          | . spinal cord injuries                   |          | . nuclear interactions                     | UF        | swash  |
| RT       | back injuries                            |          | spin-orbit interactions                    | RT        | agitation                                    |
|          | spinal cord                              |          | electron capture                           | 13.1      | surface waves                                |
|          | spine                                    |          | spin                                       |           |  |
|          | whiplash injuries                        |          | . spin-orbit interactions                  |           | ullage                                       |
|          | Wilplasti Injunes                        |          | •  |           | water landing                                |
| !!! .    |  | DT       | electron capture                           |           |  |
| spindle  |  | KI       | ∞ interactions                             | spleen    |  |
| RT       | shafts (machine elements)                |          | Annual Property                            | GS        | anatomy                                      |
|          | spools                                   |          | oin coupling                               |           | . immune systems                             |
|          | winding                                  | GS       | coupling                                   |           | lymphatic system                             |
|          |  |          | . spin-spin coupling                       |           | spleen                                       |
| spine    |  |          | spin                                       | RT        | polycythemia                                 |
| UF       | vertebral column                         |          | . spin-spin coupling                       |           | 1 - 7 - 7                                    |
| GS.      | anatomy                                  | RT       | couples                                    | splicing  | 7  |
| 00       | . musculoskeletal system                 |          | cross relaxation                           | `         | fasteners                                    |
|          | · · · · · · · · · · · · · · · · · · ·    |          |  |           | o joining                                    |
|          | bones                                    | sniral a | ntennas                                    |           |  |
|          | spine                                    | GS       | antennas                                   | ۰         | ∞ tapes                                      |
|          | vertebrae                                | GS       |  |           | wiring                                       |
| RT       | sciatic region                           |          | spiral antennas                            |           |  |
|          | spinal cord                              |          | log spiral antennas                        |           | functions                                    |
|          | spinal cord injuries                     | RT       | antenna design                             | GS        | functions (mathematics)                      |
|          |  |          | broadband                                  |           | . spline functions                           |
| spinel   |  |          | telemetry                                  | RT        | approximation                                |
| GS       | minerals                                 |          |  |           | matrix methods                               |
| 00       | . spinel                                 | spiral b | pevel gears                                |           |  |
| RT       | aluminates                               | (add     | led May 1999)                              | splines   |  |
| ΚI       |  | ĠS       | gears                                      | RT        | couplings                                    |
|          | ferrites                                 |          | . bevel gears                              | 111       | fasteners                                    |
|          | igneous rocks                            |          | spiral bevel gears                         |           | holders                                      |
|          |  |          | spirar bever gears                         |           | noiders                                      |
| spin-lat | tice relaxation                          | aniral a | valavias                                   | anlinta   |  |
| GS       | magnetic properties                      |          | galaxies                                   | splints   | h  |
|          | . magnetic relaxation                    | GS       | celestial bodies                           | RT        | bones  |
|          | spin-lattice relaxation                  |          | . galaxies                                 |           | casts  |
|          | relaxation (mechanics)                   |          | spiral galaxies                            |           | first aid                                    |
|          | . spin-lattice relaxation                |          | Andromeda Galaxy                           |           |  |
| RT       | lattice vibrations                       |          | barred galaxies                            | split fla | ıps  |
| IXI      |  |          | Milky Way Galaxy                           | GS        | airfoils                                     |
|          | nuclear magnetic resonance               | RT       | corotation                                 |           | . flaps (control surfaces)                   |
|          | relaxation time                          |          | density wave model                         |           | split flaps                                  |
|          | spin glass                               |          | disk galaxies                              |           | brakes (for arresting motion)                |
|          |  |          |  |           |  |
| spinne   | rs                                       |          | elliptical galaxies                        |           | . aerodynamic brakes                         |
| SN       | (USE OF A MORE SPECIFIC TERM IS          |          | galactic bulge                             |           | split flaps                                  |
| OIN      | RECOMMENDEDCONSULT THE TERMS             |          | galactic halos                             |           | . aircraft brakes                            |
|          | LISTED BELOW)                            |          | local group (astronomy)                    |           | split flaps                                  |
| RT       | antenna components                       |          | Maffei galaxies                            |           | control surfaces                             |
|          | fairings                                 |          | peculiar galaxies                          |           | . flaps (control surfaces)                   |
|          | slewing                                  |          | ring galaxies                              |           | split flaps                                  |
|          | spin                                     |          | Seyfert galaxies                           |           | drag devices                                 |
|          | op                                       |          | Sojion galanios                            |           | a. ag ao 11000                               |

. aerodynamic brakes self ignition soil mapping . split flaps GS combustion stereophotography spontaneous combustion jet flaps combustion temperature leading edge slats RT spot welds trailing edge flaps GS joints (junctions) explosions wing flaps . metal joints fire point . . welded joints fire prevention splits (geology) flammability .. spot welds USE geological faults flash point RT arc welding beads fuel combustion splitting electric welding hazards GS splitting fusion welding hypergolic rocket propellants flux difference splitting pressure welding ignition . flux vector splitting ultrasonic welding ignition temperature water splitting propellant sensitivity chipping spray characteristics pyrophoric materials cutting RT ∞ characteristics fission sprayers spontaneous emission flaking spraying emission GS fracturing spontaneous emission atomic energy levels laser cutting spray condensers jet condensers ∞ separation electromagnetic radiation slicing sprayers emission spectra spectral emission spray ingestion spodumene gas turbines GS aluminum compounds spools . spodumene landing gear RT ∞ containers chalcogenides salt spray tests inserts . oxides magazines (supply chambers) . . silicon oxides spray nozzles reels . spodumene RT annular nozzles spindles conical nozzles lithium compounds spodumene fuel injection sporadic E layer fuel systems minerals GS Earth atmosphere injectors . spodumene upper atmosphere silicon compounds ∞ nozzles . . Earth ionosphere . silicates orifices ... E region . . sodium silicates sprayers .... sporadic E layer . spodumene regions sprayed coatings . silicon oxides . E region sprayed protective coatings . spodumene sporadic E layer GS coatings sodium compounds E-1 layer . sprayed coatings . sodium silicates E-2 layer ceramic coatings . . spodumene midlatitude atmosphere finishes HVOF thermal spraying spoiler slot ailerons sporadic meteoroids (METEOROIDS NOT ASSOCIATED WITH A METEOROID SHOWER OR STREAM) celestial bodies lacquers GS airfoils metal coatings . ailerons . spoiler slot ailerons paints . meteoroids plasma spraying control surfaces . sporadic meteoroids plastic coatings . ailerons primers (coatings) RT meteor trails . spoiler slot ailerons RT meteoroid concentration protective coatings spoilers varnishes spores spoilers DFF The reproductive elements of the lower DEF Plates, series of plates, combs, tubes, sprayed protective coatings USE protective coatings forms of living organisms, usually unicellular. bars, or other devices that project into the airspores GS sprayed coatings stream about bodies to break up or spoil the smoothness of the flow, especially such devices . microspores that project from the upper surface of an airfoil, RT biological weapons sprayers UF spraying apparatus giving increased drag and decreased lift. fungi airfoils microorganisms sprays atomizers . spoilers plants (botany) control surfaces protozoa blowers colloidal generators . spoilers tetrad theory drag devices contactors spoilers sports medicine ∞ containers GS medical science ∞ diffusers aerodynamic brakes boundary layer control . sports medicine dispensers aerospace medicine distributors deflectors athletes drops (liquids) flaps (control surfaces) clinical medicine ejectors gust alleviators exercise physiology fuel sprays leading edge slats physical fitness spoiler slot ailerons ∞ jets physiological effects materials handling vortex alleviation mixers wings SPOT (French satellite) ∞ nozzles DEF French satellite with high visible resopropellant sprays spokes lution for observations of the Earth. It was spray characteristics hubs RT launched in February 1986. The acronym is spray condensers wheels derived from the French, Satellite Pour Obserspray nozzles vation de le Terre. spraying sponges (materials) (ORGANIC OPEN-CELL STRUCTURES) elastomers artificial satellites vaporizers . French satellites . SPOT (French satellite) spraying materials polyurethane foam crop identification GS spraying Earth observations (from space) porous materials . arc spraying Earth resources . crop dusting . flame spraying

land use

mapping

spontaneous combustion

autoignition

. . HVOF thermal spraying

|               | . metal spraying  | GS             | computer programs  |                   | cloud-to-ground discharges                           |
|---------------|---|----------------|--|-------------------|--|
|               | . plasma spraying   |                | . applications programs (computers)  |                   | elves  |
| RT            | aeration  | DT             | spreadsheets   |                   | lightning  |
|               | aerosols  | RT             | computer techniques  |                   | thunderstorms  |
|               | atomizing<br>blowing  |                | tables (data)  | SPUR (            | reactors)  |
|               | coating   | spring         | (season)   |                   | space power unit reactors                            |
|               | coatings  | DEF            |  |                   | •  |
|               | diffusion   |                | mmer. Its beginning is the vernal equinox  |                   | (trajectories)                                       |
|               | dispersing  | and its<br>GS  | end the summer solstice.   | USE               | spinning unguided rocket                             |
|               | entrainment forming techniques  | GS             | seasons . spring (season)  |                   | trajectory   |
|               | fumigation  | RT             | autumn   | Sputnik           | 1 satellite  |
|               | liquid atomization  |                | summer   | GS                | artificial satellites                                |
|               | metallizing   |                | winter   |                   | . meteorological satellites                          |
|               | mixing  | onrina         | c (clastic)  |                   | Sputnik 1 satellite . Soviet satellites              |
|               | premixing sealing   |                | s (elastic)<br>∞ coils   |                   | Sputnik satellites                                   |
|               | spray characteristics   |                | energy storage   |                   | Sputnik 1 satellite                                  |
|               | sprayers  |                | frames   |                   | Soviet spacecraft                                    |
|               | sprinkling  |                | oscillation dampers  |                   | . Sputnik satellites                                 |
|               | vaporizing  |                | oscillations<br>resilience   |                   | Sputnik 1 satellite                                  |
|               | wetting   |                | shock absorbers  | Sputnik           | 2 satellite  |
| spraying      | g apparatus   |                | suspension systems (vehicles)  | GS                | artificial satellites                                |
| USE           | sprayers  |                | vibration isolators  |                   | . biosatellites                                      |
|               |   |                | - (material)   |                   | Sputnik 2 satellite                                  |
| sprays<br>USE | oprovoro  | spring<br>DEF  | s (water) Places where ground water flows natu-                                      |                   | . meteorological satellites Sputnik 2 satellite      |
| USE           | sprayers  |                | om rocks onto the land surface or into a   |                   | . Soviet satellites                                  |
| spread        | F   |                | of surface water. Their occurrence de-   |                   | Sputnik satellites                                   |
| RT            | F 2 region  | pends          | on the nature and relationship of rocks,   |                   | Sputnik 2 satellite                                  |
|               | ionospheric storms  |                | ally permeable and impermeable strata,   |                   | Soviet spacecraft                                    |
|               | magnetic storms   | on the topogra | position of the water table, and on the  |                   | Sputnik satellites     Sputnik 2 satellite           |
| spread        | reflection  | GS             | resources  |                   | Opulink 2 Salenite                                   |
| DEF           | Reflection of electromagnetic radiation                                       | 00             | . Earth resources  | Sputnik           | 3 satellite  |
|               | rough surface with large irregularities.                                      |                | springs (water)  | GS                | artificial satellites                                |
|               | own as mixed reflection.  |                | water  |                   | . geophysical satellites                             |
| GS            | reflection . spread reflection  | RT             | . <b>springs (water)</b><br>aquifers   |                   | . Sputnik 3 satellite<br>. meteorological satellites |
| RT            | glare   | 111            | fresh water  |                   | Sputnik 3 satellite                                  |
|               | infrared reflection   |                | ground water   |                   | Soviet satellites                                    |
|               | optical reflection  |                | inland waters  |                   | Sputnik satellites                                   |
|               | scattering  |                | lakes  |                   | Sputnik 3 satellite                                  |
|               | signal reflection<br>ultraviolet reflection                                   |                | Oases  |                   | Soviet spacecraft . Sputnik satellites               |
|               | wave reflection   |                | potable water water tables   |                   | Sputnik 3 satellite                                  |
|               | nave reneemen   |                | wells  |                   |  |
|               | spectrum transmission   |                |  | •                 | 4 satellite  |
|               | Communications technique with many  | sprink         |  | GS                | artificial satellites . Soviet satellites            |
|               | signal waveforms transmitted in a wide ower is spread thinly over the band so | RT             | scattering<br>spraying   |                   | . Sputnik satellites                                 |
|               | row-band radios can operate within the  |                | wetting  |                   | Sputnik 4 satellite                                  |
| band wi       | thout interference.   |                |  |                   | Soviet spacecraft                                    |
| GS            | transmission  |                | missile  |                   | . Sputnik satellites                                 |
|               | . electromagnetic wave transmission   | GS             | missiles   |                   | Sputnik 4 satellite                                  |
|               | radio transmission spread spectrum transmission                               |                | . antimissile missiles Sprint missile  | Sputnik           | 5 satellite  |
|               | . signal transmission   |                | . surface to air missiles  | GS                | artificial satellites                                |
|               | radio transmission  |                | Sprint missile   |                   | . Soviet satellites                                  |
|               | spread spectrum transmission  | RT             | Nike-Zeus missile  |                   | . Sputnik satellites                                 |
| RT            | communication frequency hopping   |                | Sentinel system solid propellant rocket engines                                      |                   | Sputnik 5 satellite Soviet spacecraft                |
|               | nequency nopping  |                | Spartan missile  |                   | . Sputnik satellites                                 |
| spreadi       | ng  |                | oparian moone  |                   | Sputnik 5 satellite                                  |
| RT            | adhesion  |                | E detectors  | RT                | Venus probes   |
|               | cohesion<br>diffusion   |                | ded January 2000)  | Courteil          | , actallitae   |
|               | dispersing  | USE            | infrared detectors   | GS                | s satellites<br>artificial satellites                |
|               | disposal  | sprites        | (atmospheric physics)  | 93                | . Soviet satellites                                  |
|               | dumping   |                | ded January 2000)  |                   | Sputnik satellites                                   |
|               | emptying  |                | Short-lived luminosities observed at   |                   | Sputnik 1 satellite                                  |
|               | interfacial tension   |                | titudes above thunderstorms, apparently  |                   | Sputnik 2 satellite                                  |
|               | internal pressure materials handling  |                | ated with upward discharges of thunder-<br>electricity. They appear as columnar dif- |                   | Sputnik 3 satellite Sputnik 4 satellite              |
|               | scattering  |                | eddish glows between 30 km and 80 km   |                   | Sputnik 4 satellite                                  |
| ~             | separation  |                | ground, lasting tens of milliseconds, fol-   |                   | Soviet spacecraft                                    |
|               | spilling  |                | large positive cloud-to-ground lightning   |                   | Sputnik satellites                                   |
|               | swelling  | strokes        |  |                   | Sputnik 1 satellite                                  |
|               | throwing unloading  | UF<br>GS       | red sprites atmospheric radiation  |                   | Sputnik 2 satellite Sputnik 3 satellite              |
|               | aoading   | 00             | . sky radiation  |                   | Sputnik 3 satellite                                  |
| spreads       |   |                | sprites (atmospheric physics)  |                   | Sputnik 5 satellite                                  |
|               | ed March 2001)  |                | electromagnetic radiation  |                   | t  |
|               | Software applications that present a  |                | . light (visible radiation)  | sputter           | ing Dislocation of surface atoms of a ma-            |
|               | of multiple columns and rows, and allow o input and manipulate numerical data |                | sky radiation sprites (atmospheric physics)  | DEF<br>terial fro | Dislocation of surface atoms of a ma-                |
|               | ning, tracking, analysis, and financial                                       | RT             | atmospheric electricity  | particles         |  |
| calculati     |   |                | atmospheric ionization   | GS                | sputtering   |

| . magnetron sputtering                                  | RT boundary lubrication                           | UF Blackbird aircraft  |
|---|---|--|
| RT arc welding  | elastohydrodynamics                               | GS Lockheed aircraft   |
| ∞ bombardment   | ∞ films   | SR-71 aircraft   |
| deposition  | gas bearings                                      | reconnaissance aircraft  |
| duoplasmatrons  | gas lubricants                                    | . SR-71 aircraft   |
| electron bombardment<br>emission                        | liquid-solid interfaces<br>lubricants             | supersonic aircraft . SR-71 aircraft                               |
| ion plating   | thin films  | RT ∞ aircraft  |
| ion sources   | vapor phase lubrication                           | blended-wing-body configurations                                   |
| metal particles   | viscoelasticity                                   | ∞ military aircraft  |
| plasma etching  | viscous fluids                                    | ,  |
| surface finishing                                       |   | SRB (Solid Rocket Boosters)  |
| thermal instability                                     | squeezed states (quantum theory)                  | USE Space Shuttle Boosters   |
|   | DEF Single mode minimum uncertainty               | CDDi   |
| sputtering gages  | states for which the fluctuations in one quadra-  | SRB project  |
| GS measuring instruments                                | ture phase of the field are smaller than would    | (added October 2007) USE Surface Radiation Budget project          |
| . <b>sputtering gages</b><br>RT metal films             | occur for a coherent state. Used for two photon   | OOL Surface Radiation Budget project                               |
| thin films  | coherent states.  UF two photon coherent states   | SRE reactor  |
| UIII IIII13   | RT coherent electromagnetic radiation             | USE sodium reactor experiment                                      |
| squalls   | coherent light                                    |  |
| GS wind (meteorology)                                   | electromagnetic fields                            | SRET 1 satellite   |
| . squalls   | fluctuation theory                                | GS artificial satellites   |
| RT ground wind  | light transmission                                | . French satellites  |
| storms (meteorology)                                    | ∞ optics  | SRET satellites  |
|   | photon density                                    | SRET 1 satellite . meteorological satellites                       |
| squama  | quantum mechanics                                 | SRET satellites  |
| DEF A scale or structure resembling a                   | quantum theory                                    | SRET 1 satellite   |
| scale.  |   | RT French space program  |
| RT fishes   | squeezing   | Tronon opaco program   |
| square waves  | USE compressing                                   | SRET 2 satellite   |
| DEF Oscillations, the amplitudes of which               | squelch circuits                                  | GS artificial satellites   |
| show periodic discontinuities between two val-          | GS circuits                                       | . French satellites  |
| ues, remaining constant between jumps. Spe-             | . squelch circuits                                | SRET satellites  |
| cifically, in radar pulses initiated by a rapid rise to | RT background noise                               | SRET 2 satellite   |
| peak power, maintained at a constant peak               | electromagnetic noise                             | . meteorological satellites  |
| power over the finite pulse length, and termi-          | noise reduction                                   | SRET satellites  |
| nated by rapid decrease from peak power.                | silencers   | SRET 2 satellite   |
| GS waveforms  | suppressors                                       | SRET satellites  |
| . square waves  | switching circuits                                | GS artificial satellites   |
| RT form factors   |   | . French satellites  |
| pulse amplitude   | squibs  | SRET satellites  |
| pulse duration  | DEF Various small explosive devices. Ex-          | SRET 1 satellite   |
| sawtooth waveforms                                      | plosive devices used in the ignition of a rocket. | SRET 2 satellite   |
| time functions  | Used for XM-6 squib and XM-8 squib.               | . meteorological satellites  |
| wave functions  | UF XM-6 squib                                     | SRET satellites  |
| wave propagation  | XM-8 squib<br>GS igniters                         | SRET 1 satellite   |
| ∞ waves   | . squibs  | SRET 2 satellite   |
| square wells  | RT electric ignition                              | RT French space program  |
| DEF The impurity potential areas which                  | ignition systems                                  |  |
| bound an electron or hole in semiconducting             | primers (explosives)                              | Sri Lanka  |
| crystals such as silicon.                               | solid propellant ignition                         | UF Ceylon  |
| RT electron mobility                                    | starters  | GS nations<br>. <b>Sri Lanka</b>                                   |
| magnetic fields   |   | RT Asia  |
| photoconductivity                                       | squid (detectors)                                 | IXI Asia   |
| vacancies (crystal defects)                             | DEF Superconducting quantum interfer-             | SR-N2 ground effect machine  |
| wells   | ence device magnetometers. Used for super-        | USE Westland ground effect machines                                |
| ( d d )   | conducting quantum interferometers.               | · ·  |
| squares (mathematics)                                   | UF superconducting quantum                        | SR-N3 ground effect machine  |
| GS geometry   | interferometers                                   | USE Westland ground effect machines                                |
| . Euclidean geometry                                    | GS superconducting devices                        | CD NE succeed effect manabias                                      |
| polygons<br>tetragons                                   | . <b>squid (detectors)</b><br>RT ∞ detectors      | SR-N5 ground effect machine  |
| squares (mathematics)                                   | Josephson junctions                               | USE Westland ground effect machines                                |
| squares (mathematics)                                   | magnetic measurement                              | SS-11 missile  |
| squeeze casting   | quantum counters                                  | GS missiles  |
| (added September 1993)                                  | SIS (superconductors)                             | . SS-11 missile  |
| DEF The technique of working liquid metals              | superconductors (materials)                       | RT multistage rocket vehicles                                      |
| under pressure into near net shapes; it includes        | .,  | solid propellant rocket engines                                    |
| the technique of forging metal compounds.               | SQUID project                                     |  |
| GS forming techniques                                   | GS programs                                       | SSE project  |
| . casting   | . projects  | (added October 2007)   |
| squeeze casting   | SQUID project                                     | USE Surface Meteorology and Solar                                  |
| RT cast alloys  | RT jet propulsion                                 | Energy project   |
| compressing   |   | SSGS (standardized space guidance)                                 |
| extruding   | squirrels   | SSGS (standardized space guidance) USE standardized space guidance |
| fabrication   | GS animals  | JOE Standardized Space guidance                                    |
| forging   | . vertebrates                                     | SSTI   |
| liquid metals   | mammals   | USE small satellite technology                                     |
| metal matrix composites<br>metal working                | rodents<br><b>squirrels</b>                       | <b></b>  |
| metal working   | ground squirrels                                  | SSUS-A   |
| squeeze films   | ground aquirreis                                  | USE Space Shuttle upper stage A                                    |
| DEF Thin viscoelastic fluid films squeezed              | SR (reactors)                                     | SSUS-D   |
| between two usually planar structures to serve          | USE saturable reactors                            | USE Space Shuttle upper stage D                                    |
| as sealants, load dampers, lubricants, etc.             |   | OOL Opace Shattle upper stage D                                    |
| GS fluid films  | SR-71 aircraft                                    | St Lawrence Valley (North America)                                 |
| . squeeze films   | (added March 1990)                                | GS landforms   |
|   |   |  |

. St Lawrence Valley (North stabilizers (agents) sea keeping steady state stabilizers (agents) America) valleys tolerances (mechanics) stabilizers (fluid dynamics) St Lawrence Valley (North Tresca flow America) stabilizers (agents) Canada unsteady state RT additives variability Maine ∞ agents New Hampshire vlasov equations anticoagulants New York vulnerability antioxidants neutralizers stability augmentation preservatives St Louis-Kansas City Corridor (MO) DEF Maintenance of aircraft stability in flight retardants GS corridors by means of automatic control devices which stability . St Louis-Kansas City Corridor supplement a pilot's manipulation of the aircraft stabilization (MO) controls. The automatic controls are used to ∞ stabilizers Missouri modify inherent aircraft handling problems. regional planning augmentation stabilizers (fluid dynamics) . stability augmentation horizontal stabilizers St Venant flexure problem aerodynamic stability vertical stabilizers USE Saint Venant principle aircraft control vertical tails attitude (inclination) stabilizers (fluid dynamics)
. horizontal tail surfaces automatic control DEF The property of a body, as an aircraft or rocket, to maintain its attitude or to resist control stability aerial rudders directional stability airfoils displacement, and, if displaced to develop feedback control control surfaces forces and moments tending to restore the original condition. Of a fuel, the capability of a fuel to flight control ∞ dynamics lateral oscillation elevators (control surfaces) retain its characteristics in an adverse environpitch (inclination) ment, e.g. extreme temperature. Used for instakeels bility. stability derivatives rudders ÚF instability aerodynamic moments ∞ stabilizers GS stability GS sweptback tail surfaces . acoustic instability . stability derivatives T tail surfaces . baroclinic instability . . pitching moments tabs (control surfaces) . dynamic stability . . rolling moments tail assemblies . . combustion stability . . yawing moments tail surfaces ... flame stability RT complex variables trapezoidal tail surfaces . . control stability damping . . frequency stability differential equations . . motion stability stable oscillations moments of inertia GS oscillations . . . aerodynamic stability real variables stable oscillations . . . aircraft stability vector analysis dynamic stability . . . . hovering stability frequency pulling . . . attitude stability stability tests . . . directional stability GS stability tests frequency stability . gyroscopic stability flight stability tests gyroscopic stability lateral stability wind tunnel stability tests motion stability . longitudinal stability nonstabilized oscillation corrosion tests pilot induced oscillation . . . flow stability damping tests . boundary layer stability resonant vibration electronic equipment tests flame stability transverse oscillation flight tests . . . . magnetohydrodynamic stability undamped oscillations fuel tests wing oscillations . . . . . Weibel instability ground tests Goertler instability missile tests . . . . Taylor instability propellant tests stacking fault energy . . . low speed stability resonance testing RT crystal defects . . . rotary stability tests ∞ energy . gyroscopic stability vibration tests twinning . . . spacecraft stability gravitational instability stabilization stacking faults UF missile stabilization . interface stability USE crystal defects . laser stability GS stabilization magnetospheric instability . signal stabilization stacking sequence (composite materials) numerical stability
phase stability (materials) spin stabilization (added June 1997) three axis stabilization RT composite materials acid base equilibrium . static stability fiber composites balancing consolidation . . dimensional stability fiber orientation . . . structural stability laminates ∞ control . . . . shell stability lay-up ∞ equilibrium . storage stability ply orientation heat treatment . surface stability horizontal orientation . systems stability stacks laser gyroscopes . thermal stability phase stability (materials) chimneys amplification crystal defects ballast (mass) stabilizers (agents) materials handling chemical compatibility stress relieving compatibility vertical orientation STADAN (satellite tracking network) controllability USE STDN (network) stabilized platforms gimbals drift rate gyroscopic stability durability stadimeters gyrostabilizers dynamic characteristics DEF Instruments for determining the disinertial guidance tance to an object of known dimension by meaequations of motion ∞ platforms ∞ equilibrium suring the angle subtended at the observer by three axis stabilization metastable state the object. The instrument is graduated directly quality in distance.

∞ stabilizers

SN

RT

avroscopes

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) GS

measuring instruments

. stadimeters

RT range finders

. distance measuring equipment

reliability

∞ resistance

safety factors

spacecraft motion

|  | topograpny  | models  |
|--|---|---|
| stage separation   | stairways   | . standard model (particle physics) RT bosons   |
| UF staging (rockets)   | UF staircases   | RT bosons<br>CP violation   |
| RT booster rocket engines  | RT buildings  |   |
| S .  | 3.  | electroweak interactions (field theory)   |
| expendable stages (spacecraft)   | escalators  | electroweak model   |
| interim stages (spacecraft)  | ladders   | elementary particles  |
| Lunar Module Ascent Stage  | treads  | particle theory   |
| missiles   |   | quantum chromodynamics  |
| multistage rocket vehicles   | ∞ stalling  | quantum theory  |
| propellant mass ratio  | SN (USE OF A MORE SPECIFIC TERM IS  | quark models  |
| rocket vehicles  | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)  | strong interactions (field theory)  |
| ∞ separation   | RT aerodynamic stalling   | weak interactions (field theory)  |
| Space Shuttle Ascent Stage   | boundary layer separation   |   |
| sustainer rocket engines   | engine failure  | standardization   |
| thrust termination   | rotating stalls   | DEF The act or process of reducing some-  |
| upper stage rocket engines   | rotating ottailo  | thing to, or comparing it with, a standard. A   |
|  | stamping  | measure of uniformity. A special case of calibra-   |
| staggering   | SN (EXCLUDES IDENTIFICATION MARKING)  | tion whereby a known input is applied to a  |
| RT ∞ configurations  | GS forming techniques   | device or system for the purpose of verifying the   |
| disorientation   | . pressing (forming)  | output of adjusting the output to a desired level   |
|  | stamping  | or scale factor.  |
| staging (rockets)  | RT ∞ blanking   | GS standardization  |
| USE stage separation   | blanking (cutting)  | . commonality   |
| • .  | coining   | RT calibrating  |
| stagnation flow  | cold working  | intercalibration  |
| GS fluid flow  | dies  | metrication   |
| . inviscid flow  |   | naming  |
| stagnation flow  | dimpling  | numerical control   |
| RT boundary layer flow   | forging   | product development   |
| boundary layer separation  | hot isostatic pressing  | production engineering  |
| compressible flow  | hot pressing  | quality control   |
| stagnation point   | metal working   | specifications  |
| otagnation point   | punches   | standards   |
| stagnation point   | shearing  | variability   |
| DEF Point in a field of flow about a body  | swaging   | variability   |
| where the fluid particles have zero velocity with  | upsetting   | standardized space guidance   |
| respect to the body. Used for stagnation region.   | -1  | UF SSGS (standardized space guidance)   |
| UF stagnation region   | standard atmospheres  | GS guidance (motion)  |
| RT blunt bodies  | USE reference atmospheres   | . standardized space guidance   |
| boundary layer flow  | atandard deviation  | RT space navigation   |
| flow distribution  | standard deviation  DEF A measure of the agreement between  | 111 Space Havigation  |
| fluid dynamics   | DEF A measure of the agreement between test results.  | standards   |
| heat transfer  | GS moments  | DEF References used as a basis for com-   |
| stagnation flow  | . distribution moments  | parison or calibration. Concepts that have been   |
| ŭ  | standard deviation  | established by authority, custom, or agreement  |
| stagnation pressure  | statistical analysis  | to serve as models or rules in the measurement  |
| GS pressure  | . standard deviation  | of quantity of the establishment of a practice or   |
| . stagnation pressure  | RT confidence limits  | a procedure. Used for references (standards).   |
| RT compressible flow   |   | UF references (standards)   |
|  | estimating  |   |
| inlet pressure   | estimating<br>heterogeneity   |   |
|  | heterogeneity   | GS standards  |
|  | heterogeneity<br>quality control  | GS standards frequency standards  |
| inlet pressure   | heterogeneity<br>quality control<br>range (extremes)  | GS standards . frequency standards . reference atmospheres  |
| inlet pressure stagnation region   | heterogeneity<br>quality control<br>range (extremes)<br>variability   | GS standards frequency standards reference atmospheres  |
| inlet pressure stagnation region   | heterogeneity<br>quality control<br>range (extremes)  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy  |
| inlet pressure  stagnation region  USE stagnation point  | heterogeneity quality control range (extremes) variability variance (statistics)  | GS standards . frequency standards . reference atmospheres RT acceptability   |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes  |
| stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions  |
| stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria   |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature adiabatic flow compressible flow  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages   |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature adiabatic flow compressible flow  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature adiabatic flow compressible flow inviscid flow  staining RT chemical tests  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle   | GS standards . frequency standards . reference atmospheres  RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature adiabatic flow compressible flow inviscid flow  staining  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement   |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature adiabatic flow compressible flow inviscid flow  staining RT chemical tests  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology  |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles  | GS standards . frequency standards . reference atmospheres  RT acceptability accuracy calibrating  ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5   | GS standards . frequency standards . reference atmospheres  RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance   |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicles   | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicles   | GS standards . frequency standards . reference atmospheres  RT acceptability accuracy calibrating  ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance tests quality control reliability sampling   |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 standard Launch Vehicle 5 . Standard Launch Vehicle 5 . Standard Launch Vehicle 5 . Standard Launch Vehicle 5   | GS standards . frequency standards . reference atmospheres  RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance tests quality control reliability sampling specifications   |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicle 5  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance tests quality control reliability sampling specifications standardization  |
| stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 . Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  | GS standards . frequency standards . reference atmospheres  RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance tests quality control reliability sampling specifications   |
| stagnation region USE stagnation point  stagnation temperature GS temperature stagnation temperature stagnation temperature adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene methylene blue  stainless steels GS alloys iron alloys steels   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicles Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles UF SLV GS launch vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales   |
| stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys . iron alloys . steels stainless steels austenitic stainless steels ferritic stainless steels  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles UF SLV GS launch vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics)  |
| inlet pressure  stagnation region USE stagnation point  stagnation temperature GS temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles UF SLV GS launch vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering   |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles UF SLV GS launch vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering standing wave ratios  |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicles . Standard Launch Vehicle 5  Standard Launch Vehicles UF SLV GS launch vehicles . Standard Launch Vehicle . Standard Launch Vehicle . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Atlas SLV-3 launch vehicle  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios   |
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| stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature . stagnation temperature adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys . iron alloys . steels stainless steels austenitic stainless steels martensitic stainless steels RT chromium alloys maraging steels molybdenum alloys nickel alloys  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5  Standard Launch Vehicles . Standard Launch Vehicle 5  Standard Launch Vehicles . Standard Launch Vehicle 5  Standard Launch Vehicles . Standard Launch Vehicle 5  Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicle . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 . Standard Launch Vehicle | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating  ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios RT amplitudes  |
| stagnation region USE stagnation point  stagnation temperature GS temperature . stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys . iron alloys . steels stainless steels austenitic stainless steels martensitic stainless steels RT chromium alloys maraging steels molybdenum alloys  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles UF SLV GS launch vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicle 5 rocket Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties  |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles rocket vehicles . Standard Launch Vehicle 5 rocket vehicles  Standard Launch Vehicle 5  Standard Launch Vehicles . Standard Launch Vehicles . Standard Launch Vehicle  Standard Launch Vehicles  UF SLV GS launch vehicles . Atlas SLV-3 launch vehicle . Standard Launch Vehicle . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle . Standard Launch Vehicle . Standard Launch Vehicle . Standard Launch Vehicle 5 RT Atlas D ICBM ∞ vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties Smith chart  |
| stagnation region USE stagnation point  stagnation temperature GS temperature Stagnation temperature GS temperature Stagnation temperature RT adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys iron alloys steels steels first stainless steels musteritic stainless steels | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Atlas SLV-3 launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles  | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties  |
| inlet pressure  stagnation region  USE stagnation point  stagnation temperature GS temperature   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicle 5 Standard Launch Vehicle 5  Standard Launch Vehicles Standard Launch Vehicle 5  Standard Launch Vehicles Standard Launch Vehicle 5  Standard Launch Vehicles  Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard model (particle physics) (added April 1994)   | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating  ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties Smith chart transmission lines  |
| stagnation region USE stagnation point  stagnation temperature GS temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicle 5  Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles   | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties Smith chart transmission lines  standing waves   |
| stagnation region USE stagnation point  stagnation temperature GS temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicle 5 Standard Launch Vehicle 5 Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicl | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating  ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios  GS ratios . standing wave ratios  RT amplitudes electrical properties Smith chart transmission lines  standing waves  DEF Periodic waves having fixed distribu-   |
| stagnation region USE stagnation point  stagnation temperature GS temperature Stagnation temperature GS adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys iron alloys iron alloys ferritic stainless steels CI austenitic stainless steels CI martensitic stainless steels CI martensitic stainless steels CI martensitic stainless steels CI maraging steels molybdenum alloys nickel alloys nickel steels  staircases USE stairways  stairsteps RT backward facing steps   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicles . Atlas SLV-3 launch vehicle . Standard Launch Vehicle 5 rocket vehicles . Atlas SLV-3 launch Vehicle 5 rocket vehicles . Atlas SLV-3 launch Vehicle 5 RT Atlas D ICBM  ∞ vehicles  standard model (particle physics) (added April 1994) GS field theory (physics) . gauge theory . unified field theory   | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties Smith chart transmission lines  standing waves DEF Periodic waves having fixed distribution in space which are the result of interference  |
| stagnation region USE stagnation point  stagnation temperature GS temperature  | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  Standard Launch Vehicle 5 GS launch vehicles Standard Launch Vehicles Standard Launch Vehicle 5 rocket vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicle Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Launch Vehicles Standard Model (particle physics) (added April 1994) GS field theory unified field theory unified field theory unified field theory standard model (particle   | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating  ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios  GS ratios . standing wave ratios  RT amplitudes electrical properties Smith chart transmission lines  standing waves  DEF Periodic waves having fixed distribution in space which are the result of interference of progressive waves of the same frequency and |
| stagnation region USE stagnation point  stagnation temperature GS temperature Stagnation temperature GS adiabatic flow compressible flow inviscid flow  staining RT chemical tests discoloration marking methylene methylene blue  stainless steels GS alloys iron alloys iron alloys ferritic stainless steels CI austenitic stainless steels CI martensitic stainless steels CI martensitic stainless steels CI martensitic stainless steels CI maraging steels molybdenum alloys nickel alloys nickel steels  staircases USE stairways  stairsteps RT backward facing steps   | heterogeneity quality control range (extremes) variability variance (statistics)  standard electroweak model USE electroweak model  standard launch vehicle 3 USE Atlas SLV-3 launch vehicle  standard Launch Vehicle 5 GS launch vehicles . Standard Launch Vehicles . Standard Launch Vehicle 5 rocket vehicles . Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicle 5  Standard Launch Vehicles . Atlas SLV-3 launch vehicle . Standard Launch Vehicle 5 rocket vehicles . Atlas SLV-3 launch Vehicle 5 rocket vehicles . Atlas SLV-3 launch Vehicle 5 RT Atlas D ICBM  ∞ vehicles  standard model (particle physics) (added April 1994) GS field theory (physics) . gauge theory . unified field theory   | GS standards . frequency standards . reference atmospheres RT acceptability accuracy calibrating ∞ codes conventions criteria document markup languages inspection interoperability ∞ measurement ∞ measures metrology ∞ performance performance performance tests quality control reliability sampling specifications standardization temperature scales tolerances (mechanics) validity value engineering  standing wave ratios GS ratios . standing wave ratios RT amplitudes electrical properties Smith chart transmission lines  standing waves DEF Periodic waves having fixed distribution in space which are the result of interference  |

|   | of nodes or partial nodes and antinodes fixed in space.   | star formation<br>stellar systems  | <b>starches</b><br>organic compounds   |
|---|---|--|--|
| RT  | antinodes   | Virgo galactic cluster   | . carbohydrates  |
|   | beat frequencies<br>frequencies   | star fields  | polysaccharides<br><b>starches</b>   |
|   | harmonics   | USE star distribution  | RT chitin  |
|   | nodes (standing waves)  |  | ∞ food   |
| ~   | radiation   | star formation   | sizing materials   |
|   | resonant frequencies  | DEF The collapse under gravity of molecu-<br>lar clouds of interstellar matter to form clusters of   | Standuct Mission   |
|   | vibration<br>wavelengths  | protostars, and the continuing collapse of the   | Stardust Mission<br>(added March 1999)   |
| 0   | • Waves   | protostars to form main-sequence stars.  | DEF First U.S. mission launched to roboti-   |
|   | wavoo   | GS evolution (development)   | cally obtain samples in deep space and return  |
| stands  |   | . stellar evolution  | them to Earth. The NASA Discovery-class mis-   |
| USE   | supports  | star formation   | sion will return dust samples collected from the   |
| stannat   | 96  | RT astrophysics  | debris cloud surrounding the nucleus of Comet Wild 2. Interstellar dust will also be collected.  |
|   | tin compounds   | cooling flows (astrophysics) cosmology   | The mission spacecraft takes advantage of an   |
|   | . stannates   | early stars  | Earth gravity-assist maneuver to reach the   |
| RT ∘  | oxygen compounds  | hydrogen clouds  | comet, and uses an aerogel-based dust collec-  |
|   |   | interstellar gas   | tor.   |
| stannid<br>GS   | es<br>tin compounds   | interstellar matter<br>molecular clouds  | GS space missions  |
| 00  | . stannides   | nebulae  | . flyby missions<br><b>Stardust Mission</b>  |
|   | niobium stannides   | nuclear fusion   | . sample return missions   |
| RT  | tin alloys  | pre-main sequence stars  | Stardust Mission   |
| 04 - 44 -   |   | protogalaxies  | RT comet nuclei  |
| Stantor<br>GS   | number<br>dimensionless numbers   | protostars   | interstellar matter  |
| GS  | . Stanton number  | solar nebula<br>star distribution  | Wild 2 comet   |
|   | ratios  | star formation rate  | Starfighter aircraft   |
|   | . Stanton number  | starburst galaxies   | USE F-104 aircraft   |
| RT  | forced convection   | stars  |  |
|   | heat transfer   | stellar mass accretion   | Stark effect   |
| STAP (r   | adar)   | Submillimeter Wave Astronomy   | DEF The broadening or splitting of a spec-   |
|   | ed November 2002)   | Satellite<br>T Tauri stars   | tral line observed when a luminous gas is acted upon by a strong electric field.   |
| •   | space-time adaptive processing  | i iduli stais  | RT ∞ effects   |
|   |   | star formation rate  | electric fields  |
|   | ococcus   | DEF The rate at which stars are formed   | electro-optics   |
| GS  | microorganisms  | within a specified region or galaxy; sometimes   | hydrogen plasma  |
|   | . bacteria<br>staphylococcus  | expressed as the number of solar masses per  | line spectra   |
| RT  | pleurotin   | year. GS rates (per time)  | resolution spectrum analysis   |
|   | •   | . star formation rate  | Zeeman effect  |
| star cata   |   | RT galactic evolution  |  |
| USE   | astronomical catalogs   | galaxies   | Starlab  |
|   |   |  |  |
| otor olu  | otoro   | star formation   | DEF A proposed satellite ultraviolet tele-   |
| star clu  |   | starburst galaxies   | scope that was a joint project between the   |
| DEF   | sters Groups of stars physically close to-  |  | scope that was a joint project between the United States, Canada, and Australia. It is cur-  |
|   |   | starburst galaxies   | scope that was a joint project between the   |
| DEF gether.   | Groups of stars physically close to-<br>celestial bodies<br>. star clusters   | starburst galaxies<br>stellar evolution  | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-  |
| DEF gether.   | Groups of stars physically close to-<br>celestial bodies<br>. star clusters<br>globular clusters  | starburst galaxies stellar evolution  star trackers DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a  | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  |
| DEF gether.   | Groups of stars physically close to- celestial bodies . star clusters . globular clusters . open clusters   | starburst galaxies stellar evolution  star trackers DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to  | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes   |
| DEF gether.   | Groups of stars physically close to- celestial bodies . star clusters . globular clusters . open clusters Pleiades cluster  | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.   | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes   |
| DEF gether.   | Groups of stars physically close to- celestial bodies . star clusters . globular clusters . open clusters Pleiades cluster Praesepe star clusters   | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.  UF star tracking   | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes . Starlab   |
| DEF<br>gether.<br>GS  | Groups of stars physically close to- celestial bodies . star clusters . globular clusters . open clusters Pleiades cluster  | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.   | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes   |
| DEF<br>gether.<br>GS  | Groups of stars physically close to- celestial bodies . star clusters . globular clusters . open clusters Pleiades cluster Praesepe star clusters barred galaxies binary stars clusters   | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.  UF star tracking GS tracking (position)  | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes . Starlab . ultraviolet telescopes  |
| DEF<br>gether.<br>GS  | Groups of stars physically close to- celestial bodies . star clusters . globular clusters . open clusters Pleiades cluster Praesepe star clusters barred galaxies binary stars clusters color-magnitude diagram   | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.  UF star tracking GS tracking (position) . star trackers CCD star tracker RT Astroguide Navigation System   | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes . Starlab . ultraviolet telescopes . Starlab  RT ∞ optics Space Shuttle payloads  |
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| DEF<br>gether.<br>GS<br>RT<br>RT<br>star dis<br>UF<br>GS          | Groups of stars physically close to-  celestial bodies . star clusters globular clusters open clusters Pleiades cluster Praesepe star clusters barred galaxies binary stars clusters color-magnitude diagram disk galaxies elliptical galaxies galactic clusters galaxies irregular galaxies Magellanic clouds metallicity solar neighborhood stars stellar systems Virgo galactic cluster  tribution star fields stellar fields distribution star distribution angular distribution angular distribution astrolabes barred galaxies cosmology galactic clusters galactic clusters galactic clusters galactic clusters galactic clusters galactic clusters galactic clusters galactic clusters galactic clusters galactic halos globular clusters | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.  UF star tracking GS tracking (position) . star trackers CCD star tracker RT Astroguide Navigation System astrolabes attitude control celestial navigation charge injection devices flight instruments guidance sensors inertial navigation laser guide stars missile control navigation avigation navigation instruments solar sensors spacecraft guidance  star tracking USE star trackers  starburst galaxies GS celestial bodies . galaxies starburst galaxies RT galactic nuclei star formation rate  starches                             | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes . spaceborne telescopes . Starlab . ultraviolet telescopes . Starlab  RT ∞ optics Space Shuttle payloads Spacelab  Starlifter aircraft USE C-141 aircraft  Starprobe mission GS programs . NASA space programs . NASA space programs . NASA space programs . NASA space programs . Starprobe mission space programs . Starprobe mission Starprobe mission Starprobe spacecraft GS unmanned spacecraft GS unmanned spacecraft . space probes . solar probes . Starprobe spacecraft RT Starprobe mission  starquakes (added July 1989) RT asteroseismology            |
| DEF<br>gether.<br>GS<br>RT<br>RT<br>star dis<br>UF<br>GS          | Groups of stars physically close to-  celestial bodies . star clusters globular clusters open clusters Pleiades cluster Praesepe star clusters barred galaxies binary stars clusters color-magnitude diagram disk galaxies elliptical galaxies galactic clusters galaxies irregular galaxies Magellanic clouds metallicity solar neighborhood stars stellar systems Virgo galactic cluster  tribution star fields stellar fields distribution (property) . spatial distribution vertical distribution angular distribution astrolabes barred galaxies cosmology galactic clusters galactic evolution galactic halos   | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.  UF star tracking  GS tracking (position)  . star trackers  . CCD star tracker  RT Astroguide Navigation System astrolabes attitude control celestial navigation charge injection devices flight instruments guidance sensors inertial navigation laser guide stars missile control navigation navigation aids navigation instruments solar sensors spacecraft guidance  star tracking  USE star trackers  starburst galaxies  GS celestial bodies  . galaxies  RT galactic nuclei star formation star formation rate  starches  GS biopolymers | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes . Starlab . ultraviolet telescopes . Starlab  RT ∞ optics Space Shuttle payloads Spacelab  Starlifter aircraft USE C-141 aircraft  Starprobe mission GS programs . NASA space programs . NASA space programs . Starprobe mission . space programs . NASA space programs . Starprobe mission Space missions Starprobe mission Starprobe spacecraft GS unmanned spacecraft GS unmanned spacecraft RT Starprobe mission  starquakes (added July 1989)  |
| DEF<br>gether.<br>GS<br>RT<br>RT<br>star dis<br>UF<br>GS          | Groups of stars physically close to-  celestial bodies . star clusters globular clusters open clusters Pleiades cluster Praesepe star clusters barred galaxies binary stars clusters color-magnitude diagram disk galaxies elliptical galaxies galactic clusters galaxies irregular galaxies Magellanic clouds metallicity solar neighborhood stars stellar systems Virgo galactic cluster  tribution star fields stellar fields distribution (property) . spatial distribution vertical distribution angular distribution astrolabes barred galaxies cosmology galactic clusters galactic evolution galactic halos globular clusters mass distribution   | starburst galaxies stellar evolution  star trackers  DEF Telescopic instruments on rockets or other flight borne vehicles that lock onto a celestial body and give guidance reference to the vehicles during flight. Used for star tracking.  UF star tracking GS tracking (position) . star trackers CCD star tracker RT Astroguide Navigation System astrolabes attitude control celestial navigation charge injection devices flight instruments guidance sensors inertial navigation laser guide stars missile control navigation avigation navigation instruments solar sensors spacecraft guidance  star tracking USE star trackers  starburst galaxies GS celestial bodies . galaxies starburst galaxies RT galactic nuclei star formation rate  starches                             | scope that was a joint project between the United States, Canada, and Australia. It is currently in abeyance. Used for Spacelab UV-Optical Telescope Facility.  UF Spacelab UV-Optical Telescope Facility  GS telescopes . spaceborne telescopes . starlab . ultraviolet telescopes . Starlab  RT ∞ optics Space Shuttle payloads Spacelab  Starlifter aircraft USE C-141 aircraft  Starprobe mission GS programs . NASA space programs . NASA space programs . NASA space programs . NASA space programs . Starprobe mission space programs . Starprobe mission Starprobe mission Starprobe mission Starprobe spacecraft GS unmanned spacecraft GS unmanned spacecraft . space probes . solar probes . Starprobe spacecraft RT Starprobe mission  starquakes (added July 1989) RT asteroseismology gamma ray bursts |

| pulsars  | variable stars                               | social factors                                |
|--|--|---|
| stars  | cataclysmic variables                        | technology transfer                           |
| stellar activity                                     | cepheid variables                            | urban development                             |
| stellar physics                                      | flare stars                                  | urban planning                                |
| stellar rotation                                     | irregular variable stars                     | , ,   |
| stellar structure                                    | R Coronae Borealis stars                     | starspots                                     |
| Stellar Structure                                    | Lambda Tauri stars                           | DEF Temporary disturbed areas in the stel-    |
|  |  |   |
| stars  | Mira variables                               | lar photosphere that appear dark because they |
| DEF Self-luminous celestial bodies exclu-            | Omicron Ceti star                            | are colder than the surrounding areas.        |
|  | novae  | GS stellar activity                           |
| sive of nebulas, comets, and meteors; suns           | dwarf novae                                  | . starspots                                   |
| seen in the heavens. Distinguished from planets      | Hercules nova                                | sunspots                                      |
| or natural satellites that shine by reflected light. | semiregular variable stars                   | RT faculae                                    |
| GS celestial bodies                                  | supernovae                                   | magnetic disturbances                         |
| . stars  |  | photosphere                                   |
| black holes (astronomy)                              | supernova 1987A                              |   |
| brown dwarf stars                                    | symbiotic stars                              | solar activity                                |
| double stars   | T Tauri stars                                | stars   |
|  | white holes (astronomy)                      | stellar atmospheres                           |
| binary stars   | x ray stars                                  | stellar luminosity                            |
| cataclysmic variables                                | soft gamma repeaters                         | stellar magnetic fields                       |
| companion stars                                      | x ray binaries                               | stellar radiation                             |
| Nemesis (star)                                       | Population I stars                           | sunspot cycle                                 |
| eclipsing binary stars                               |  |   |
| dwarf novae  | Population II stars                          | twenty-seven day variation                    |
| Lambda Tauri stars                                   | Population III stars                         |   |
|  | RT Aries constellation                       | starters                                      |
| Zeta Aurigae star                                    | astrolabes                                   | GS starters                                   |
| Sigma Orionis  | barred galaxies                              | . engine starters                             |
| symbiotic stars                                      | Cassiopeia constellation                     | RT actuators                                  |
| x ray binaries                                       | •  | ignition systems                              |
| early stars  | celestial mechanics                          |   |
| hot stars  | Centaurus constellation                      | squibs  |
|  | constellations                               | starting                                      |
| A stars  | Corona Borealis constellation                |   |
| B stars  | Cygnus constellation                         | starting                                      |
| shell stars  | faint objects                                | GS starting                                   |
| Sigma Orionis  |  | . air start                                   |
| blue stars   | galaxies                                     |   |
| O stars  | irregular galaxies                           | RT activation                                 |
|  | Lyra constellation                           | actuation                                     |
| white dwarf stars                                    | Magellanic clouds                            | cycles  |
| Wolf-Rayet stars                                     | metallicity                                  | electric ignition                             |
| F stars  | Milky Way Galaxy                             | engine primers                                |
| G stars  | quasars                                      | excitation                                    |
| sun  | ·  | firing (igniting)                             |
| giant stars  | solar neighborhood                           |   |
|  | star clusters                                | ignition                                      |
| asymptotic giant branch stars                        | star formation                               | initiation                                    |
| Omicron Ceti star                                    | starquakes                                   | launching                                     |
| red giant stars                                      | starspots                                    | ∞ priming                                     |
| carbon stars   | stellar activity                             | reactor startup tests                         |
| horizontal branch stars                              |  | starters                                      |
| infrared stars                                       | stellar composition                          | stimulation                                   |
| late stars   | stellar cores                                | Stimulation                                   |
|  | stellar gravitation                          |   |
| cool stars   | stellar interiors                            | state equations                               |
| carbon stars   | stellar magnitude                            | USE equations of state                        |
| flare stars  | stellar oscillations                         |   |
| K stars  | Virgo galactic cluster                       | state estimation                              |
| M stars  | virgo galactic ciustei                       | RT algorithms                                 |
| Van Biesbroeck star                                  | store (methematica)                          | Kalman filters                                |
| Mira variables                                       | stars (mathematics)                          |   |
| Omicron Ceti star                                    | RT ∞ mathematics                             | linear systems                                |
|  |  | orbital position estimation                   |
| S stars  | Starsat telescope                            | state vectors                                 |
| magnetic stars                                       | DEF An anastigmatic 3-mirror reflecting      | stochastic processes                          |
| magnetars  | telescope for ultraviolet astronomy purposes |   |
| main sequence stars                                  | aboard the Starsat satellite.                | state vectors                                 |
| dwarf stars  | GS telescopes                                | GS algebra                                    |
| dwarf novae  |  | . vector spaces                               |
| flare stars  | . reflecting telescopes Starsat telescope    | ·   |
| red dwarf stars                                      | <u> </u>                                     | vectors (mathematics)                         |
|  | . spaceborne telescopes                      | state vectors                                 |
| sun  | Starsat telescope                            | RT observability (systems)                    |
| massive stars  | RT coronagraphs                              | phase-space integral                          |
| metallic stars                                       | spaceborne astronomy                         | state estimation                              |
| neutron stars  | spectroheliographs                           | steady state                                  |
| magnetars  | ultraviolet astronomy                        | strange attractors                            |
| pulsars  | ultraviolet astronomy                        | Strainge attractors                           |
|  | Staraita program                             |   |
| soft gamma repeaters                                 | Starsite program                             | static aerodynamic characteristics            |
| . peculiar stars                                     | GS programs                                  | GS aerodynamic characteristics                |
| shell stars  | . Starsite program                           | . static aerodynamic characteristics          |
| Sigma Orionis  | RT architecture                              | static characteristics                        |
| symbiotic stars                                      | buildings                                    | . static aerodynamic characteristics          |
| Praesepe star clusters                               | communities                                  | RT aerodynamic balance                        |
| protostars   | conferences                                  | aerodynamic stability                         |
| pre-main sequence stars                              | construction                                 | ∞ characteristics                             |
|  |  | ∞ characteristics                             |
| T Tauri stars  | decision making                              |   |
| radio stars  | ∞ development                                | static alternators                            |
| pulsars  | environmental engineering                    | GS electric generators                        |
| reference stars                                      | information retrieval                        | . AC generators                               |
| subdwarf stars                                       | land use                                     | static alternators                            |
| subgiant stars                                       |  | Statio alternatoro                            |
| •  | management methods                           |   |
| sunergiant stars                                     | management methods                           | static characteristics                        |
| supergiant stars                                     | NASA programs                                | static characteristics                        |
| R Coronae Borealis stars                             | NASA programs<br>planning                    | SN (EXCLUDES STATICS)                         |
|  | NASA programs                                |   |

#### static deformation

RT static loads determine a balance of systems at rest. . spacecraft orbits static stability models . . satellite orbits static tests static models . stationary orbits RT approximation RT Earth orbits static deformation dynamic models geosynchronous orbits deformation optimization synchronous satellites static deformation twenty-four hour orbits RT creep properties static pressure Maxwell-Mohr method GS pressure stationkeeping Saint Venant principle DEF The sequence of maneuvers that . static pressure maintains a vehicle in predetermined orbit. . hydrostatic pressure static dischargers GS positioning isostatic pressure antistatic devices stationkeeping pitot tubes GS dischargers formation flying sound pressure . static dischargers guidance (motion) navigation static stability static electricity GS stability orbital mechanics GS electricity . static stability orbits static electricity . . dimensional stability payload retrieval (STS) atmospheric electricity . . . structural stability satellite constellations atmospherics ... shell stability spacecraft control electric corona aircraft stability electric fields stations counterbalances electric potential GS stations drift (instrumentation) electric sparks . ground stations dynamic stability . . Deep Space Instrumentation electrostatic charge magnetohydrostatics electrostatics Facility static characteristics lightning .. Earth terminals storage stability . . integrated mission control center open circuit voltage stratification space charge . . polystation doppler tracking system surface stability . hydroelectric power stations payload stations static firing static tests DEF The firing of a rocket engine in a hold . space stations (ENCOMPASSES MATERIALS, ENGINE, AND VEHICLE TESTS) SN down position to measure thrust and accomplish . . Automatic Universal Orbiting GS captive tests other tests. Stations captive tests . static tests . . Columbus space station . . Halo Orbit space station static tests . static firing RT cold flow tests . . International Space Station . static firing compression tests . . man tended free flyers engine tests creep tests . static firing . . Mir space station firing (igniting) dynamic tests . . orbiting lunar stations engine tests Salyut space station . test firing Skylab 1 . . static firing fatigue tests ground tests ground tests Skylab 2 . prelaunch tests hardness tests . . Skylab 3 inspection . static firing Skylab 4 Space Operations Center (NASA) load tests rocket firing ∞ materials tests . . Space Station Freedom . . space station polar platforms missile tests static friction nondestructive tests GS friction . tracking stations . static friction prefiring tests . . Deep Space Instrumentation prelaunch tests coefficient of friction Facility dry friction quality control . . Global Tracking Network resonance testing friction measurement . . polystation doppler tracking system static characteristics kinetic friction . weather stations tensile tests sliding . . automatic weather stations sliding friction test firing . workstations ∞ tests . . crew workstations vibration tests static inverters ... crew experiment stations GS inverters wear tests . . crew observation stations static inverters RT ∞ bases RT electric generators static thrust ∞ facilities GS thrust lunar bases static loads static thrust military air facilities deadweight UF RT jet thrust planetary bases GS loads (forces) rocket thrust position (location) static loads space bases aerodynamic loads statics Space Flight Tracking and Data axial compression loads GS statics Network axial loads . aerostatics ballast (mass) electrostatics statistical analysis bending moments . hydrostatics GS statistical analysis compression loads . . magnetohydrostatics amplitude distribution analysis critical loading RT ∞ dynamics . correlation coefficients dynamic loads elastostatics . discriminant analysis (statistics) edge loading ∞ equilibrium . factor analysis flexural strength fluid mechanics goodness of fit loading moments ∞ mechanics (physics) likelihood ratio mass distribution Maxwell-Boltzmann density function moment distribution stationary orbits nonparametric statistics DEF Orbits in which the satellite revolves Poisson density functions pressure distribution about the primary at the angular rate at which . probability density functions random loads . . normal density functions Saint Venant principle the primary rotates on its axis. From the primary, static characteristics the satellite thus appears to be stationary over a Pearson distributions structural design criteria point on the primary. Rayleigh distribution transverse loads GS orbits . . Weibull density functions . probability distribution functions wing loading . circular orbits . . stationary orbits . guantiles . equatorial orbits . sequential analysis static models

. . stationary orbits

. standard deviation

DEF

Sets of equations of physical laws to

| . statistical correlation   | . statistical correlation  | GS statistical analysis   |
|---|--|---|
| . statistical decision theory   | statistical analysis   | . statistical tests   |
| . statistical tests   | . statistical correlation  | Kolmogorov-Smirnov test   |
| Kolmogorov-Smirnov test   | RT correlation coefficients  | Mann-Whitney-Wilcoxon U test  |
| Mann-Whitney-Wilcoxon U test  | data correlation   | rank tests  |
| rank tests  | econometrics   | RT charts   |
| . variance (statistics)   | evaluation   | confidence limits   |
| analysis of variance multivariate statistical analysis  | quality control<br>∞ statistics  | curve fitting<br>∞ data   |
| bivariate analysis  | teleconnections (meteorology)  | estimates   |
| covariance  | tologoninotions (motoorology)  | estimating  |
| orthogonality   | statistical decision theory  | factor analysis   |
| regression analysis   | GS decision theory   | goodness of fit   |
| regression coefficients   | . statistical decision theory  | heterogeneity   |
| RT ∞ analyzing  | statistical analysis   | homogeneity   |
| ∞ applications of mathematics   | . statistical decision theory  | likelihood ratio  |
| approximation   | RT game theory  ∞ theories   | normality   |
| autoregressive processes  | ∞ trieories  | null hypothesis   |
| binomial theorem  | statistical distributions  | outliers (statistics)   |
| biometrics<br>censored data (mathematics)   | UF random distributions  | quality control range (extremes)  |
| charts  | GS statistical distributions   | regression analysis   |
| Chebyshev approximation   | . brightness distribution  | reliability   |
| cluster analysis  | . Pearson distributions  | significance  |
| coefficients  | . probability distribution functions   | ∞ tests   |
| confidence  | . Rayleigh distribution  | validity  |
| confidence limits   | RT binomial theorem  | •   |
| continuity (mathematics)  | censored data (mathematics)  | statistical weather forecasting   |
| correlation   | complexity<br>curve fitting  | GS meteorology  |
| ∞ data  | ∞ distribution   | . weather forecasting   |
| data correlation  | distribution     distribution (property)   | statistical weather forecasting   |
| decision theory   | distribution functions   | predictions   |
| discrete functions<br>∞ dispersion  | distribution moments   | . forecasting   |
| economics   | error functions  | weather forecasting statistical weather forecasting   |
| estimates   | events   | RT long range weather forecasting   |
| estimating  | expectancy hypothesis  | numerical weather forecasting   |
| events  | forecasting  | namenear weather rereading  |
| expectancy hypothesis   | gamma function   | ∞ statistics  |
| experiment design   | goodness of fit  | SN (USE OF A MORE SPECIFIC TERM IS  |
| exponential functions   | Kolmogorov-Smirnov test  | RECOMMENDEDCONSULT THE TERMS  |
| extrapolation   | kurtosis   | LISTED BELOW)<br>RT arrays  |
| factorial design  | mathematical models outliers (statistics)  | biometrics  |
| failure analysis  | probability theory   | census  |
| forecasting   | quality control  | ∞ data  |
| game theory   | quantiles  | demography  |
| Gauss-Markov theorem  | quantum theory   | entropy (statistics)  |
| graphs (charts)   | quartiles  | estimates   |
| information theory inspection   | reliability  | estimating  |
| interpolation   | scattering   | Fermi-Dirac statistics  |
| linear prediction   | size distribution  | information theory  |
| management  | -t-ti-ti-all   | nonparametric statistics  |
| ∞ mathematics   | statistical mechanics  DEF Branch of physics concerned with pre-   | populations   |
| maximum entropy method  | DEF Branch of physics concerned with pre-<br>dictions of the behavior of macroscopic systems   | probability theory  |
| mean  | based on the interactions of the microscopic   | quantiles<br>quantum statistics   |
| median (statistics)   | constituents of the system, where the number of  | random variables  |
| Mills ratio   | constituents is very large.  | reliability   |
| minimum variance orbit determination  | RT Boltzmann distribution  | sampling  |
| Monte Carlo method  | Boltzmann transport equation   | statistical analysis  |
| MTBF operations research  | classical mechanics  | statistical correlation   |
| outliers (statistics)   | closure law  | stochastic processes  |
| parameter identification  | cluster variation method   | surveys   |
| probability theory  | continuum mechanics  | systems engineering   |
| quality control   | energy distribution<br>fluctuation theory  | tables (data)<br>time series analysis   |
| quartiles   | function space   | time series analysis  |
| queueing theory   |  | stator blades   |
| random processes  |  |   |
|   | Ising model  |   |
| reliability   | Liouville equations  | GS turbomachine blades  |
| root-mean-square errors   |  | GS turbomachine blades . stator blades  |
| root-mean-square errors sampling  | Liouville equations macroscopic equations  | GS turbomachine blades<br>. <b>stator blades</b><br>RT ∞ blades   |
| root-mean-square errors<br>sampling<br>∞ statistics   | Liouville equations<br>macroscopic equations<br>Malkus theory  | GS turbomachine blades . stator blades  |
| root-mean-square errors<br>sampling<br>∞ statistics<br>stochastic processes   | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics)   | GS turbomachine blades . stator blades RT ∞ blades compressor blades  |
| root-mean-square errors<br>sampling<br>∞ statistics<br>stochastic processes<br>system identification  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics  | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators  |
| root-mean-square errors<br>sampling<br>∞ statistics<br>stochastic processes<br>system identification<br>systems analysis  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient   | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades   |
| root-mean-square errors<br>sampling<br>∞ statistics<br>stochastic processes<br>system identification  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics   | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators  |
| root-mean-square errors sampling  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory  | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes   |
| root-mean-square errors sampling  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods  | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes stators   |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem   | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium  | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators DEF In machinery, parts or assemblies the  |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem trend analysis  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods  | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators DEF In machinery, parts or assemblies the remain stationary with respect to rotating of  |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem trend analysis Wiener filtering   | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium weighting functions  statistical moments   | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators DEF In machinery, parts or assemblies the remain stationary with respect to rotating moving parts or assemblies such as the fie  |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem trend analysis  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium weighting functions  | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators DEF In machinery, parts or assemblies the remain stationary with respect to rotating of moving parts or assemblies such as the file frames of electric motors or generators, or the  |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem trend analysis Wiener filtering Yang-Mills theory                                   | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium weighting functions  statistical moments USE distribution moments                          | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators DEF In machinery, parts or assemblies the remain stationary with respect to rotating moving parts or assemblies such as the fie  |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem trend analysis Wiener filtering Yang-Mills theory  statistical communication theory | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium weighting functions  statistical moments USE distribution moments  statistical probability | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators  DEF In machinery, parts or assemblies the remain stationary with respect to rotating moving parts or assemblies such as the fie frames of electric motors or generators, or the stationary casings and blades surrounding axi   |
| root-mean-square errors sampling  | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium weighting functions  statistical moments USE distribution moments                          | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators  DEF In machinery, parts or assemblies the remain stationary with respect to rotating of moving parts or assemblies such as the fie frames of electric motors or generators, or the stationary casings and blades surrounding axi flow compressor rotors or turbine wheels. RT compressors electric motors |
| root-mean-square errors sampling  ∞ statistics stochastic processes system identification systems analysis systems engineering tables (data) Taguchi methods teleconnections (meteorology) traveling salesman problem trend analysis Wiener filtering Yang-Mills theory  statistical communication theory | Liouville equations macroscopic equations Malkus theory many body problem Maxwell-Boltzmann density function ∞ mechanics (physics) molecular dynamics Onsager phenomenological coefficient quantum mechanics quantum theory renormalization group methods thermodynamic equilibrium weighting functions  statistical moments USE distribution moments  statistical probability | GS turbomachine blades . stator blades RT ∞ blades compressor blades rotor blades (turbomachinery) rotor stator interactions stators turbine blades vanes  stators  DEF In machinery, parts or assemblies the remain stationary with respect to rotating of moving parts or assemblies such as the file frames of electric motors or generators, or the stationary casings and blades surrounding axi flow compressor rotors or turbine wheels. RT compressors                |

# STDN (network)

|              | motors   |               | unsteady flow                             |                     | Bacillus   |
|--------------|--|---------------|---|---------------------|--|
|              | pumps  |               | unsteady state                            |                     | stearothermophilus   |
| ~            | rotating electrical machines   |               | •   |                     | -  |
|              | rotors   |               | state creep                               | steatite            | tala   |
|              | stator blades<br>turbines  | GS            | mechanical properties . creep properties  | USE                 | talc   |
|              | tubliles   |               | steady state creep                        | steel st            | ructures   |
| statutes     |  | RT            | plastic flow                              | GS                  | welded structures  |
| USE          | law (jurisprudence)  |               | quasi-steady states                       | DT                  | . steel structures   |
| etave        |  | oto o ali i   | atata flavo                               | RT                  | composite structures construction  |
| stays<br>USE | guy wires  | USE           | state flow equilibrium flow               |                     | rigid structures   |
| 002          | guy  | OOL           | equilibrium now                           | ~                   | structures   |
|              | network)   | stealth       | bomber                                    |                     |  |
|              | Spaceflight Tracking and Data Net-                                       | USE           | B-2 aircraft                              | <b>steels</b><br>GS | alleve   |
|              | ame changed from Space Tracking and cquisition Network (STDAN). Used for | stoalth       | technology                                | 00                  | alloys<br>. iron alloys  |
|              | Tracking and Data Acq Network,   |               | ed November 2001)                         |                     | steels   |
|              | aft Tracking and Data Network, and                                       | ,             | Methods, materials, and designs for       |                     | bainitic steel   |
|              | (satellite tracking network).  |               | g the detectability of vehicles and other |                     | carbon steels  |
| UF           | Satellite Tracking and Data Acq<br>Network                               |               | s by radar or any other electronic or     |                     | low carbon steels chromium steels  |
|              | Spacecraft Tracking and Data   | optical<br>UF | antidetection technology                  |                     | Croloy   |
|              | Network  | GS            | countermeasures                           |                     | high strength steels   |
|              | STADAN (satellite tracking network)                                      |               | . stealth technology                      |                     | maraging steels  |
| GS           | networks   | RT            | antiradar coatings                        |                     | nickel steels  |
|              | . tracking networks  |               | B-2 aircraft camouflage                   |                     | stainless steels austenitic stainless steels                                       |
| RT           | STDN (network) data acquisition  |               | electronic countermeasures                |                     | ferritic stainless steels  |
|              | Global Tracking Network  |               | electronic warfare                        |                     | martensitic stainless steels   |
|              | minitrack system   |               | optical countermeasures                   | RT                  | austenite  |
|              | optical tracking   |               | radar absorbers                           |                     | bainite  |
|              | range and range rate tracking satellite tracking                         |               | radar cross sections                      |                     | cementite<br>ferrites  |
|              | space detection and tracking system                                      |               | radar detection<br>radar signatures       |                     | hydrogen embrittlement   |
|              | Space Flight Tracking and Data   |               | spacecraft defense                        |                     | martensite   |
|              | Network  |               | target masking                            |                     | mischmetal   |
|              | tracking stations  |               | target recognition                        |                     | pearlite   |
| steady       | flow   |               | X-45 aircraft                             | steep ar            | adient aircraft  |
| GS           | fluid flow   | steam         |   |                     | V/STOL aircraft  |
|              | . steady flow  | RT            | boilers                                   |                     |  |
|              | Couette flow   |               | fog                                       |                     | t ascent method steepest descent method  |
|              | Hartmann flow  |               | superheating                              | USL                 | steepest descent method  |
| RT           | Ringleb flow Beltrami flow   |               | thermodynamics water                      | steepes             | t descent method   |
| IXI          | continuity equation  |               | water vapor                               | UF                  | steepest ascent method   |
|              | critical flow  |               |   | RT                  | calculus of variations   |
|              | Crocco method  | steam         |   | ~                   | dynamic programming<br>methodology   |
|              | equilibrium flow   | GS            | fluid flow                                |                     | minima   |
| ~            | flow<br>flow characteristics   | RT            | . steam flow critical flow                |                     | optimization   |
|              | flow geometry  |               | gas flow                                  |                     | parameter identification   |
|              | flow stability   |               | laminar flow                              |                     | system identification  |
|              | gas flow   |               | mass flow                                 | steepne             | SS   |
|              | heat transmission  |               | multiphase flow orifice flow              |                     | slopes   |
|              | hydrodynamic coefficients<br>laminar flow                                |               | pipe flow                                 |                     |  |
|              | liquid flow  |               | pipelines                                 |                     | le antennas  Directional antennas whose major lobe                                 |
|              | low turbulence   |               | pressure gradients                        |                     | readily shifted in direction.  |
|              | mass flow  |               | single-phase flow                         | GS                  | antennas   |
|              | method of characteristics<br>multiphase flow                             |               | steady flow<br>subcritical flow           |                     | . directional antennas   |
|              | nonNewtonian flow  |               | supercritical flow                        |                     | steerable antennas   |
|              | orifice flow   |               | turbulent flow                            |                     | inertialess steerable antennas arrays  |
|              | parallel flow  |               | uniform flow                              |                     | . antenna arrays   |
|              | pipe flow pressure gradients   |               | unsteady flow                             |                     | steerable antennas   |
|              | quasi-steady states  | steam o       | generators                                | DT                  | inertialess steerable antennas   |
|              | single-phase flow  |               | boilers                                   | RT                  | beam steering phased arrays  |
|              | solids flow  |               |   |                     | radar antennas   |
|              | steam flow   |               | turbines                                  |                     |  |
|              | Stokes flow subcritical flow   | GS            | turbomachinery . turbines                 | steering            |  |
|              | supercritical flow   |               | steam turbines                            | GS                  | steering . beam steering   |
|              | turbulence   | RT            | axial flow turbines                       | RT ∝                | control  |
|              | turbulent flow   |               | combined cycle power generation           |                     | control rockets  |
|              | two dimensional flow uniform flow  |               | gas turbine engines<br>gas turbines       |                     | controllability  |
|              | unsteady flow  |               | turbogenerators                           |                     | electron optics<br>flight  |
|              |  |               | two stage turbines                        | ∞                   | focusing   |
| steady       |  |               | -   |                     | suspension systems (vehicles)  |
|              | The condition of a substance or sys-                                     | stearat       |   |                     | . , ,  |
|              | ose local physical and chemical proper-<br>not vary with time.           | GS            | esters<br>. stearates                     | steering            | rockets control rockets  |
|              | equilibrium  | RT            | soaps                                     | USE                 | CONTROL LOCKERS  |
|              | fluid dynamics   |               | ·   |                     | Boltzmann law  |
|              | metastable state   |               | hermophilus                               |                     | One of the radiation laws which states   |
|              | stability<br>state vectors   | GS            | microorganisms<br>. bacteria              |                     | amount of energy radiated per unit time nit surface area of an ideal black body is |
|              | 01010 1001010  |               | . Daviona                                 | ii oiii a u         | in sandos area or an lucal black body 15   |

proportional to the fourth power of the absolute stellar magnitude . . star formation temperature of the black body. stellar spectra . stellar mass accretion asteroseismology stellar spectrophotometry laws . radiation laws astrophysics . Stefan-Boltzmann law stellar composition asymptotic giant branch stars electromagnetic radiation GS composition (property) brown dwarf stars emissivity . chemical composition color-magnitude diagram flux (rate) stellar composition cosmology heat radiators abundance degenerate matter Kirchhoff law of radiation B stars galactic evolution radiative heat transfer carbon stars gravitational instability isotope ratios Hertzsprung-Russell diagram steganography horizontal branch stars stars (added April 2002) stellar models interstellar extinction DEF The art and science of communicating stellar physics late stars in a hidden manner, usually involving a message main sequence stars stellar structure embedded in a carrier medium such as print, neutral currents planetary evolution Population III stars images, or computer files. stellar convection computer information security (added June 1992) pre-main sequence stars protoplanetary disks cryptography convection . stellar convection security protoplanets . solar convection (astronomy) Stellar (star tracker) Benard cells protostars USE CCD star tracker convection currents red giant stars convective flow solar nebula stellar activity dynamo theory solar system evolution DEF A general term encompassing stellar fluid flow star formation rate phenomena such as stellar flares, starspot acfree convection stellar interiors tivity, magnetic activity, nuclear fusion, etc. Rayleigh-Benard convection stellar physics stellar activity GS stellar activity subgiant stars . solar activity stellar atmospheres . . faculae stellar interiors stellar fields . . solar flares stellar magnetic fields USE star distribution . . solar prominences stellar physics . . solar storms stellar flares . . spicules stellar cores Eiections of material from stars in DEF . . sunspots The central portion of the interior of eruptions that last from a few minutes to an hour DEF . starspots or more. stars. . . sunspots GS stellar activity GS cores . stellar flares . stellar flares stellar cores . solar flares . solar flares stellar interiors RT flare stars stellar cores cataclysmic variables ∞ flares RT astrophysics flare stars magnetic disturbances magnetohydrodynamics photosphere starquakes degenerate matter gravitational collapse stellar luminosity planetary cores stellar physics solar interior stellar radiation stars stars stellar convection stellar gravitation stellar coronas stellar interiors stellar structure GS gravitation stellar luminosity . stellar gravitation stellar magnetic fields stellar coronas DEF lonized . solar gravitation RT gravitational binding energy stellar mass ejection lonized regions about stars formed by stellar oscillations gravitational fields x rays emitted during stellar flares. First discovstellar physics ery of a stellar corona was made aboard the gravitational instability Dutch ANS satellite (1975) when permanent x stellar radiation gravitational lenses sunspot cycle ray emission from the star SIRIUS was detected stars and measured. stellar mass stellar atmospheres GS coronas stellar systems GS environments . stellar coronas . extraterrestrial environments stellar interiors . . solar corona . . stellar atmospheres ... coronal holes DEF The subsurface portions of stars. ... chromosphere . . coronal loops GS stellar interiors . . . solar atmosphere coronal mass ejection . solar interior ... solar transition region ionization . stellar cores  $RT \, \infty \, atmospheres$ Orion nebula RT asteroseismology cool stars stellar atmospheres astrophysics limb brightening stellar cores convection limb darkening gravitational collapse local thermodynamic equilibrium stellar Doppler shift nuclear fusion metallic stars USE Doppler effect stars pulsar magnetospheres stellar activity radiative transfer stellar envelopes stellar atmospheres satellite atmospheres circumstellar matter stellar convection astrophysics stellar evolution starspots stellar convection cool stars stellar models stellar coronas ∞ envelopes stellar physics interstellar matter stellar interiors stellar structure protoplanetary disks stellar magnetospheres R Coronae Borealis stars stellar luminosity shell stars GS electromagnetic properties stellar color

stellar mass accretion

evolution (development)

stellar evolution

stellar mass ejection

stellar structure

symbiotic stars

stellar evolution

GS

Wolf-Rayet stars

DEF The particular wavelengths of optical

electromagnetic properties

color-magnitude diagram

. optical properties

. . stellar color color-color diagram

stellar luminosity

radiation emitted by a star.

. . color

. optical properties . . luminosity

brightness

. . stellar luminosity

brightness distribution Hertzsprung-Russell diagram horizontal branch stars

limb brightening

limb darkening

### stellar magnetic fields

luminescence mass to light ratios red dwarf stars red giant stars starspots stellar activity stellar color stellar flares stellar parallax stellar physics Wolf-Rayet stars

#### stellar magnetic fields

magnetic fields

#### . stellar magnetic fields

. solar magnetic field electromagnetic fields interstellar magnetic fields magnetic field configurations plasmas (physics) pulsar magnetospheres starspots stellar activity stellar convection stellar magnetospheres

#### stellar magnetospheres

# (added July 1988) GS stellar magnetospheres

. pulsar magnetospheres magnetic fields

∞ magnetospheres stellar atmospheres stellar magnetic fields

#### stellar magnitude

DEF The measure of the relative brightness of a star. Stellar magnitudes are expressed in a variety of ways, according to the method or process of observation or determination.

GS magnitude

### . stellar magnitude

astronomy

color-magnitude diagram

∞ intensity **luminance** luminous intensity red dwarf stars stars stellar color stellar parallax

#### stellar mass

GS mass

#### stellar mass

degenerate matter galactic mass main sequence stars mass to light ratios massive stars novae stellar gravitation stellar temperature supernovae variable stars

#### stellar mass accretion

DEF Process by which a star accumulates matter as it moves through dense clouds of interstellar gas.

evolution (development)

. stellar evolution

### . stellar mass accretion

RT accretion disks cosmology dwarf novae galactic evolution gravitational effects interstellar gas interstellar matter protostars star formation stellar envelopes stellar physics symbiotic stars x ray binaries

## stellar mass ejection

GS ejection

. stellar mass ejection

. . coronal mass ejection asymptotic giant branch stars cataclysmic variables dwarf novae magnetic clouds

novae R Coronae Borealis stars

stellar activity stellar envelopes supernovae variable stars Wolf-Rayet stars

#### stellar models

models

. astronomical models

#### . stellar models

astronomy solar neutrinos solar oscillations stellar composition stellar interiors supermassive stars

#### stellar motions

stellar motions GS

. stellar orbits

. stellar oscillations

. . solar oscillations

. stellar rotation

. solar rotation

companion stars

Doppler effect Doppler-Fizeau effect

double stars

galactic rotation Hipparcos satellite

 $\infty$  motion

proper motion sidereal time stellar parallax stellar systems

#### stellar occultation

GS occultation

stellar occultation

asteroid detection eclipsing binary stars lunar occultation

### stellar orbits

(EXCLUDES PLANETARY ORBITS)

GS orbits

. stellar orbits

stellar motions stellar orbits

RT celestial mechanics Nemesis (star)

retrograde orbits

#### stellar oscillations

DEF Irregular fluctuations of the stellar atmospheres.

oscillations GS

### . stellar oscillations

. solar oscillations stellar motions

. stellar oscillations

. solar oscillations asteroseismology

astronomical models astronomy

astrophysics atmospheric models

cataclysmic variables

Mira variables stars

stellar activity symbiotic stars variable stars

#### stellar parallax

DEF The subtended angle at a star formed by the mean radius of the Earth's orbit; it indicates distance to a star.

parallax GS

## stellar parallax

RT astrometry binary stars Hipparcos satellite solar parallax stellar luminosity stellar magnitude stellar motions

stellar physics DEF A term A term that encompasses the physical properties of stars, such as luminosity, size, mass, density, temperature, chemical composition, evolution, activity, etc.

GS astrophysics

#### . stellar physics

. solar physics

asteroseismology

local thermodynamic equilibrium

nuclear astrophysics

nuclear fusion

∞ science starquakes stellar activity stellar composition stellar convection stellar evolution

stellar flares stellar interiors stellar luminosity stellar mass accretion stellar radiation

stellar rotation stellar structure supernovae

#### stellar radiation

GS extraterrestrial radiation

. stellar radiation

. . stellar winds cosmic rays

electromagnetic radiation galactic radiation gamma ray bursts Herbig-Haro objects interstellar extinction interstellar radiation

light curve

microwave emission

polarized electromagnetic radiation

 radiation radiative transfer radio bursts radio stars solar radiation starspots stellar activity

stellar flares stellar physics x ray stars

### stellar rotation

GS gyration

. rotation

. . stellar rotation

. solar rotation stellar motions

. stellar rotation

. . solar rotation

angular momentum corotation planetary rotation starquakes stellar physics

stellar seismology (added March 2001) USE asteroseismology

#### stellar spectra

GS spectra

. radiation spectra

. . electromagnetic spectra

... stellar spectra . . . solar spectra

absorption spectra

astronomical spectroscopy color-color diagram continuous spectra cool stars emission spectra

F stars

G stars

Herbig-Haro objects . . . . space plasmas RT switching Hertzsprung-Russell diagram ... stellar winds stepped leaders horizontal branch stars . corpuscular radiation (added August 1999) infrared spectra . . energetic particles K stars ... plasmas (physics) GS electric current . . . space plasmas . electric discharges line spectra molecular spectra ... stellar winds . . lightning ... leaders (meteorology) peculiar stars chromosphere Seyfert galaxies cosmic plasma .... stepped leaders galactic winds stellar color intergalactic media steppes symbiotic stars GS landforms ultraviolet spectra interstellar gas . steppes arid lands visible spectrum radiation pressure x ray spectra solar wind desertification solar wind velocity grasslands stellar spectrophotometry GS optical measurement stellarators plains . photometry Experimental thermonuclear devices . . astronomical photometry stepping motors where containment in a magnetic field is Motors whose rotations are in short achieved by closing the field upon itself and thus ... stellar spectrophotometry and essentially uniform angular movements . . spectrophotometry allowing the particles to perform endless spiral rather than a continuous motion.

GS electromechanical devices . . stellar spectrophotometry motion. spectroscopy
. astronomical spectroscopy GS nuclear reactors . electric motors . fusion reactors . stellarators . . stepping motors . . stellar spectrophotometry . spectrophotometry motors helical windings . . stellar spectrophotometry color-color diagram horizontal branch stars . electric motors heliotrons magnetohydrodynamics pinch effect stepping motors RT actuators servocontrol infrared photometry plasma control servomechanisms peculiar stars thermal instability spectroscopic telescopes thermonuclear power generation stepping switches stellar color thermonuclear reactions switches superhumps (astronomy) toroidal plasmas . electric switches Stellite (trademark) . . stepping switches stellar structure Haynes Stellite RT chromosphere ∞ steps coronal holes RT chromium allovs (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) dense plasmas cobalt alloys metallic stars tungsten alloys peculiar stars backward facing steps solar atmosphere stem cells programming (scheduling) (added August 2004) solar corona stairsteps Relatively undifferentiated cells that resolar interior step functions tain the ability to divide and proliferate throughstarquakes stellar composition out postnatal life to provide progenitor cells that STEREO (observatory) stellar cores can differentiate into specialized cells (added July 2007) stellar envelopes GS cells (biology) DEF Two nearly identical space-based obstellar interiors stem cells servatories traveling in offset orbits to provide stellar physics RT biotechnology 3-D stereoscopic images of the sun. Launched ∞ structures cell division on October 26, 2006 as part of NASA's Solar culture techniques Terrestrial Probes Program, the observatories supermassive stars cytology will be used to characterize coronal mass ejections, energetic particle acceleration in the low stellar systems (EXCLUDES PLANETARY SYSTEMS) stems corona and interplanetary medium, and improve Gravitationally bound groups of stars. RT plants (botany) the determination of the structure of the ambient SN (Excludes planetary systems).

GS celestial bodies solar wind. stencil processes Solar Terrestrial Relations stellar systems printing Observatory binary stars reproduction (copying) observatories galactic clusters . astronomical observatories galactic rotation step faults . . solar observatories galactic structure USE geological faults . . STEREO (observatory) galaxies coronal mass ejection step functions gravitational collapse solar activity gravitational effects GS functions (mathematics) solar terrestrial interactions interacting galaxies step functions space missions Nemesis (star) dynamic response stereoscopy Sigma Orionis frequency response star clusters intervals stereochemistry star distribution ramp functions DEF Chemistry dealing with the arrangement of atoms and molecules in three dimenreaction time stellar gravitation stellar motions ∞ steps carbohydrates triple stars step recovery diodes ∞ chemistry stellar temperature Varactors in which forward voltage inenantiomers temperature jects carriers across the junction, but before the isomers . stellar temperature carriers can combine, the voltage reverses and optical activity cool stars carriers return to their origin in a group. The spatial distribution result is an abrupt cessation of reverse current stellar mass x ray analysis and a harmonic rich waveform. symbiotic stars GS electronic equipment stereography stellar winds . diodes USE stereophotography extraterrestrial radiation . . semiconductor diodes

... junction diodes

. solid state devices . . semiconductor devices

. . . junction diodes

. . . . step recovery diodes

.... step recovery diodes

RT

GS

. stellar radiation

. . stellar winds

. charged particles

. . energetic particles

. . . plasmas (physics)

particles

The use of two sound channels to

mimic normal hearing. Stereophonic satellite

stereolithography

stereophonics

DEF

USE lithography

### stereophotography

broadcasting has now been developed. RT thorax distillation equipment acoustics stimulants hearing steroids GS organic compounds GS druas stimulants stereophotography . lipids steroids UF stereography . . atropine . . caffeine stereoscopic photography ... cholesterol GS imagery ... corticosteroids . . central nervous system stimulants . photography ... aldosterone . norepinephrine . . stereoscopy . . . . hydroxycorticosteroid aminophylline . . stereophotography epinephrine . . . . . cortisone aerial photography strychnine . . . . glucocorticoids black and white photography . . . estrogens stimulated emission cinematography . prostaglandins color photography antibiotics GS emission stimulated emission Mapsat hormones photogrammetry argon lasers carbon dioxide lasers SPOT (French satellite) stethoscopes carbon lasers medical equipment GS stereoscopic photography carbon monoxide lasers stethoscopes coherent electromagnetic radiation USE stereophotography RT physicians coherent light stereoscopic vision electron emission stiction electron pumping GS (added May 2003) stereoscopic vision gallium arsenide lasers DEF Adhesion between two bodies in conbinocular vision gas lasers tact due to surface forces. stereoscopy gas masers GS surface properties **HCN** lasers . adhesion interstellar masers stereoscopy stiction GS imagery lasers friction light emission . photography interfacial energy . . stereoscopy masers . . stereophotography nuclear pumping Stieltjes integral STEREO (observatory) optical pumping GS analysis (mathematics) particle emission stereoscopic vision real variables photoelectric emission . . measure and integration stereotelevision population inversion Stieltjes integral communication equipment rapid ballistics identification RT probability theory stereotelevision rare gas-halide lasers telecommunication self sustained emission stiff structures . stereotelevision surface emitting lasers USE rigid structures television systems TEA lasers stereotelévision two-wavelength lasers stiffening ultrashort pulsed lasers closed circuit television RT reinforcement (structures) color television ultraviolet lasers ribs (supports) communicating webs (supports) educational television stimulated emission devices satellite television quantum generators stiffness stimulated emission devices spacecraft television DEF The ratio of change of force (or torque) . lasers to the corresponding change in translational (or rotational) displacement of an elastic element. . . airborne lasers sterilization GS cleaning . . argon lasers mechanical properties GS . . atmospheric lasers . sterilization stiffness . . chemical sterilization . . carbon lasers RT . spacecraft sterilization bending . . chemical lasers RT air purification antifouling deformation . . . HCL lasers flexibility . . . . HCL argon lasers antiseptics bactericides modulus of elasticity . . . chemical oxygen-iodine lasers ∞ rigidity . . continuous wave lasers . distributed feedback lasers
. free electron lasers softness baking structural stability decontamination . . gamma ray lasers fumigation stiffness matrix gnotobiotics . . gas lasers GS algebra housekeeping (spacecraft) . . carbon dioxide lasers . vector spaces ionizing radiation carbon monoxide lasers . . matrices (mathematics) mercury lamps DF lasers . . stiffness matrix pasteurizing excimer lasers structural analysis purification **HCL** lasers structural members ultraviolet radiation . HCL argon lasers **HCN** lasers stigmatism sterilization effects helium-neon lasers electromagnetic properties . optical properties chemical effects GS HF lasers corrosion ... nitrogen lasers stigmatism decontamination . . . rare gas-halide lasers degradation RT astigmatism ... krypton fluoride lasers deoxification focusing .... xenon chloride lasers ∞ effects lens design . xenon fluoride lasers radiation effects lenses ... TEA lasers spacecraft sterilization ... ultraviolet lasers stilbene temperature effects . . gasdynamic lasers organic compounds thermal degradation . . glass lasers . hydrocarbons . . high power lasers . stilbene sterns Nova Laser System . . . Shiva laser system USE afterbodies RT dves hexanitrostilbene . . infrared lasers . . injection lasers sternum stills . quantum cascade lasers GS anatomy . musculoskeletal system .. iodine lasers separators GS . chemical oxygen-iodine lasers . . bones stills RT . . . sternum concentrators . . liquid lasers

|                                | metal vapor lasers  |          | y isothermal expansion with heat addi-   |                          | random noise   |
|--------------------------------|---|----------|--|--------------------------|--|
|                                | neodymium lasers  |          | e heat is then rejected at constant vol-   |                          | random signals   |
|                                | nuclear pumped lasers   | ,        | llowed by isothermal compression with  |                          | state estimation   |
|                                | organic lasers  | heat rej | ection.  |                          | statistical analysis   |
|                                | dye lasers  | GS       | cycles   |                          | ∞ statistics   |
|                                | . plasmadynamic lasers  |          | . thermodynamic cycles   |                          | time dependence  |
|                                | pulsed lasers   |          | Stirling cycle   |                          | time functions   |
|                                | Q switched lasers   | RT       | Carnot cycle   |                          | time series analysis   |
|                                | ultrashort pulsed lasers  |          | solar dynamic power systems  |                          | •  |
|                                | ultraviolet lasers  |          | Stirling engines   | stockp                   | iling  |
|                                | Raman lasers  |          | S.m.ng s.ngss  | RT                       | accumulations  |
|                                | ring lasers   | Stirling | engines  |                          | collection   |
|                                | semiconductor lasers  |          | engines  |                          | inventory management   |
|                                | aluminum gallium arsenide lasers  |          | external combustion engines  |                          | logistics  |
|                                | gallium arsenide lasers   |          | Stirling engines   |                          | reserves   |
|                                | quantum cascade lasers  |          | . piston engines   | ,                        | ∞ storage  |
|                                | quantum vell lasers   |          | Stirling engines   | ,                        | strategic materials  |
|                                | YLF lasers  | RT       | automobile engines   |                          | strategie materials  |
|                                |   | 131      | engine design  | stoichi                  | ometry   |
|                                | solar-pumped lasers solid state lasers  |          | engine tests   |                          | chemical reactions   |
|                                | aluminum gallium arsenide lasers  |          | free-piston engines  |                          | ∞ chemistry  |
|                                | DBR lasers  |          | linear alternators   |                          | ∞ composition  |
|                                | fiber lasers  |          | Stirling cycle   |                          | composition (property)                                       |
|                                | gallium arsenide lasers   |          | Carring Syste  |                          | formulations   |
|                                | quantum cascade lasers  | stirring |  |                          | material balance   |
|                                | quantum vell lasers   | RT       |  |                          | phase diagrams   |
|                                |   |          | dispersing   |                          | priado diagramo  |
|                                | ruby lasers<br>YAG lasers   |          | friction stir welding  | Stokes                   | flow   |
|                                |   |          | mixers   |                          | fluid flow   |
|                                | YLF lasers spaceborne lasers  |          | suspending (mixing)  |                          | . incompressible flow  |
|                                |   |          | swirling   |                          | Stokes flow  |
|                                | surface emitting lasers   |          | SWIIIII 9  |                          | viscous flow   |
|                                | tunable lasers  | stishov  | ite  |                          | Stokes flow  |
|                                | two-wavelength lasers   | DEF      | A mineral consisting essentially of sili-  | DT                       | Oseen approximation  |
|                                | waveguide lasers  | con trio |  | KI                       | • •  |
|                                | fiber lasers  | GS       | chalcogenides  |                          | steady flow  |
|                                | x ray lasers  | 00       | . oxides   | ∞ Stokes                 | law  |
|                                | . masers  |          | dioxides   |                          |  |
|                                | gas masers  |          |  | SN                       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|                                | hydrogen masers   |          | silicon dioxide  |                          | LISTED BELOW)  |
|                                | interstellar masers   |          | quartz   | RT                       | laws   |
|                                | proton masers   |          | stishovite   |                          | Maxwell equation   |
|                                | traveling wave masers   |          | silicon oxides silicon dioxide   |                          | Stokes law (fluid mechanics)                                 |
|                                | water masers  |          |  |                          | Stokes theorem (vector calculus)                             |
| RT                             | amplifiers  |          | quartz   |                          |  |
|                                | coherent electromagnetic radiation  |          | stishovite   |                          | law (fluid mechanics)  |
|                                | diffraction radiation   |          | minerals   | RT                       | settling   |
|                                | electron pumping  |          | . quartz   |                          | Stokes law   |
| 0                              | o generators  |          | . stishovite   |                          | viscosity  |
|                                | laser arrays  |          | silicon compounds  |                          |  |
|                                | laser cavities  |          | . silicon oxides   | Stokes                   | law of radiation   |
|                                | laser pumping   |          | silicon dioxide  | GS                       | laws   |
|                                | laser weapons   |          | quartz   |                          | . radiation laws   |
|                                | lasing  | рт       | stishovite   |                          | Stokes law of radiation                                      |
|                                | light transmission  | RT       | coesite  | RT                       | incident radiation   |
|                                | nuclear pumping   |          | Earth crust  |                          | luminescence   |
|                                | optical pumping   |          | Earth mantle   |                          | ∞ radiation  |
|                                | rapid ballistics identification   |          | rutile   |                          | wavelengths  |
|                                | subharmonic generators  | -4       | -t'  |                          |  |
|                                | transient oscillations  |          | stic processes   | Stokes                   | theorem (vector calculus)                                    |
|                                |   |          | Ordered sets of observations in one or   | GS                       | algebra  |
| stimula                        | tion  |          | mensions, each being considered as a   |                          | . vector spaces  |
| GS                             | stimulation   |          | of one item from a probability distribu-   |                          | Stokes theorem (vector calculus)                             |
|                                | . auditory stimuli  |          | ed for Poisson process.  |                          | theorems   |
|                                | . sensory stimulation   | UF       | r r  |                          | . Stokes theorem (vector calculus)                           |
| RT                             | activation  | GS       | stochastic processes   | RT «                     | ∞ Stokes law   |
|                                | activation (biology)  |          | . Markov processes   |                          |  |
|                                | actuation   |          | Markov chains  |                          | -Beltrami equation   |
|                                | cloud seeding   |          | . random processes   | RT «                     | ∞ equations  |
|                                | gas injection   | БТ       | random walk  |                          | Laplace equation   |
|                                | initiation  | KI °     | • applications of mathematics  |                          | stream functions (fluids)                                    |
|                                | pressurizing  |          | attractors (mathematics)   |                          |  |
|                                | starting  |          | autoregressive moving average  | STOL a                   |  |
|                                |   |          | chaos  | USE                      | short takeoff aircraft                                       |
| ∞ stimuli                      |   |          | coherence coefficient  |                          |  |
| SN                             | (USE OF A MORE SPECIFIC TERM IS   |          | decision theory  | stomac                   |  |
|                                | RECOMMENDEDCONSULT THE TERMS  |          | differential games   | GS                       | ,  |
| RT                             | LISTED BELOW)<br>arousal  |          | ergodic process  |                          | digestive system   |
| 17.1                           | urououl   |          | events Fokker-Planck equation  |                          | gastrointestinal system                                      |
|                                | auditory stimuli  |          | Fokker-Planck equation   |                          | stomach  |
|                                | auditory stimuli  |          | acres the com.   |                          |  |
|                                | caloric stimuli   |          | game theory  | RT                       | abdomen  |
|                                | caloric stimuli electric stimuli  |          | information theory   |                          |  |
|                                | caloric stimuli<br>electric stimuli<br>motivation   |          | information theory<br>Kakutani theorem   | stones                   | (rocks)  |
|                                | caloric stimuli electric stimuli motivation psychological factors   |          | information theory<br>Kakutani theorem<br>Kalman-Schmidt filtering   | stones                   |  |
|                                | caloric stimuli<br>electric stimuli<br>motivation<br>psychological factors<br>subliminal stimuli                      |          | information theory Kakutani theorem Kalman-Schmidt filtering martingales   | stones<br>USE            | (rocks) rocks  |
|                                | caloric stimuli electric stimuli motivation psychological factors subliminal stimuli visual stimuli                   |          | information theory<br>Kakutani theorem<br>Kalman-Schmidt filtering<br>martingales<br>mathematical models   | stones<br>USE<br>stony r | (rocks)<br>rocks<br>neteorites                               |
|                                | caloric stimuli<br>electric stimuli<br>motivation<br>psychological factors<br>subliminal stimuli                      |          | information theory Kakutani theorem Kalman-Schmidt filtering martingales mathematical models Monte Carlo method  | stones<br>USE            | (rocks) rocks meteorites celestial bodies                    |
| Q4 <sup>1</sup> 1 <sup>1</sup> | caloric stimuli electric stimuli motivation psychological factors subliminal stimuli visual stimuli zeitgebers        |          | information theory Kakutani theorem Kalman-Schmidt filtering martingales mathematical models Monte Carlo method operations research                    | stones<br>USE<br>stony r | (rocks) rocks meteorites celestial bodies . meteorites       |
| Stirling                       | caloric stimuli electric stimuli motivation psychological factors subliminal stimuli visual stimuli zeitgebers  cycle |          | information theory Kakutani theorem Kalman-Schmidt filtering martingales mathematical models Monte Carlo method operations research probability theory | stones<br>USE<br>stony r | rocks) rocks neteorites celestial bodies . meteorites        |
| DEF                            | caloric stimuli electric stimuli motivation psychological factors subliminal stimuli visual stimuli zeitgebers        |          | information theory Kakutani theorem Kalman-Schmidt filtering martingales mathematical models Monte Carlo method operations research                    | stones<br>USE<br>stony r | (rocks) rocks meteorites celestial bodies . meteorites       |

|         | chassignites                       |           | scattering cross sections                     |          | metal air batteries                     |
|---------|------------------------------------|-----------|---|----------|---|
|         | Kapoeta achondrite                 |           |   |          | nickel iron batteries                   |
|         | nakhlites                          |           | propellants                                   |          | nonaqueous electrolytes                 |
|         | Norton County achondrite           | GS        | consumables (spacecraft)                      |          | primary batteries                       |
|         | shergottites SNC meteorites        |           | . storable propellants                        |          | pulse charging regenerative fuel cells  |
|         | ureilites                          |           | propellants . storable propellants            |          | regenerative ruer cens                  |
|         | carbonaceous meteorites            | RT        | cryogenic rocket propellants                  | storage  | rings (particle accelerators)           |
|         | carbonaceous chondrites            | 17.1      | gaseous rocket propellants                    | UF       | electron ring accelerators              |
|         | Alais meteorite                    |           | gelled rocket propellants                     | GS       | particle accelerators                   |
|         | Allende meteorite                  |           | ground support equipment                      |          | . cyclic accelerators                   |
|         | Cold Bokkeveld meteorite           |           | high temperature propellants                  |          | synchrotrons                            |
|         | Ivuna meteorite                    |           | hydrocarbon fuels                             |          | storage rings (particle                 |
|         | Murchison meteorite                |           | hypergolic rocket propellants                 |          | accelerators)                           |
|         | Murray meteorite                   |           | liquid rocket propellants                     | RI∝      | accelerators                            |
|         | Orgueil meteorite                  |           | propellant additives                          |          | Q values (nuclear physics)              |
|         | Tonk meteorite ureilites           |           | propellant decomposition                      | ~        | rings<br>superconducting super collider |
|         | chondrites                         |           | propellant evaporation                        |          | superconducting super conider           |
|         | Bruderheim meteorite               |           | propellant sensitivity propellant storability | storage  | stability                               |
|         | carbonaceous chondrites            |           | propellant storage                            | GS       | life (durability)                       |
|         | Alais meteorite                    |           | rocket propellants                            |          | storage stability                       |
|         | Allende meteorite                  |           | solid propellants                             |          | stability                               |
|         | Cold Bokkeveld meteorite           |           | space storage                                 |          | . storage stability                     |
|         | Ivuna meteorite                    |           |   | RT       | decomposition                           |
|         | Murchison meteorite                | ∞ storage | •   |          | liquid sloshing<br>long term effects    |
|         | Murray meteorite                   | SN        | (USE OF A MORE SPECIFIC TERM IS               |          | static stability                        |
|         | Orgueil meteorite                  |           | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW) |          | surface stability                       |
|         | Tonk meteorite Harleton meteorite  | RT        | buffer storage                                |          | thermal stability                       |
|         | Hvittis chondrite                  |           | computer storage devices                      |          | thornar otability                       |
|         | Okhansk meteorite                  |           | core storage                                  | storage  | tanks                                   |
|         | Pantar chondrites                  |           | cryogenic fluid storage                       |          | tanks (containers)                      |
|         | Pribram meteorite                  |           | data storage                                  |          | . storage tanks                         |
|         | tektites                           |           | disposal                                      | RT       | cryogenic fluid storage                 |
|         | australites                        |           | document storage                              |          | cryogenic tanks                         |
|         | bediasites                         |           | energy storage external store separation      |          | cylindrical tanks                       |
|         | Tungusk meteorite                  |           | external stores                               |          | expulsion bladders                      |
| RT      | coesite                            |           | fluid filled shells                           |          | external tanks<br>fuel tanks            |
|         | iron meteorites Lazarev meteorite  |           | handling equipment                            |          | pipelines                               |
|         | meteoritic composition             |           | inventories                                   |          | pressure vessels                        |
|         | meteoritic composition             |           | inventory controls                            |          | propellant tanks                        |
|         | schreibersite                      |           | inventory management                          |          | space storage                           |
|         | stony-iron meteorites              |           | ion storage                                   |          | spherical tanks                         |
|         | •                                  |           | liquid filled shells                          | ~        | storage                                 |
| otony i | on motocritos                      |           | logistics                                     |          | tank geometry                           |
|         | on meteorites<br>ed December 1988) |           | logistics management magnetic storage         |          | underground storage                     |
|         | celestial bodies                   |           | materials handling                            |          | wing-fuselage stores                    |
| 00      | . meteorites                       |           | missile silos                                 | store re | lease                                   |
|         | stony-iron meteorites              |           | missile storage                               | USE      | external store separation               |
| RT      | iron meteorites                    |           | packaging                                     | 002      | oxtornal otoro coparation               |
|         | stony meteorites                   |           | pipelines                                     | storm d  | lamage                                  |
|         |                                    |           | preserving                                    | GS       | damage                                  |
| stopcoc | ke                                 |           | propellant storage                            |          | . storm damage                          |
| USE     | cocks                              |           | racks (frames)                                | RT       | cyclones                                |
| OOL     | COCKS                              |           | recording                                     |          | flood control                           |
|         |                                    |           | reserves                                      |          | floods                                  |
| stoppin | •                                  |           | retaining<br>safety                           |          | gusts<br>hailstorms                     |
| UF      | terminating                        |           | space storage                                 |          | hurricanes                              |
| GS      | stopping<br>thrust termination     |           | stockpiling                                   |          | landslides                              |
| RT      | . thrust termination blocking      |           | storage tanks                                 |          | precipitation (meteorology)             |
| IXI     | cancellation                       |           | stowage (onboard equipment)                   |          | rainstorms                              |
|         | closing                            |           | underground storage                           |          | snow cover                              |
|         | constrictions                      |           | waste disposal                                |          | storm surges                            |
|         | containment                        |           | wing-fuselage stores                          |          | storms                                  |
|         | damping                            |           |   |          | thunderstorms                           |
|         | deceleration                       |           | batteries                                     |          | tornadoes                               |
|         | delay                              | SN<br>UF  | (RECHARGEABLE BATTERIES) secondary batteries  |          | tropical storms                         |
|         | elimination                        | GS        | electrochemical cells                         |          | typhoons<br>wind (meteorology)          |
|         | holding                            | 00        | . electric batteries                          |          | willa (meteorology)                     |
| 0       | inhibition<br>optimization         |           | storage batteries                             | storm e  | nhancement                              |
|         | plugs                              |           | lead acid batteries                           | GS       | weather modification                    |
|         | prevention                         |           | nickel cadmium batteries                      |          | . storm enhancement                     |
| 0       | reduction                          |           | nickel hydrogen batteries                     | RT       | climatology                             |
|         | retarding                          |           | nickel zinc batteries                         |          | hailstorms                              |
|         | sealing                            |           | silver cadmium batteries                      |          | precipitation (meteorology)             |
|         |                                    |           | silver hydrogen batteries                     |          | rainstorms                              |
| etonni- | a nower                            |           | silver zinc batteries zinc-bromide batteries  |          | snowstorms<br>storms                    |
| RT      | g power<br>absorbers (materials)   |           | zinc-biornide batteries                       |          | storms (meteorology)                    |
| 13.1    | absorption cross sections          | RT        | alkaline batteries                            |          | c.c.mo (motoorology)                    |
| 0       | cross sections                     | 131       | battery chargers                              | storm s  | suppression                             |
|         | density (mass/volume)              |           | charge efficiency                             | GS       | weather modification                    |
|         | neutron cross sections             |           | dry cells                                     |          | storm suppression                       |
|         | radiation absorption               |           | electrolytes                                  | RT       | climatology                             |
|         | radiation shielding                |           | lithium batteries                             |          | hailstorms                              |

|         | ice prevention                  | meteorological parameters                    | RT       | pressure gages                            |
|---------|---------------------------------|--|----------|---|
|         | precipitation (meteorology)     | meteorology                                  |          |   |
|         | rainstorms                      | precipitation (meteorology)                  | strain o | gage balances                             |
|         | snowstorms                      | snow   |          | measuring instruments                     |
|         |                                 |  | 00       | . indicating instruments                  |
|         | storms                          | snow cover                                   |          | •   |
|         |                                 | squalls                                      |          | weight indicators                         |
| storm s |                                 | storm enhancement                            |          | strain gage balances                      |
| RT      | coasts                          | storm surges                                 | RT       | pressure gages                            |
|         | hurricanes                      | watersheds                                   |          |   |
|         | ocean surface                   | weather forecasting                          | strain ( | gages                                     |
|         | oceanography                    | wind (meteorology)                           | DEF      | Instruments used to measure the           |
|         | storm damage                    | wind (motoorology)                           |          | f distortion in a member or test specime  |
|         | storms (meteorology)            | O. O   |          | s a structural part) subjected to a force |
|         |                                 | StormSat satellite                           |          |   |
|         | surges                          | DEF A synchronous Earth-pointing satellite   | GS       | measuring instruments                     |
|         |                                 | for severe storms studies. Used for Severe   |          | strain gages                              |
| storms  |                                 | Storms Observing Satellite.                  | RT       | cable force recorders                     |
| GS      | storms                          | UF Severe Storms Observing Satellite         |          | deformeters                               |
|         | . ionospheric storms            | GS artificial satellites                     |          | elastometers                              |
|         | sudden ionospheric disturbances | . synchronous satellites                     |          | extensometers                             |
|         | . magnetic storms               | StormSat satellite                           |          | flight load recorders                     |
|         | polar substorms                 |  |          | mechanical measurement                    |
|         | . noise storms                  | RT NASA programs                             |          | piezoelectric gages                       |
|         | . solar storms                  |  |          |   |
|         |                                 | Stoss-and-Lee topography                     |          | pressure gages                            |
|         | . storms (meteorology)          | USE glacial drift                            |          | rosette shapes                            |
|         | cyclones                        | <b>9</b>                                     |          | shock measuring instruments               |
|         | hurricanes                      | STOVL aircraft                               |          | strain measurement                        |
|         | Anna hurricane                  | 0.0.0  |          | stress measurement                        |
|         | typhoons                        | (added July 1991)                            |          | temperature inversions                    |
|         | downbursts                      | UF short takeoff & vertical landing aircraft |          | tensometers                               |
|         | microbursts (meteorology)       | RT fighter aircraft                          |          | transducers                               |
|         | dust storms                     | lift augmentation                            |          |   |
|         |                                 | powered lift aircraft                        |          | weight indicators                         |
|         | hailstorms                      | short takeoff aircraft                       |          |   |
|         | rainstorms                      | V/STOL aircraft                              |          | nardening                                 |
|         | thunderstorms                   |  | GS       | hardening (materials)                     |
|         | snowstorms                      | vertical landing                             |          | . work hardening                          |
|         | tornadoes                       |  |          | strain hardening                          |
|         | tropical storms                 | stowage (onboard equipment)                  | RT       | aging (materials)                         |
|         | hurricanes                      | RT logistics                                 | 17.1     | aging (matchais)                          |
|         |                                 | onboard equipment                            |          |   |
|         | Anna hurricane                  | portable equipment                           |          | precipitation hardening                   |
|         | typhoons                        | provisioning                                 |          | residual stress                           |
| RT      | climatology                     |  |          | shot peening                              |
|         | cold fronts                     | space logistics                              |          | stress relieving                          |
| 00      | o disturbances                  | space rations                                |          | temperature inversions                    |
|         | flood damage                    | ∞ storage                                    |          | •   |
|         | floods                          |  | strain ı | measurement                               |
|         | fronts (meteorology)            | straight wings                               |          | ∞ measurement                             |
|         | ·                               | USE rectangular wings                        | 171      |   |
|         | gusts                           | OOL rectangular wings                        |          | shearography                              |
|         | precipitation (meteorology)     |  |          | smart structures                          |
|         | snow cover                      | strain aging                                 |          | strain distribution                       |
|         | solar terrestrial interactions  | USE precipitation hardening                  |          | strain gages                              |
|         | storm damage                    |  |          | strain rate                               |
|         | storm enhancement               | strain distribution                          |          | stress-strain diagrams                    |
|         | storm suppression               |  |          | stress-strain relationships               |
|         |                                 | 4 -1 - 37                                    |          | ·   |
|         | sudden storm commencements      | strain distribution                          |          | structural strain                         |
|         | warm fronts                     | RT crack propagation                         |          |   |
|         | weather forecasting             | deformation                                  | strain i |   |
|         | wind (meteorology)              | elastic deformation                          | GS       | rates (per time)                          |
|         |                                 | fracture mechanics                           |          | . strain rate                             |
| storms  | (meteorology)                   | plastic deformation                          | RT       | impact tests                              |
| GS      | storms                          | strain measurement                           |          | loading rate                              |
|         | . storms (meteorology)          |  |          | mechanical properties                     |
|         | cyclones                        | strain rate                                  |          | Portevin-le Chatelier effect              |
|         |                                 | stress concentration                         |          |   |
|         | hurricanes                      | stress distribution                          |          | strain distribution                       |
|         | Anna hurricane                  | stress-strain relationships                  |          | strain energy release rate                |
|         | typhoons                        | •  |          | strain measurement                        |
|         | downbursts                      | strain energy methods                        |          | temperature inversions                    |
|         | microbursts (meteorology)       |  |          |   |
|         | dust storms                     | GS structural analysis                       | strain s | oftening                                  |
|         | hailstorms                      | . energy methods                             | USE      | plastic deformation                       |
|         | rainstorms                      | strain energy methods                        | 002      | plactic actormation                       |
|         |                                 | RT ∞ energy                                  | -4!4-    |   |
|         | thunderstorms                   | ∞ methodology                                | straits  | B 1 2 1                                   |
|         | snowstorms                      | seismic energy                               | DEF      | Relatively narrow waterways connect       |
|         | tornadoes                       | colonia chorgy                               | ing two  | larger bodies of water.                   |
|         | tropical storms                 |  | GS       | passageways                               |
|         | hurricanes                      | strain energy release rate                   |          | . straits                                 |
|         | Anna hurricane                  | GS rates (per time)                          |          | Torres Strait                             |
|         | typhoons                        | . strain energy release rate                 | RT       | canals                                    |
| RT      |                                 | RT elastic deformation                       | 17.1     | Gibraltar                                 |
| KI      | Alpine meteorology              | elastic properties                           |          |   |
|         | climatology                     | relaxation (mechanics)                       |          | lakes                                     |
|         | cyclogenesis                    | · · · · · · · · · · · · · · · · · · ·        |          | seas                                      |
|         | flight conditions               | strain rate                                  |          | water                                     |
|         | flood control                   | stress relaxation                            |          | waterways                                 |
|         | flood damage                    |  |          | •   |
|         | flood predictions               | strain fatigue                               | strakes  | •   |
|         | floods                          | USE fatigue (materials)                      | GS       | structural members                        |
|         |                                 | 552 .ag.o (materiale)                        | GS       |   |
|         | GOES 13                         |  |          | strakes                                   |
|         | ground wind                     | strain gage accelerometers                   | RT       | aerodynamic configurations                |
|         | gusts                           | GS measuring instruments                     |          | hulls (structures)                        |
|         | hail                            | . accelerometers                             |          | longerons                                 |
|         | ice                             | strain gage accelerometers                   |          | metal strips                              |
|         | * *                             |  |          |   |

| rectangular panels   | operations research                             | mesosphere   |
|--|---|--|
| reinforcement (structures)   | risk  | mesosphere   |
| water tunnel tests   | warfare   | Stratoscope 1 telescope  |
|  |   | USE stratoscope telescopes   |
| strands  | stratification                                  | Stratagona 2 taloggana   |
| RT cables (ropes)  | GS stratification                               | Stratoscope 2 telescope USE stratoscope telescopes   |
| ceramic fibers<br>cordage  | . atmospheric stratification                    | 00 <u>=</u> 0 <b></b>  |
| fibers   | . intercalation                                 | stratoscope telescopes   |
| ∞ filaments  | RT anticlines<br>bedrock                        | UF Stratoscope 1 telescope   |
| mesh   | crossbedding (geology)                          | Stratoscope 2 telescope  |
| yarns  | flat layers                                     | GS telescopes . spectroscopic telescopes   |
| strango attractors   | folds (geology)                                 | stratoscope telescopes   |
| strange attractors  DEF Abstract geometrical objects in theo-                | geosynclines                                    | RT balloons  |
| retical physics that represent motion which is                               | ∞ layers  | reflecting telescopes  |
| bounded but not periodic. Their detailed behav-                              | static stability                                | refracting telescopes  |
| ior is sensitive to external perturbations, but their                        | strata<br>stratified flow                       | stratosphere   |
| overall qualitative behavior is stable. They are of                          | stratigraphy                                    | SN (ALTITUDE RANGE BETWEEN   |
| particular interest in the study of turbulence.  GS attractors (mathematics) | synclines                                       | APPROXIMATELY 15 AND 50 KM)  |
| GS attractors (mathematics) . strange attractors                             | temperature gradients                           | DEF Region of the atmosphere between the   |
| RT chaos   | thermoclines                                    | troposphere and mesosphere, having a lower<br>boundary about 8 km. at the poles to 15 km. at   |
| fractals   |   | the equator and an upper boundary of about 50  |
| imbeddings (mathematics)   | stratified flow                                 | km.  |
| iterative solution   | GS fluid flow                                   | GS Earth atmosphere  |
| nonlinear systems  | . laminar flow                                  | . middle atmosphere  |
| numerical stability  | . stratified flow                               | stratosphere   |
| perturbation theory<br>∞ physics   | RT baroclinic waves                             | ozonosphere  |
| ∞ pnysics recursive functions  | baroclinity<br>coaxial flow                     | stratopause  |
| state vectors  | flow geometry                                   | RT chemosphere   |
| theoretical physics  | shear flow                                      | homosphere<br>ice clouds   |
| turbulence   | stratification                                  | isothermal layers  |
|  |   | stratospheric warming  |
| strangeness  | stratified layers                               | on one of the control |
| RT hyperons  | USE strata                                      | stratosphere radiation   |
| mesons   |   | DEF Any infrared radiation involved in the   |
| parity   | stratigraphy                                    | complex infrared exchange continually proceed-   |
| quantum mechanics  | DEF That branch of geology which treats of      | ing within the stratosphere.   |
| strapdown inertial guidance  | the formation, composition, sequence, and cor-  | GS atmospheric radiation . stratosphere radiation  |
| GS guidance (motion)   | relation of the stratified rocks as part of the | RT corpuscular radiation   |
| . inertial guidance  | Earth's crust.                                  | electromagnetic radiation  |
| strapdown inertial guidance  | GS stratigraphy                                 | ∞ radiation  |
| RT inertial navigation   | . magnetostratigraphy                           | sky radiation  |
|  | RT anticlines                                   | tropospheric radiation   |
| straps   | bedrock   |  |
| RT anchors (fasteners)  ∞ bands  | beds (geology)                                  | Stratospheric Aerosol & Gas Experiment   |
| clamps   | crossbedding (geology)<br>∞ formation           | USE SAGE satellite   |
| fasteners  | formations                                      | Stratospheric Observatory for IR Astronomy   |
| holders  | geochronology                                   | USE SOFIA (airborne observatory)   |
|  | geology   | COL COLIN (dilabolilo obcolvatory)   |
| strata   | geophysics                                      | stratospheric warming  |
| UF stratified layers   | geosynclines                                    | (added October 1988)   |
| GS strata  | hydrogeology                                    | DEF A temperature rise in the global strato-   |
| . substrates<br>RT anticlines  | mines (excavations)                             | sphere.  |
| RT anticlines<br>bedrock   | paleontology                                    | GS heating   |
| beds (geology)   | particle tracks<br>petrology                    | . atmospheric heating  |
| crossbedding (geology)   | plateaus  | <b>stratospheric warming</b><br>RT anomalous temperature zones   |
| flat layers  | regolith  | atmospheric heat budget  |
| folds (geology)  | rocks   | atmospheric temperature  |
| geosynclines   | sedimentary rocks                               | climate change   |
| ∞ layers   | stratification                                  | global warming   |
| stratification   | synclines                                       | isothermal layers  |
| synclines<br>underground acoustics   | wells   | stratosphere   |
| underground acoustics  |   | Stratotanker aircraft  |
| strategic materials  | stratocumulus clouds                            | USE C-135 aircraft   |
| DEF Critical raw materials whose foreign                                     | GS clouds (meteorology)                         | OCE O 100 unorun   |
| source of supply is uncertain and subject to                                 | . stratocumulus clouds                          | stratus clouds   |
| potential cutoff. Examples of such materials are                             | RT cumulus clouds                               | GS clouds (meteorology)  |
| chromium, cobalt, manganese, and platinum                                    | stratus clouds                                  | . stratus clouds   |
| group metals.  |   | RT fog   |
| RT chromium  | Stratofortress aircraft                         | nimbostratus clouds  |
| cobalt   | USE <b>B-52 aircraft</b>                        | stratocumulus clouds   |
| manganese<br>∞ materials   |   | streak cameras   |
| ∞ materials<br>metals  | Stratojet aircraft                              | DEF Cameras for measuring radiation  |
| stockpiling  | USE B-47 aircraft                               | pulses by deflection of an electron beam.  |
| technology assessment  |   | GS optical equipment   |
| <b>5,</b>  | stratopause                                     | . cameras  |
| strategy   | SN (ALTITUDE APPROXIMATELY 50 KM)               | streak cameras   |
| RT decision theory   | GS Earth atmosphere                             | photographic equipment   |
| deployment   | . middle atmosphere                             | . cameras  |
| electronic warfare   | stratosphere                                    | streak cameras   |
| game theory  | stratopause                                     | RT camera shutters   |
| ∞ operations   | RT mesopause                                    | cinematography   |

| lenses  | intersections  | muscular fatigue  |
|---|--|---|
| streak photography  | pavements<br>roads   | Palmar sweat index physiology                           |
| DEF The process of taking a time exposure                                       | ∞ tunnels  | priysiology<br>pressure breathing                       |
| photograph of a tracer particle in a fluid; the                                 | urban planning   | space flight stress                                     |
| photograph reveals the motion of each tracer                                    | urban research   | stress (psychology)                                     |
| particle in the form of a streak which may be interpreted as a velocity vector. | ∞ strength   | underwater physiology                                   |
| GS imagery  | SN (USE OF A MORE SPECIFIC TERM IS   | stress (psychology)                                     |
| . photography   | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)  | UF mental stress  |
| <b>streak photography</b><br>RT cameras   | RT cold strength   | GS stress (biology) . stress (psychology)               |
| RT cameras electro-optical photography  | compressive strength creep rupture strength  | RT fatigue (biology)                                    |
| high speed cameras  | creep rupture strength   | flight stress (biology)                                 |
| imaging techniques  | dispersion strengthening   | mental performance                                      |
| stream functions (fluids)   | electric field strength  | Palmar sweat index psychological effects                |
| RT incompressible flow  | fiber strength<br>field strength   | psychological factors                                   |
| potential theory  | flexural strength  | psychology  |
| Stokes-Beltrami equation<br>streams   | fracture strength  | space flight stress<br>space psychology                 |
| two dimensional flow  | high strength impact strength  | stress (physiology)                                     |
| atra a milina flavu   | load carrying capacity   | workloads (psychophysiology)                            |
| streamline flow USE laminar flow  | mechanical properties  | stress analysis   |
| COL Idillia IION  | microyield strength<br>muscular strength   | UF stress calculations                                  |
| streamlined bodies  | notch strength   | GS stress analysis                                      |
| GS symmetrical bodies . streamlined bodies                                      | residual strength  | . Schwartz method<br>. x ray stress analysis            |
| fairings  | shear strength   | RT Airy function  |
| RT aerodynamic configurations   | tensile strength<br>weld strength  | ∞ analyzing   |
| airfoils  | yield strength   | bending moments   |
| axisymmetric bodies<br>∞ bodies   | -to-math of materials  | bending theory boundary element method                  |
| bodies of revolution  | strength of materials USE mechanical properties  | Castigliano variational theorem                         |
| missile bodies  | ool moonamoa proportion  | combined stress   |
| ogives<br>slender bodies  | streptococcus  | construction<br>creep analysis                          |
| streamlining  | GS microorganisms<br>. bacteria  | Donnell equations                                       |
| towed bodies  | streptococcus  | energy methods  |
| streamlining  | atrantamyaataa   | Euler buckling<br>∞ flight stress                       |
| RT acoustic streaming   | streptomycetes GS microorganisms   | fringe multiplication                                   |
| air flow  | . bacteria   | inelastic stress  |
| aircraft design<br>aircraft structures  | streptomycetes   | influence coefficient<br>interference fit               |
| airfoil profiles  | streptomycin   | isoparametric finite elements                           |
| airfoils  | GS drugs   | mechanical engineering                                  |
| fairings  | . antibiotics  | Michell theorem   |
| fluid dynamics<br>friction reduction  | streptomycin   | Moire fringes<br>moments of inertia                     |
| helicopter design   | stress (biology)   | NASTRAN   |
| hydrofoils  | DEF The effect of a physiological, psycho-   | photoelastic analysis                                   |
| ∞ profiles<br>skin friction   | logical, or mental load on a biological organism which causes fatigue and tends to degrade | photoelasticity<br>Reissner theory                      |
| streamlined bodies  | proficiency.   | Saint Venant principle                                  |
| -4  | GS stress (biology)  | shallow shell equations                                 |
| streams  DEF Bodies of flowing water, great or small,                           | <ul><li>acceleration stresses (physiology)</li><li>centrifuging stress</li></ul>           | S-N diagrams<br>stresses                                |
| contained within channels as well as uncon-                                     | . flight stress (biology)  | structural analysis                                     |
| tained fluids such as air.  | space flight stress  | structural design                                       |
| GS streams . gas streams  | . plant stress   | structural engineering<br>temperature inversions        |
| RT air flow   | . stress (psychology) RT acclimatization   | temperature inversions                                  |
| alluvium  | anxiety  | stress calculations                                     |
| aquifers<br>Delaware River Basin (US)   | deprivation exercise physiology  | USE stress analysis                                     |
| fluid flow  | fatigue (biology)  | stress concentration                                    |
| gas flow  | pathological effects   | DEF In structures, a localized area of high             |
| hydrology<br>hydrology models   | psychological effects  | stress. GS distribution (property)                      |
| International Hydrological Decade   | stress (physiology)  | GS distribution (property) . stress distribution        |
| Lake Erie   | GS stress (physiology)   | stress concentration                                    |
| Lake Huron  | . acceleration stresses (physiology)   | RT combined stress                                      |
| Lake Michigan<br>Lake Ontario   | centrifuging stress RT acceleration (physics)  | concentrating<br>crack initiation                       |
| Lake Superior   | acclimatization  | cracking (fracturing)                                   |
| limnology   | aeroembolism   | Elber equation  |
| meanders<br>rapids  | angina pectoris<br>anoxia  | fatigue (materials)<br>fatigue tests                    |
| reservoirs  | biodynamics  | force distribution                                      |
| rivers  | deprivation  | fringe multiplication                                   |
| stream functions (fluids) surface water   | exercise physiology<br>fatigue (biology)   | hole distribution (mechanics) hole geometry (mechanics) |
| Susquehanna River Basin   | flight stress (biology)  | impact strength   |
| (MD-NY-PA)  | gravitational physiology   | impact tests  |
| wadis   | homeostasis<br>hyperkinesia  | loads (forces)<br>mechanical properties                 |
| streets   | hypoxia  | micromechanics  |
| RT highways   | lower body negative pressure   | Moire fringes   |

moment distribution notch strength structural design notch strength plane strain stress waves notch tests stress distribution perforated plates tensile stress GS elastic waves perforated shells . stress waves plane stress stress measurement acoustic emission Saint Venant principle GS mechanical measurement shock layers strain distribution stress measurement shock waves stresses . x ray stress measurement stresses stress-strain relationships deformeters temperature inversions extensometers wave propagation structural strain photoelastic analysis ∞ waves stress corrosion shearography corrosion S-N diagrams stressed-skin structures . stress corrosion strain gages RT monocoque structures . stress corrosion cracking skin (structural member) tensometers RT cracking (fracturing) vibration measurement spherical shells fretting corrosion ∞ structures intergranular corrosion thin walled shells stress propagation GS transmission metal fatigue . stress propagation stresses salt spray tests DEF The forces per unit area of a body that transgranular corrosion elastic waves plastic deformation tends to produce a deformation. . ∞ propagation GS stresses stress corrosion cracking . axial stress GS corrosion . combined stress . stress corrosion stress ratio . stress corrosion cracking DEF The ratio of the minimum stress to the . critical loading fracturing maximum stress occurring in one stress cycle. . interlaminar stress . cracking (fracturing) . photostresses GS mechanical properties . stress corrosion cracking stress ratio . plane stress . residual stress corrosion tests ratios stress ratio Reynolds stress crack closure fatigue (materials) crack initiation . shear stress . torsional stress crack propagation fatique tests modular ratios . tensile stress metal fatique pressure ratio . thermal stresses S-N diagrams . triaxial stresses stress cycles vibrational stress A variation of stress with time, rebuckling peated periodically and identically. stress relaxation The decrease in stress after a given cracks DEF GS cycles creep properties destruction time at constant strain. stress cycles mechanical properties mechanical properties fatigue (materials) stress cycles . stress relaxation relaxation (mechanics)
. stress relaxation ∞ flight stress cyclic loads impact Elber equation anelasticity RT loads (forces) fatigue (materials) Bordoni peaks mechanical properties microyield strength prestressing fatigue life creep analysis creep diagrams fatigue tests S-N diagrams creep properties stresses rolling contact loads variable amplitude loading ductility shear properties fatigue (materials) stress analysis stress distribution plastic deformation stress concentration stress fields plastic flow stress cycles GS distribution (property) plastic memory stress relaxation stress distribution plastic properties stress waves ∞ recovery . stress concentration structural strain crack propagation residual stress temperature inversions force distribution shear properties transverse loads fracture mechanics strain energy release rate triboluminescence interlaminar stress x ray stress analysis stresses strain distribution temperature inversions yield strength stress intensity factors stress-strain relationships stress relieving stress-strain diagrams GS heat treatment GS diagrams transverse loads stress relieving . stress-strain diagrams stress fields relieving axial strain USE stress distribution stress relieving Hookes law alloys inelastic stress stress functions annealing modulus of elasticity von Mises theory fatigue (materials) Poisson ratio GS functions (mathematics) Portevin-le Chatelier effect ∞ recovery stress functions residual stress proportional limit RT stabilization shape memory alloys fracturing strain hardening shear properties stress intensity factors tempering strain measurement DEF Load-induced variables in tension, structural strain compression, and/or shear which are conducive stress rupture strength yield strength to crack initiation and propagation and fatigue USE creep rupture strength fracture in materials. stress-strain relationships DEF Relationship between the stress or load on a structure, structural member, or a RT bending theory stress tensors combined stress DEF Complete sets of stress components in a solid or fluid medium. crack initiation specimen, and the strain or deformation that crack propagation cracking (fracturing) GS algebra follows. . tensors elastic deformation edge cracks . . stress tensors interlaminar stress force distribution continuum mechanics plane strain elastic properties fracture mechanics fracture mechanics plastic deformation hole geometry (mechanics)

plastic properties

Portevin-le Chatelier effect

∞ relationships

loads (forces)

residual stress cordage wave excitation strain distribution strain measurement ∞ strip (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) strong interactions (field theory) stress concentration ŚΝ One of the fundamental interactions of stress distribution elementary particles, primarily responsible for structural strain RT airports nuclear forces and other interactions among yield strength circuits display devices GS particle interactions stress-strain-time relations metal strips . elementary particle interactions creep diagrams ribbons . . high energy interactions Newtonian fluids runways ... strong interactions (field thermoviscoelasticity theory) field theory (physics) strip mining stretch forming mining grand unified theory GS RT bulging . strip mining ∞ interactions cold working clays nuclear interactions ∞ drawing coal nuclear reactions metal drawing Earth resources quantum chromodynamics metal working excavation standard model (particle physics) stretching exploitation ∞ theories lunar mining weak interactions (field theory) stretchers mineral deposits medical equipment GS mines (excavations) strongly coupled plasmas stretchers soils DEF Highly compressed and collisional plasmas with electron densities of order 10 to first aid strip transmission lines the 24th power per cubic centimeter or more.

The mean kinetic and potential energies of particles in the plasma are typically of the same stretching GS transmission lines UF dilatation . strip transmission lines RT cold working microstrip transmission lines order of magnitude. antenna feeds deep drawing GS particles dilatational waves metal strips . charged particles distortion transmission circuits . . energetic particles ∞ drawing . . . plasmas (physics) ductility ∞ stripping . . . . collisional plasmas elastic deformation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . strongly coupled plasmas elongation . . . . dense plasmas metal working anodic stripping . . . . strongly coupled plasmas plastic deformation ion stripping . corpuscular radiation stretch forming . . energetic particles paint removal tempering peeling ... plasmas (physics) ∞ tension stripping (distillation) . . . . collisional plasmas winding .... strongly coupled plasmas . . . dense plasmas stripping (distillation) striated muscle .... strongly coupled plasmas distillation (added December 2004) RT controlled fusion stripping (distillation) USE skeletal muscle cosmic plasma RT ∞ separation coupled modes ∞ stripping dusty plasmas vaporizing high temperature plasmas A fracture surface marking consisting of a separation of the advancing crack front into inertial confinement fusion stroboscopes separate fracture planes. magnetohydrodynamic stability GS optical equipment grooving plasma compression stroboscopes musculoskeletal system plasma conductivity ballistic cameras plasma density riblets high speed cameras shatter cones plasma equilibrium optical measurement skeletal muscle plasma focus synchronism time measurement string theory velocity measurement strontium (DOES NOT INCLUDE CLASSICAL STRING THEORY) GS chemical elements stroke volume UF superstring theory . strontium (added March 1991) . . strontium isotopes bosons output cosmology . . . strontium 85 . . . strontium 87 . cardiac output field theory (physics) . stroke volume . . . strontium 89 gauge theory blood volume grand unified theory . . . strontium 90 cardiovascular system gravitation theory metals large-scale structure of the universe heart function . strontium particle theory heart rate . . strontium isotopes physiological tests . . . strontium 85 quantum chromodynamics . . . strontium 87 quantum theory . . . strontium 89 relativity ∞ strokes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . . . strontium 90 supersymmetry SN theoretical physics unified field theory cerebral vascular accidents RT strontium 85 thermodynamic cycles GS chemical elements . nuclides Slender, lightweight, lengthwise fill-in . . isotopes stroking tests structural members in a rocket body, or the like, vibration tests . . . radioactive isotopes serving to reinforce and give shape to the skin. . . . . strontium 85 . damping tests structural members . . . strontium isotopes GS stroking tests stringers dynamic response ... strontium 85 longerons frequency response . strontium reinforcement (structures) modal response . . strontium isotopes structural stability shock spectra . . strontium 85 structural vibration metals . strontium strings tests

transient response

RT assemblies

. . strontium isotopes

| strontium 85                  | metal halides                                     |         | vortices                                |
|-------------------------------|---|---------|---|
|                               | metal fluorides                                   |         | wakes                                   |
| strontium 87                  | strontium fluorides                               |         |   |
| GS chemical elements          | strontium compounds                               | structu | ral analysis                            |
| . nuclides                    | strontium fluorides                               | UF      | membrane analogy                        |
| isotopes                      |   |         | membrane theory                         |
| strontium isotopes            | strontium isotopes                                | GS      | structural analysis                     |
| strontium 87                  | GS chemical elements                              |         | . dynamic structural analysis           |
| . strontium                   | . nuclides  |         | flutter analysis                        |
| strontium isotopes            | isotopes  |         | energy methods                          |
| strontium 87                  | strontium isotopes                                |         | . Bernstein energy principle            |
| metals                        | strontium 85                                      |         | strain energy methods                   |
| . strontium                   | strontium 87                                      |         | . equilibrium methods                   |
| strontium isotopes            | strontium 89                                      |         | . matrix methods                        |
| strontium 87                  | strontium 90                                      | RT •    | ∞ analyzing                             |
|                               | . strontium                                       |         | Castigliano variational theorem         |
| strontium 88                  | strontium isotopes                                |         | construction                            |
| GS chemical elements          | strontium 85                                      |         | continuum modeling                      |
| . nuclides                    | strontium 87                                      |         | creep analysis                          |
| isotopes                      | strontium 89                                      |         | design optimization                     |
| radioactive isotopes          | strontium 90                                      |         | Euler-Bernoulli beams                   |
| strontium 88                  | metals  |         | hole geometry (mechanics)               |
| Strontam Go                   | . strontium                                       |         | influence coefficient                   |
| strontium 89                  | . strontium isotopes                              |         | J integral                              |
| GS chemical elements          | strontium 85                                      |         | loading moments                         |
| . nuclides                    | strontium 87                                      |         | megamechanics                           |
| isotopes                      |   |         | Michell theorem                         |
| radioactive isotopes          | strontium 89                                      |         | Mindlin plates                          |
| strontium 89                  | strontium 90                                      |         | •                                       |
|                               | strontium oxides                                  |         | modular ratios moment distribution      |
| strontium isotopes            |   |         |   |
| strontium 89                  | (added June 1992)                                 |         | NASTRAN                                 |
| . strontium                   | GS chalcogenides                                  |         | orbital space tests                     |
| strontium isotopes            | . oxides  |         | patch tests                             |
| strontium 89                  | metal oxides                                      |         | plate theory                            |
| metals                        | strontium oxides                                  |         | shape functions                         |
| . strontium                   | strontium compounds                               |         | shape optimization                      |
| strontium isotopes            | . strontium oxides                                |         | solid mechanics                         |
| strontium 89                  | RT ∞ alkaline earth compounds                     |         | stiffness matrix                        |
|                               | BSCCO superconductors                             |         | stress analysis                         |
| strontium 90                  | ∞ chemical compounds                              |         | Trefftz method                          |
| GS chemical elements          | high temperature superconductors                  |         |   |
| . nuclides                    | ∞ metal compounds                                 |         | ral basins                              |
| isotopes                      | mixed oxides                                      | UF      | basins                                  |
| radioactive isotopes          | superconductors (materials)                       |         | closed basins                           |
| strontium 90                  |   |         | depressions (topography)                |
| strontium isotopes            | strontium sulfides                                |         | sinks (geology)                         |
| strontium 90                  | GS chalcogenides                                  | GS      | landforms                               |
| . strontium                   | . sulfides  |         | . structural basins                     |
| strontium isotopes            | inorganic sulfides                                |         | cirques (landforms)                     |
| strontium 90                  | strontium sulfides                                |         | . Great Basin (US)                      |
| metals                        | strontium compounds                               |         | Kalahari Basin (África)                 |
| . strontium                   | . strontium sulfides                              |         | karst                                   |
| strontium isotopes            | sulfur compounds                                  |         | sinkholes                               |
| strontium 90                  | . sulfides  |         | kettles (geology)                       |
|                               | inorganic sulfides                                |         | Lake Champlain Basin (NY-VT)            |
| strontium bromides            | strontium sulfides                                |         | river basins                            |
| GS halogen compounds          | Strontium Sumues                                  |         | Atchafalaya River Basin (LA)            |
| . bromine compounds           | strontium titanates                               |         | Chena River Basin (AK)                  |
| . bromides                    | GS strontium compounds                            |         | Columbia River Basin                    |
| strontium bromides            | . strontium titanates                             |         | (ID-OR-WA)                              |
| . halides                     | titanium compounds                                |         | Delaware River Basin (US)               |
| bromides                      | titanium compounds<br>. titanates                 |         | Feather River Basin (CA)                |
| strontium bromides            | strontium titanates                               |         | Missouri River Basin (US)               |
| metal halides                 | Strontium thandles                                |         |   |
|                               | strontium zirconates                              |         | Susquehanna River Basin                 |
| strontium bromides            |   |         | (MD-NY-PA)                              |
| strontium compounds           | GS strontium compounds                            |         | Wabash River Basin (IL-IN-OH)           |
| . strontium bromides          | . strontium zirconates                            |         | wadis                                   |
| atrantium comments            | zirconium compounds                               |         | watersheds                              |
| strontium compounds           | . zirconates                                      |         | Williston Basin (North America)         |
| GS strontium compounds        | strontium zirconates                              | RT      | geology                                 |
| . strontium bromides          | Orași la La contra                                |         | seamounts                               |
| . strontium fluorides         | Strouhal number                                   |         | valleys                                 |
| . strontium oxides            | DEF A nondimensional number occurring in          |         |   |
| . strontium sulfides          | the study of periodic or quasiperiodic variations |         | ral beams                               |
| . strontium titanates         | in the wake of objects immersed in a fluid        | USE     | beams (supports)                        |
| . strontium zirconates        | stream.   |         |   |
| RT ∞ alkaline earth compounds | GS dimensionless numbers                          |         | ral design                              |
| ∞ chemical compounds          | . Strouhal number                                 | GS      | - · · · · · · · · · · · · · · · · · · · |
| ∞ metal compounds             | ratios  |         | . pressure vessel design                |
|                               | . Strouhal number                                 | RT      | aeroelastic research wings              |
| strontium fluorides           | RT backwash                                       |         | aircraft design                         |
| GS halogen compounds          | buffeting   |         | airframe materials                      |
| . fluorine compounds          | flow characteristics                              |         | architecture                            |
| fluorides                     | flow distribution                                 |         | breakwaters                             |
| metal fluorides               | flow stability                                    |         | computer aided design                   |
| strontium fluorides           | Froude number                                     |         | construction                            |
| . halides                     | oscillating flow                                  | _       | ∞ design                                |
| . fluorides                   | slipstreams                                       | ۰       | ∞ design<br>design optimization         |
| metal fluorides               | turbulence  |         | helicopter design                       |
| strontium fluorides           | turbulence<br>unsteady flow                       |         | lofting                                 |
|                               | THISTEACH HOW                                     |         | 0.000000                                |

materials selection . . structural influence coefficients planetary composition missile design plates (tectonics) structural materials plant design ∞ properties USE construction materials product development rock mechanics satellite design shatter cones structural members shape optimization sinkholes structural members ship hulls subduction (geology) . beams (supports) shock spectra . . box beams structural reliability space station structures . . cantilever beams spacecraft design GS reliability . . curved beams spacecraft structures . structural reliability . . Euler-Bernoulli beams stress analysis aircraft reliability . . I beams component reliability stress tensors . rectangular beams
. Timoshenko beams
. columns (supports) cumulative damage substructures tensegrity structures underwater structures quality control . . tapered columns weight reduction structural rigidity girders USE structural stability longerons structural design criteria . membrane structures structural stability criteria structural rigidity . skin (structural member) structural design criteria mechanical properties plates (structural members) aerodynamic loads . . anisotropic plates . dimensional stability axial compression loads annular plates . . structural stability axial loads . . cantilever plates . shell stability bending moments . . circular plates stability compression loads . static stability . . corrugated plates cyclic loads elastic plates . . dimensional stability ∞ design . . end plates . . . structural stability design optimization flat plates ... shell stability dynamic loads . . girder webs aircraft stability geotechnical engineering . . metal plates aspect ratio gust loads ... boiler plate combustion vibration impact loads . . Mindlin plates hybrid structures landing loads loads (forces) . . orthotropic plates load carrying capacity . . perforated plates longerons mass distribution . . plastic plates plastic properties moment distribution porous plates reinforcement (structures) pressure distribution . . rectangular plates resonance testing random loads . . reinforced plates ∞ rigidity rolling contact loads shape optimization . . thick plates rotor stator interactions . . thin plates . saddles (supports) stiffness shock loads static loads stringers strakes wave resistance thrust loads . stringers transient loads struts structural strain vibratory loads axial strain trusses RT bending wing panels buckling aircraft construction materials structural dynamics cracking (fracturing) airframe materials USE dynamic structural analysis deflection bars deformation ∞ channels structural engineering elastic deformation clamped structures RT aeronautical engineering failure ∞ components aerospace engineering load carrying capacity concretes construction moments of inertia plastic deformation construction ∞ engineering ∞ construction materials geotechnical engineering prestressing fasteners megamechanics foundations reinforcement (structures) modular ratios guy wires rupturing smart structures joints (junctions) shear strain stress analysis masonry shearing pylon mounting strain measurement stress concentration pylons structural failure rectangular panels stresses GS failure reinforcement (structures) stress-strain diagrams structural failure rods stress-strain relationships bending system failures slabs buckling temperature inversions smart structures collapse twisting stiffness matrix cracking (fracturing) volumetric strain ∞ structures creep properties substructures warpage deformation thick walls fatigue (materials) structural vibration fracturing structural properties (geology) GS vibration load carrying capacity lineament . structural vibration mechanical properties GS geology . . bending vibration system failures . structural properties (geology) . . breathing vibration Earth core . . flutter structural fatigue Earth crust . . . panel flutter USE fatigue (materials) Earth mantle subsonic flutter Earth planetary structure . . . supersonic flutter . . . transonic flutter Earth surface structural foundations fissures (geology) . . linear vibration USE foundations geophysics . . missile vibration Great Basin (US) . . self induced vibration hydrology inliers (landforms) . . . panel flutter structural influence coefficients

landforms

neotectonics

GS

RT

GS

SIC (coefficient)

. influence coefficient

coefficients

. . . subsonic flutter

... transonic flutter

. . . supersonic flutter

## structural weight

| torsional vibration                                 |         | planar structures             |           | walls                                    |
|---|---------|-------------------------------|-----------|--|
| RT airfoil oscillations                             |         | redundant components          |           | wans                                     |
|   |         |                               | stunt fly | vina                                     |
| clamped structures                                  |         | rigid structures              |           |  |
| earthquake resistant structures                     |         | ring structures               | USE       | aerobatics                               |
| flexible spacecraft                                 |         | sandwich structures           | 0, ,      |  |
| flutter analysis                                    |         | smart structures              |           | iouville operator                        |
| gyrodampers   |         | space erectable structures    | USE       | Sturm-Liouville theory                   |
| Mindlin plates                                      |         | space station structures      |           |  |
| random vibration                                    |         | spacecraft structures         |           | Liouville theory                         |
| resonant vibration                                  |         | steel structures              | UF        | Sturm-Liouville operator                 |
|   |         | stellar structure             | GS        | analysis (mathematics)                   |
| rotor dynamics                                      |         |                               |           | . real variables                         |
| shaking   |         | stressed-skin structures      |           | Sturm-Liouville theory                   |
| shock spectra                                       |         | structural members            | RT        |  |
| stroking tests                                      |         | substructures                 | IXI       |  |
| vibration tests                                     |         | tanks (containers)            |           | Lamb waves                               |
|   |         | tensegrity structures         |           | Lame wave equations                      |
| structural weight                                   |         | towers                        | ۰         | theories                                 |
|   |         | trusses                       |           |  |
| GS weight (mass)                                    |         |                               | styluses  | 3  |
| structural weight                                   |         | unimolecular structures       | USE       | pens                                     |
| RT mass ratios                                      |         | variable geometry structures  |           | F  |
| materials selection                                 |         | welded structures             | styphna   | ates                                     |
| NEW MOONS project                                   |         | wooden structures             | GS        | explosives                               |
| weight analysis                                     |         |                               | 00        |  |
| weight reduction                                    | struts  |                               | БТ        | styphnates                               |
| Wolght Toddollon                                    |         | atrustural mambara            |           | ∞ chemical compounds                     |
| -tt   | GS      | structural members            | ۰         | ∘ initiators                             |
| structured grids (mathematics)                      |         | . struts                      |           | initiators (explosives)                  |
| (added May 1995)                                    | RT      | chassis                       |           |  |
| DEF In computational fluid dynamics, grid           |         | columns (supports)            | styrene   | es                                       |
| systems where the flowfield is discretized into     |         | frames                        |           | styrenes                                 |
| quadrilateral elements for two-dimensional          |         | pylons                        | 00        | . polystyrene                            |
| fields, and hexahedral elements for three-          |         | supports                      |           |  |
|   |         |                               |           | styrofoam (trademark)                    |
| dimensional fields. In this type of grid system the |         | trusses                       | RT        | Buna (trademark)                         |
| grid points can be associated with grid lines in    |         |                               |           |  |
| an ordered manner.                                  | strychi | nine                          | styrofo   | am (trademark)                           |
| GS coordinates                                      | ĞS      | bases (chemical)              | GS        | plastics                                 |
| . computational grids                               | 00      | . alkaloids                   |           | . polystyrene                            |
| structured grids (mathematics)                      |         |                               |           |  |
|   |         | strychnine                    |           | styrofoam (trademark)                    |
| multiblock grids                                    |         | nitrogen compounds            |           | styrenes                                 |
| RT computational fluid dynamics                     |         | . alkaloids                   |           | . polystyrene                            |
| grid generation (mathematics)                       |         | strychnine                    |           | styrofoam (trademark)                    |
| ∞ nets  |         | organic compounds             |           | vinyl polymers                           |
| smoothing   |         | . cyclic compounds            |           | . polystyrene                            |
| unstructured grids (mathematics)                    |         |                               |           | styrofoam (trademark)                    |
| unstructured grids (matriematics)                   |         | heterocyclic compounds        | DT        |  |
|   |         | alkaloids                     |           | foams                                    |
| structured programming                              |         | strychnine                    | ٥         | ∘ polymers                               |
| (added December 1989)                               |         | poisons                       |           |  |
| GS computer programming                             |         | . strychnine                  | subarct   | tic regions                              |
| . structured programming                            | RT      | stimulants                    | GS        | Northern Hemisphere                      |
|   | KI      | Stirrularits                  |           | . Arctic regions                         |
| RT computer aided design                            |         |                               |           |  |
| computer programs                                   | STS     |                               |           | subarctic regions                        |
| data structures                                     | USE     | space transportation system   |           | regions                                  |
| ∞ programming                                       |         | , ,                           |           | . polar regions                          |
| programming languages                               | STS-1   |                               |           | Arctic regions                           |
| software engineering                                |         | 0 T                           |           | subarctic regions                        |
| contrare originooring                               | USE     | Space Transportation System 1 |           | . remote regions                         |
|   |         | flight                        |           | Arctic regions                           |
| ∞ structures  |         |                               |           |  |
| SN (USE OF A MORE SPECIFIC TERM IS                  | STS-2   |                               |           | subarctic regions                        |
| RECOMMENDEDCONSULT THE TERMS                        | USE     | Space Transportation System 2 |           | 1 P                                      |
| LISTED BELOW)                                       | USE     | Space Transportation System 2 |           | emblies                                  |
| RT aircraft structures                              |         | flight                        | DEF       | Assemblies that are component parts      |
| architecture  |         |                               | of large  | r assemblies. Used for subcircuits.      |
| atomic structure                                    | STS-3   |                               | GS        | assemblies                               |
| breakwaters   | USE     | Space Transportation System 3 |           | . subassemblies                          |
| bridges (structures)                                | 302     | flight                        | RT        | accessories                              |
| clamped structures                                  |         |                               |           |  |
| composite structures                                |         |                               | ٥         | ∘ components                             |
| •   | STS-4   |                               |           | PLL COLUMN TO STATE                      |
| concrete structures                                 | USE     | Space Transportation System 4 |           | lible frequencies                        |
| configuration interaction                           |         | flight                        | GS        | frequencies                              |
| crystal structure                                   |         | ŭ                             |           | . subaudible frequencies                 |
| Earth planetary structure                           |         | 4-                            |           | range (extremes)                         |
| earthquake resistant structures                     | studen  |                               |           | . frequency ranges                       |
| expandable structures                               | UF      | trainees                      |           | subaudible frequencies                   |
| fine structure                                      | RT      | education                     | БТ        | •  |
|   |         | instructors                   | RT        |  |
| folding structures                                  |         | learning                      |           | frequency distribution                   |
| foundations   |         | •                             |           | harmonics                                |
| frames  |         | training evaluation           |           | zero sound                               |
| galactic structure                                  |         | universities                  |           |  |
| honeycomb structures                                |         |                               | suhcarr   | ier waves                                |
| hulls (structures)                                  | studies |                               |           | carrier waves                            |
|   | USE     | investigation                 | USE       | outliet waves                            |
| hybrid structures                                   | JUL     | 50119411011                   |           | **                                       |
| hyperfine structure                                 |         |                               | subcirci  |  |
| inflatable structures                               |         | structural members)           | USE       | circuits                                 |
| intramolecular structures                           | RT      | anchors (fasteners)           |           |  |
| isotensoid structures                               |         | bolts                         | subcon    | tracts                                   |
| large space structures                              |         | columns (supports)            |           | Any contracts, other than prime con-     |
| membrane structures                                 |         | fasteners                     |           | entered into by a prime contractor or    |
|   |         |                               |           |  |
| microstructure                                      |         | holders                       |           | tractor calling for supplies or services |
| missile structures                                  |         | lugs                          |           | for the performance of any one or more   |
| molecular structure                                 |         | pins                          |           | ontracts.                                |
| monocoque structures                                |         | screws                        | GS        | contracts                                |

#### subcontracts supergiant stars deep-sea hydrothermal vents agreements seafloor hydrothermal vents RT subaravity contract management white smokers (oceanography) contract negotiation USE microgravity crystallization deep water contractors subgroups geochemistry estimates ŰF sublattices hydrothermal systems grants GS algebra options mid-ocean ridges group theory procurement mineralogy . . homomorphisms ocean bottom . . subgroups oceanography subcritical flow matrices (mathematics) sea floor spreading DEF Open channel flow having a low velocnumber theory probability theory volcanic eruptions ity and a Founde number less than unity (also described as tranquil or streaming flow) set theory Submarine Integrated Control project GS fluid flow subdivisions SUBIC project . subcritical flow subsidiaries GS programs critical flow . projects flow characteristics subharmonic generators ... Submarine Integrated Control gas flow RT damping project liquid flow ∞ generators RT ∞ control multiphase flow harmonic generators orifice flow harmonic oscillators submarine propulsion pipe flow harmonics GS propulsion pressure gradients oscillators . marine propulsion single-phase flow signal generators . . underwater propulsion steady flow stimulated emission devices ... submarine propulsion steam flow supercritical flow SUBIC project submarines turbulent flow USE **Submarine Integrated Control** Any self-powered underwater craft or uniform flow project towed underwater barges and arrays. unsteady flow GS water vehicles subjects . ships ĞS classifications . . submarines subcritical mass subjects . . . ballistic missile submarines GS mass handbooks guided missile submarines . subcritical mass information retrieval . . . trident submarine critical mass textbooks . underwater vehicles nuclear fission . . submarines nuclear reactions sublattices ballistic missile submarines USE lattices (mathematics) . . . guided missile submarines subgroups subdivisions . . trident submarine RT ∞ division antiship missiles sublayers ∞ groups antiship warfare USE substrates ∞ sections antisubmarine warfare set theory ∞ military vehicles sublethal dosage subgroups navy GS dosage subsidiaries nuclear powered ships sublethal dosage RT Seafarer project drugs ship hulls subduction (geology) submerged bodies sublimation DEF Descent of one tectonic unit under another. Most commonly used for descent of a The transition of a substance directly submerged bodies from the solid state to the vapor state, or vice slab of lithosphere, but appropriate at any scale. versa, without passing through the intermediate GS submerged bodies geology subduction (geology) GS . diving (underwater) liquid state. underwater research laboratories phase transformations Earth mantle . vaporizing submarines earthquakes . . sublimation torpedoes lithosphere towed bodies RT ablation neotectonics beneficiation underwater engineering plates (tectonics) underwater photography condensing seismology underwater structures crystallization structural properties (geology) underwater vehicles desorption tectonics diffusion water immersion evaporation gas-metal interactions submerging subdwarf stars immersion gas-solid interfaces celestial bodies baths phase change materials . stars dipping purification . subdwarf stars quenching (cooling) . pyrometallurgy dwarf stars sinking main sequence stars refining soaking red dwarf stars ∞ separation water immersion vapor pressure white dwarf stars weightlessness simulation subliminal stimuli wetting subgiant stars psychology DEF Celestial bodies whose position on the sensory stimulation submersible aircraft Hertzsprung-Russell (H-R) diagram is interme- $RT \, \infty \, aircraft$ stimuli diate between that of the main-sequence stars antisubmarine warfare aircraft and normal giants of the same spectral type. light aircraft submarine cables celestial bodies transmission lines ∞ military aircraft GS . stars reconnaissance aircraft . submarine cables . subgiant stars RT ∞ cables research aircraft

coaxial cables

submarine hydrothermal vents

power lines

(added March 2005)

communication cables

black smokers (oceanography)

carbon stars

dwarf stars

giant stars

main sequence stars

stellar evolution

late stars

M stars

water takeoff and landing aircraft

A NASA Small Explorer Project

Submillimeter Wave Astronomy Satellite

(SMEX) satellite designed to study the chemical

composition, energy balance, and structure of

(added November 2000)

interstellar gas clouds and the processes that lead to the formation of stars and planets. Its primary objective is to survey water, molecular oxygen, carbon, and isotopic carbon monoxide emission in a variety of galactic star forming regions.

ÚF Explorer 74 satellite SWAS (satellite) artificial satellités

. scientific satellites

. . astronomical satellites

. . . Submillimeter Wave Astronomy Satellite

. . Explorer satellites

... Submillimeter Wave Astronomy Satellite

. . small scientific satellites

. . . Submillimeter Wave Astronomy Satellite

observatories

. astronomical observatories

. . astronomical satellites

... Submillimeter Wave Astronomy

Satellite

interstellar chemistry interstellar matter molecular clouds spaceborne astronomy star formation submillimeter waves

#### submillimeter waves

(BELOW 1 MILLIMETER) electromagnetic radiation

. radio waves

. . short wave radiation

. . submillimeter waves

RT beams (radiation)

electromagnetic noise far infrared radiation

frequencies Large Deployable Reflector

microwaves millimeter waves

Submillimeter Wave Astronomy

Satellite wavelengths

#### subminiaturization

GS miniaturization

subminiaturization

electronic modules microminiaturization

miniature electronic equipment

printed circuits

#### suborbital flight

RT ∞ flight manned space flight orbits parabolic flight rocket flight space flight weightlessness

### subreflectors

RT Cassegrain antennas conductors reflector antennas reflectors scanners

### Subroc missile

GS missiles

- . ballistic missiles
- . . Subroc missile
- . surface to surface missiles
- . . fleet ballistic missiles
- . Subroc missile
- . underwater to surface missiles

Subroc missile

RT underwater trajectories

### subroutine libraries (computers)

- computer programs
  . computer systems programs
- .. subroutine libraries (computers)

RT subroutines

#### subroutines

A set of instructions necessary to direct a computer to carry out a well defined mathematical or logical operation; a subunit of a routine, usually coded in such a manner that it can be treated as a black box by the routine using it.

computer programs GS subroutines

data conversion routines

subroutines

RT compilers

parsing algorithms subroutine libraries (computers)

user manuals (computer programs)

subsets (mathematics) USE set theory

#### subsidence

isostasy

mines (excavations)

settling

#### subsidiaries

RT ∞ division ∞ sections subdivisions subgroups

#### ∞ subsonic aircraft

(USE OF A MORE SPECIFIC TERM IS SN RECOMMENDED--CONSULT THE TERMS LISTED BELOW)

RT ∞ aircraft

flying platforms

general aviation aircraft GETOL aircraft

aliders ground effect machines

helicopters jet aircraft

light aircraft paragliders

passenger aircraft rotary wing aircraft

short takeoff aircraft supersonic aircraft tandem wing aircraft training aircraft

transport aircraft turboprop aircraft utility aircraft

vertical takeoff aircraft

water takeoff and landing aircraft

## subsonic flow

DEF Flow of a fluid, as air over an airfoil, at speeds less than acoustic velocity.

GS fluid flow

subsonic flow

RT aerodynamics compressible flow flow velocity gas flow

incompressible flow Karman vortex street

Ringleb flow transonic flow

#### subsonic flutter

GS vibration

. structural vibration

. . flutter

... subsonic flutter

. . self induced vibration

.. subsonic flutter

RT transonic flutter

subsonic speed
SN (LESS THAN MACH 1)
GS rates (per time)

. subsonic speed

velocity subsonic speed

acoustic velocity RT low speed

transonic speed

#### subsonic wind tunnels

GS test facilities

. wind tunnels

. . low speed wind tunnels . subsonic wind tunnels

blowdown wind tunnels hypersonic wind tunnels rectangular wind tunnels supersonic wind tunnels transonic wind tunnels

substances

USE materials

#### substitutes

UF substitution RT alternatives replacing variations

substitution

USE substitutes

#### substrates

sublayers UF GS strata

. substrates

coatings laminates ∞ layers metallizing photomasks

plating ply orientation primers (coatings)

### substructures

RT floors foundations structural design structural members ∞ structures supports undercarriages walls

### subtraction

GS number theory . subtraction arithmetic computation Gaussian elimination

subtropical regions

temperate regions USE tropical regions

### suburban areas

RT cities land use megalopolises regional planning residential areas rural areas

## subzero temperature

GS temperature

subzero temperature

absolute zero atmospheric temperature cold acclimatization cold tolerance cold weather

### Success project

GS programs

. projects

.. Success project weapon systems . Success project

## succinimides

GS nitrogen compounds . amides

. . succinimides

. imides

. . succinimides traveling ionospheric disturbances RT ∞ aircraft succinonitrile sudden storm commencements sulfates (added April 2004) RT magnetic disturbances GS sulfur compounds A four-carbon straight chain dinitrile magnetic storms . sulfates compound. A transparent, organic material with solar activity effects . . alum structure and growth characteristics similar to solar corpuscular radiation . . ammonium sulfates metals and alloys. solar flares . . barite UF butanedinitrile storms . . hydroxylamine sulfate ethylene cyanide . . lithium sulfates GS cyanides sugar beets . . magnesium sulfates succinonitrile GS farm crops . . . hexahedrite nitrogen compounds sugar beets . sodium sulfates . nitriles plants (botany) RT gypsum . . succinonitrile sugar beets sulfuric acid organic compounds agriculture . ethylene compounds botany .. succinonitrile sulfation crop growth The introduction into an organic mol-. nitriles crop vigor ecule of the sulfuric ester group (or its salts) . . succinonitrile Earth resources -O-SO3H, where the sulfur is linked through an farmlands oxygen atom to the parent molecule. sucrose irrigation GS chemical reactions GS organic compounds seeds sulfation . carbohydrates sugars RT hydrometallurgy . . sugars sulfidation . . . sucrose sugar cane GS farm crops suction sulfidation sugar cane RT evacuating (vacuum) The reaction of a metal or alloy with a plants (botany) pressure effects sulfur-containing species to produce a sulfur compound that forms on or beneath the surface sugar cane pressure gradients agriculture vacuum of the metal or alloy.

GS chemical reactions botany vacuum apparatus crop growth vacuum pumps . sulfidation crop vigor Earth resources corrosion resistance **Sud Aviation aircraft** gas-metal interactions farmlands GS Sud Aviation aircraft heat resistant alloys ∞ food . Alouette helicopters nickel alloys . . SA-330 helicopter irrigation sulfation seeds . SE-3160 helicopter sulfides Concorde aircraft SA-321 helicopter sugars sulfides SE-210 aircraft GS organic compounds GS chalcogenides RT ∞ aircraft carbohydrates . . sugars . sulfides Sud Aviation SA-321 helicopter . . . dextrans . . disulfides . . . carbon disulfide USE SA-321 helicopter . . . inositols . . inorganic sulfides lactose . . . barium sulfides Sud Aviation SA-330 helicopter . . . mannitol ... bismuth sulfides USE SA-330 helicopter monosaccharides ... cadmium sulfides . . . sucrose Sud Aviation SE-210 aircraft . . . calcium sulfides ... hexoses . . . copper sulfides USE SE-210 aircraft . . . . . galactose . . . hydrogen sulfide . . . indium sulfides . . . . . glucose Sud Aviation SE-3160 helicopter . . . . pentose USE SE-3160 helicopter . . . . ribose lead sulfides . . . molybdenum sulfides . . . . xylose  $RT \, \infty \, food$ . molybdenum disulfides Sudan GS nations sugar beets ... polysulfides strontium sulfides Sudan . . . zinc sulfides RT Africa suggestion . . . . wurtzite recommendations GS . . . . zincblende sudden enhancement of atmospherics suggestion GS electromagnetic interference . . pyrites RT hypnosis . radio frequency interference . . pyrrhotite . . electromagnetic noise . troilite Suhl effect ... atmospherics sulfur compounds RT carrier injection ... sudden enhancement of . sulfides ∞ effects atmospherics . . disulfides electrons . . . carbon disulfide excitons sudden ionospheric disturbances . . inorganic sulfides holes (electron deficiencies) DEF Complex combinations of sudden . . . barium sulfides magnetic fields changes in the conditions of the ionosphere and ... bismuth sulfides n-type semiconductors the effects of these changes. Used for geomag-. . . cadmium sulfides recombination reactions netic crotchets and SID (ionospheric disturcalcium sulfides bances). . . . copper sulfides suitability UF geomagnetic crotchets hydrogen sulfide acceptability SID (ionospheric disturbances) . . . indium sulfides compatibility ionospheric disturbances lead sulfides . ionospheric storms ... molybdenum sulfides suits . molybdenum disulfides sudden ionospheric clothing GS . . . polysulfides disturbances . suits storms strontium sulfides . . pressure suits . ionospheric storms . . . zinc sulfides sudden ionospheric . . . space suits . . . . wurtzite ... extravehicular mobility units disturbances . . . . zincblende RT . . pyrites garments RT ∞ disturbances . pyrrhotite

Sukhoi aircraft

(added September 1995)

magnetic disturbances magnetic storms

solar activity effects

. troilite

RT sulfidation

|          | thioplastics                        |                    | dimercaprol                              |          | documentation                                  |
|----------|-------------------------------------|--------------------|--|----------|--|
|          | ·                                   | RT                 | bloedite                                 |          | indexes (documentation)                        |
| sulfites |                                     |                    | chemical compounds                       |          | information dissemination                      |
| GS       | sulfur compounds                    | 0                  | Group 6A compounds                       |          | postlaunch reports                             |
|          | . sulfites hydrosulfites            |                    | sulfonic acid                            |          | reports  |
|          | sodium sulfites                     | sulfur o           | lioxides                                 | summe    | r  |
|          | . r socialii saintos                | GS                 | chalcogenides                            | GS       | seasons  |
| sulfona  | ites                                |                    | . oxides                                 |          | . summer                                       |
| GS       | esters                              |                    | dioxides                                 | RT       | autumn   |
|          | . sulfonates                        |                    | sulfur dioxides                          |          | hot weather                                    |
|          | sulfur compounds                    |                    | sulfur oxides                            |          | solstices                                      |
| DT       | . sulfonates                        |                    | sulfur dioxides                          |          | spring (season)                                |
| KI °     | ∞ salts                             |                    | sulfur compounds<br>. sulfur oxides      |          | winter   |
| sulfone  | es.                                 |                    | sulfur dioxides                          | sumps    |  |
|          | sulfur compounds                    |                    | Sullul dioxides                          | RT       | drainage                                       |
|          | sulfones                            | sulfur f           | luorides                                 |          | pits (excavations)                             |
| RT       | sulfonic acid                       | GS                 | halogen compounds                        |          | waste disposal                                 |
|          |                                     |                    | fluorine compounds                       |          |  |
| sulfoni  |                                     |                    | fluorides                                | sums     |  |
| GS       | acids                               |                    | sulfur fluorides                         | RT       | algebra  |
| DT       | . sulfonic acid                     |                    | sulfur hexafluoride                      |          | amount arithmetic                              |
| RT       | sulfones<br>sulfur compounds        |                    | . halides                                |          | computation                                    |
|          | sului compounds                     |                    | fluorides<br>sulfur fluorides            |          | series (mathematics)                           |
| sulfur   |                                     |                    | sulfur hexafluoride                      |          | sum rules                                      |
| GS       | chemical elements                   |                    | sulfur compounds                         |          |  |
|          | . sulfur                            |                    | . sulfur fluorides                       | sun      |  |
|          | sulfur isotopes                     |                    | sulfur hexafluoride                      | DEF      | The star at the center of the solar            |
|          |                                     |                    |  |          | around which the planets, asteroids,           |
|          | chlorides                           | sulfur h           | exafluoride                              |          | nets revolve. It is a G-type star. Used for    |
| GS       |                                     |                    | ed September 1993)                       | solar di |  |
|          | . chlorine compounds                | GS                 | gases                                    | UF<br>GS | solar disk                                     |
|          | chlorides<br>sulfur chlorides       |                    | sulfur hexafluoride                      | GS       | celestial bodies<br>. stars                    |
|          | . halides                           |                    | halogen compounds                        |          | G stars  |
|          | chlorides                           |                    | . fluorine compounds fluorides           |          | sun  |
|          | sulfur chlorides                    |                    | sulfur fluorides                         |          | main sequence stars                            |
|          | sulfur compounds                    |                    | sulfur hexafluoride                      |          | sun  |
|          | . sulfur chlorides                  |                    | . halides                                | RT       | AOSO   |
|          |                                     |                    | fluorides                                |          | ASTEC solar turboelectric generator            |
| sulfur o | compounds                           |                    | sulfur fluorides                         |          | celestial mechanics                            |
| GS       |                                     |                    | sulfur hexafluoride                      |          | GRIST (telescope)                              |
|          | organic sulfur compounds            |                    | sulfur compounds                         |          | light sources                                  |
|          | . sulfates                          |                    | . sulfur fluorides                       |          | OSO  |
|          | alum                                |                    | sulfur hexafluoride                      |          | photosphere                                    |
|          | ammonium sulfates barite            | RT ∘               | chemical compounds                       |          | planets satellite solar energy conversion      |
|          | hydroxylamine sulfate               |                    | dielectrics                              |          | satellite solar power stations                 |
|          | lithium sulfates                    |                    | infrared spectroscopy<br>laser materials |          | solar activity                                 |
|          | magnesium sulfates                  |                    | working fluids                           |          | solar activity effects                         |
|          | hexahedrite                         |                    | Working haldo                            |          | solar arrays                                   |
|          | sodium sulfates                     | sulfur i           | sotopes                                  |          | solar atmosphere                               |
|          | . sulfides                          | GS                 | chemical elements                        |          | solar atriums                                  |
|          | disulfides                          |                    | . nuclides                               |          | solar auxiliary power units                    |
|          | carbon disulfide                    |                    | isotopes                                 |          | solar blankets                                 |
|          | inorganic sulfides                  |                    | sulfur isotopes                          |          | solar cells                                    |
|          | barium sulfides bismuth sulfides    |                    | . sulfur                                 |          | solar collectors<br>solar compasses            |
|          | cadmium sulfides                    |                    | sulfur isotopes                          |          | solar constant                                 |
|          | calcium sulfides                    | sulfur o           | vides                                    |          | solar cooling                                  |
|          | copper sulfides                     | GS                 | chalcogenides                            |          | solar corona                                   |
|          | hydrogen sulfide                    |                    | . oxides                                 |          | solar corpuscular radiation                    |
|          | indium sulfides                     |                    | sulfur oxides                            |          | solar cosmic rays                              |
|          | lead sulfides                       |                    | sulfur dioxides                          |          | solar cycles                                   |
|          | molybdenum sulfides                 |                    | sulfur compounds                         |          | solar eclipses                                 |
|          | molybdenum disulfides               |                    | . sulfur oxides                          |          | solar electric propulsion                      |
|          | polysulfides                        |                    | sulfur dioxides                          |          | solar electrons                                |
|          | strontium sulfides                  | RT                 | acid rain                                |          | solar energy                                   |
|          | zinc sulfides wurtzite              |                    | dioxides                                 |          | solar energy absorbers solar energy conversion |
|          | zincblende                          | sulfurio           | acid                                     |          | solar flares                                   |
|          | pyrites                             | GS                 |  |          | solar flux                                     |
|          | pyrrhotite                          |                    | . sulfuric acid                          |          | solar flux density                             |
|          | troilite                            |                    | sulfur compounds                         |          | solar furnaces                                 |
|          | . sulfites                          |                    | . sulfuric acid                          |          | solar generators                               |
|          | hydrosulfites                       | RT                 | sulfates                                 |          | solar granulation                              |
|          | sodium sulfites                     |                    |  |          | solar gravitation                              |
|          | . sulfonates                        | sum ru             |  |          | solar heating                                  |
|          | . sulfones                          | GS                 | rules                                    |          | solar houses                                   |
|          | . sulfur fluorides                  | DT                 | . sum rules                              |          | solar instruments                              |
|          | . sulfur fluorides                  | RT                 | sums                                     |          | solar interior                                 |
|          | sulfur hexafluoride . sulfur oxides | summa              | ries                                     |          | solar limb                                     |
|          | . sulfur oxides                     | <b>summa</b><br>GS | ries<br>summaries                        |          | solar longitude<br>solar magnetic field        |
|          | . sulfuric acid                     | 63                 | . abstracts                              |          | Solar Maximum Mission                          |
|          | . thiazine (trademark)              |                    | . prelaunch summaries                    |          | Solar Maximum Mission-A                        |
|          | . thiols                            | RT                 | annotations                              |          | Solar Mesosphere Explorer                      |
|          | cysteine                            |                    | bibliographies                           |          | solar nebula                                   |
|          | •                                   |                    | · .                                      |          |  |

|         | solar neighborhood  |               | sky   | GS      | fluid flow  |
|---------|---|---------------|---|---------|---|
|         | solar neutrinos   |               | sky brightness  |         | . turbulent flow  |
|         | solar oblateness  |               | sky radiation   |         | cavitation flow   |
|         | solar observatories   |               | solar energy  | DT      | supercavitating flow  |
|         | solar oscillations  |               | solar heating   | RT      | hydrofoil oscillations                                      |
|         | solar oscillations<br>solar parallax                                    |               | sun<br>thermal radiation  | superca | evitation   |
|         | solar physics   |               | ultraviolet radiation   |         | supercavitating flow  |
|         | solar ponds (heat storage)  |               | Umkehr effect   |         |   |
|         | solar position  |               | zodiacal light  | supercl | hargers   |
|         | solar power satellites  |               |   | UF      | supercharging   |
|         | solar powered aircraft  | sunrise       |   |         | turbochargers   |
|         | solar probes  |               | The crossing of the visible horizon by er limb of the ascending sun.            | GS      | compressors   |
|         | solar prominences   | RT            | morning   | RT      | . superchargers<br>air intakes                              |
|         | solar propulsion<br>solar protons                                       |               | science   | KI      | blowers   |
|         | solar radar echoes  |               | sunset  |         | centrifugal compressors                                     |
|         | solar radiation   |               | terminator lines  |         | compressing   |
|         | Solar Radiation 1 satellite   | aa4           |   |         | internal combustion engines                                 |
|         | Solar Radiation 3 satellite   | sunset<br>DEF | The crossing of the visible horizon by  |         | turbocompressors  |
|         | solar radiation shielding   |               | er limb of the descending sun.  |         | turbomachinery  |
|         | solar radio bursts  |               | evening   | ouporch | norging   |
|         | solar reflectors  |               | science   | superch | superchargers   |
|         | solar rotation<br>solar sails   |               | sunrise   | OOL     | Supercriai gers   |
|         | solar sea power plants  |               | terminator lines  | SuperC  | obra  |
|         | solar sea power plants  | sunspo        | t cyclo   | (adde   | ed April 1997)  |
|         | solar simulation  |               | A cycle with an average length of 11. 1   | USE     | AH-1W helicopter  |
|         | solar simulators  | vears bi      | at varying between 7 and 17 years in the  |         |   |
|         | solar spectra   |               | and area of sunspots, as given by the   | •       | omputers  |
|         | solar spectrometers   |               | sunspot number. This number rises from  |         | Computers with very large capacity                          |
|         | solar storms  | a minim       | um of 0 to 10 to a maximum of 50 to 140   |         | y high speed. data processing equipment                     |
|         | solar system  |               | years later, and then declines more   | 00      | . computers   |
|         | solar system evolution  | slowly.       |   |         | supercomputers  |
|         | solar temperature solar terrestrial interactions                        | GS            | cycles  |         | Connection Machine  |
|         | solar thermal propulsion  |               | . solar cycles  |         | Cray computers  |
|         | solar total energy systems  | RT            | sunspot cycle solar activity  | RT      | architecture (computers)                                    |
|         | solar velocity  | IXI           | starspots   |         | grid computing (computer networks)                          |
|         | solar wind  |               | stellar activity  |         | hypercube multiprocessors                                   |
|         | solar wind velocity   |               | •   |         | multiprocessing (computers) parallel processing (computers) |
|         | solar x-rays  | sunspo        |   |         | parallel processing (computers)                             |
|         | sunlight  | DEF           | Relatively dark areas on the surface of   | superce | onducting cavity resonators                                 |
|         | Ulysses mission   |               | consisting of dark central umbras sur-<br>l by penumbras which are intermediate |         | ed December 1992)   |
| sun ser | nsors   |               | ness between the umbras and the sur-  | GS      | resonators  |
| USE     | solar sensors   |               | g photosphere.  |         | . cavity resonators   |
|         |   |               | stellar activity  |         | superconducting cavity                                      |
| Sunbla  | zer space probe   |               | . solar activity  |         | resonators  |
| GS      | unmanned spacecraft   |               | sunspots  |         | superconducting devices                                     |
|         | . space probes solar probes   |               | . starspots   |         | . superconducting cavity resonators                         |
|         | Sunblazer space probe   | рт            | sunspots  | RT      | microwave oscillators                                       |
| RT      | multistage rocket vehicles  | RT            | faculae magnetic disturbances   |         | oscillators   |
|         | solid propellant rocket engines   |               | photosphere   |         | superconducting films                                       |
|         | 3   |               | solar cycles  |         | superconducting magnets                                     |
| sunflov |   |               | solar flares  |         |   |
|         | Any of a number of tall related plants                                  |               | solar terrestrial interactions  |         | onducting devices   |
|         | yellow, daisylike flowers with yellow,                                  |               | twenty-seven day variation  | GS (add | ed December 1992) superconducting devices                   |
|         | purple, or almost black disks containing rom which an oil is extracted. | Sunvac        | v Zaldovich offest  | GS      | . SIS (superconductors)                                     |
| GS      | farm crops  |               | <b>v-Zeldovich effect</b><br>ed July 2000)                                      |         | . squid (detectors)   |
| 00      | . sunflowers  |               | Compton scattering of microwave ra-   |         | . superconducting cavity resonators                         |
|         | plants (botany)   |               | n the vicinity of galaxy clusters resulting                                     |         | . superconducting magnets                                   |
|         | sunflowers  |               | ations in the cosmic microwave back-  | RT      | Josephson effect  |
| RT      | agriculture   |               | radiation (CMBR).   |         | superconducting films                                       |
|         | crop identification   | UF            | S-Z effect  |         | superconducting power transmission                          |
| 0       | o crops   | RT            | anisotropy  |         | superconducting super collider                              |
|         | Earth resources   |               | Compton effect  |         | tunnel junctions  |
| sungla  | SSES  |               | cosmic gases cosmic microwave background  | superce | onducting films   |
| RT      | eye protection  |               | radiation   |         | ed April 1989)  |
|         | eyepieces   | ۰             | effects   | RT      | BSCCO superconductors                                       |
|         | goggles   |               | galactic clusters   | 0       | ∘ films   |
|         | optical filters   |               | intergalactic media   |         | laser deposition  |
|         | visors  |               | microwave scattering  |         | pulsed laser deposition                                     |
| sunligh | ÷   |               | radio astronomy   |         | semiconducting films superconducting cavity resonators      |
| GS      | electromagnetic radiation   |               | relic radiation   |         | superconducting devices                                     |
|         | . light (visible radiation)   | Super S       | Sabre aircraft  |         | superconductors (materials)                                 |
|         | sunlight  |               | F-100 aircraft  |         | thick films   |
|         | extraterrestrial radiation  | a             | lave  |         | thin films  |
|         | . solar radiation   | superali      | oys<br>heat resistant alloys  |         | YBCO superconductors  |
|         | sunlight  | USE           | neat resistant alluys   |         |   |
| RT      | black body radiation  | superca       | pacitors  |         | onducting magnets   |
|         | circumsolar radiation   | (add          | ed September 2003)  | GS      | 9   |
|         | climatology<br>cloud cover  | USE           | electrochemical capacitors  |         | . electromagnets superconducting magnets                    |
|         | infrared radiation  | superc        | avitating flow  |         | superconducting magnets                                     |
|         | insolation  | UF            | supercavitation   |         | . superconducting magnets                                   |
|         |   |               | ,   |         | . 3 . 5   |

### superconducting power transmission

cryogenic magnets flux quantization Kelvin-Helmholtz instability flux pumps fullerides liquid helium high field magnets heavy fermion systems liquid helium 2 high temperature superconductors Josephson effect many body problem magnet coils quantum statistics pinning magnetic energy storage proximity effect (electricity) two fluid models superconducting cavity resonators solid state devices viscosity superconducting super collider squid (detectors) vortices strontium oxides superconducting power transmission superconducting films superfortress aircraft RT ∞ conductivity ÚSE **B-50** aircraft thermodynamic coupling cryogenics supercooling UF undercooling electric power transmission supergiant stars high temperature superconductors celestial bodies low temperature physics GS cooling . stars supercooling . . supergiant stars power lines superconducting devices aging (metallurgy) . . . R Coronae Borealis stars giant stars transition temperature Aitken nuclei transmission lines condensing K stars convection clouds M stars superconducting quantum interferometers crystallization massive stars squid (detectors) Mira variables heat treatment mechanical properties subgiant stars superconducting super collider nucleation particle accelerators supergravity quenching (cooling) superconducting super collider gravitation theory GS supersaturation storage rings (particle accelerators) supergravity superconducting devices supercritical airfoils broken symmetry cosmology superconducting magnets airfoils GS field theory (physics) . supercritical airfoils gauge invariance superconductivity . supercritical wings DEF A property of many elements, alloys, gauge theory RT airfoil profiles and compounds by virtue of which their electrigravitinos cal resistivity vanishes and they become supercritical flow gravitons strongly diamagnetic under appropriate condi-GS fluid flow group theory tions. Used for Meissner effect. supercritical flow lie groups UF Meissner effect critical flow particle theory electrical properties GS flow characteristics quantum theory . electrical resistivity gas flow relativity supersymmetry theoretical physics . . superconductivity liquid flow multiphase flow . . Kondo effect transport properties
. electrical resistivity unified field theory orifice flow pipe flow Yang-Mills theory .. superconductivity pressure gradients . . Kondo effect superharmonics single-phase flow Abrikosov theory steady flow GS harmonics BCS theory steam flow . superharmonics Bloch band subcritical flow cycles frequencies turbulent flow critical current unsteady flow Mach number cryogenics supersonic wind tunnels supercritical fluids cryotrons supersonics electron phonon interactions RT fluid mechanics electron tunneling ∞ fluids superheating flux pinning solubility GS heating supercritical pressures flux pumps . superheating gallium alloys RT steam high temperature superconductors supercritical pressures Josephson junctions pressure superheterodyne receivers Landau factor supercritical pressures GS communication equipment Landau-Ginzburg equations thermodynamic properties . radio receivers low temperature physics . thermophysical properties . . superheterodyne receivers solid state physics supercritical pressures radio equipment critical pressure spin glass . radio receivers transition temperature high pressure . . superheterodyne receivers trapped magnetic fields liquid phases receivers vector currents supercritical fluids . radio receivers vortices vapor phases . superheterodyne receivers YBCO superconductors vapor pressure beat frequencies heterodyning superconductor insulator superconductors supercritical wings USE SIS (superconductors) airfoils superhigh frequencies (3 TO 30 GHZ) KU band . supercritical airfoils superconductors (materials) .. supercritical wings DEF Materials that exhibit superconductivity S band . wings under appropriate conditions. . supercritical wings X band conductors CL-600 challenger aircraft frequencies . superconductors (materials) spanloader aircraft . radio frequencies . . high temperature superconductors wing profiles . . microwave frequencies superhigh frequencies ... BSCCO superconductors ∞ winged vehicles . . . YBCO superconductors RT C band . . heavy fermion superconductors superfluid flow centimeter waves unified S band . organic superconductors USE superfluidity Abrikosov theory VSAT (network) carrier mobility superfluidity critical current superfluid flow superhumps (astronomy) (added October 1998) cryogenic computer storage Bose-Einstein condensates RT

compressible fluids

incompressible fluids

∞ fluids

accretion disks astronomical photometry

binary stars

cryotrons

electron gas

energy storage

cataclysmic variables dwarf novae eclipsing binary stars stellar spectrophotometry

superhybrid materials

Composites of polymers, boronaluminum, and titanium.

GS composite materials

. superhybrid materials

. . graphite-epoxy composites boron-epoxy composites carbon fiber reinforced plastics

fiber composites

hybrid composites

∞ materials reinforcing fibers

superimposition (mathematics)

USE superposition (mathematics)

#### superlattices

Crystals grown by depositing semiconductors in layers whose thickness is measured in atoms.

crystal lattices GS

superlattices

semiconductors (materials)

superlattices

antiphase boundaries crystal dislocations crystal structure gallium arsenides lattice parameters quantum Hall effect

supermagnets

USE high field magnets

#### supermassive stars

Stars with masses exceeding about 50 times that of the sun.

celestial bodies GS

stars

### . supermassive stars

degenerate matter massive stars Population III stars stellar models stellar structure

### supernova 1987A

celestial bodies GS

. stars

. . variable stars

. . . supernovae

supernova 1987A

RT Magellanic clouds

### supernova remnants

black holes (astronomy) magnetars

neutron stars North Polar Spur (astronomy)

pulsars red dwarf stars

soft gamma repeaters

supernovae white dwarf stars

white holes (astronomy)

### supernovae

GS celestial bodies

. . variable stars

... supernovae

. supernova 1987A

RT Crab nebula

gravitational collapse

nebulae novae Opik theory Orion nebula stellar mass

stellar mass ejection stellar physics

supernova remnants

superoxides

USE inorganic peroxides

#### superplastic forming

(added July 1994) UF SPF (materials) bonding elastoplasticity metal working plastic deformation superplasticity

#### superplasticity

GS mechanical properties . plastic properties superplasticity creep properties crystal dislocations elongation

eutectic alloys heat resistant alloys plastic deformation

plastic flow superplastic forming

#### superposition (mathematics)

superimposition (mathematics)

equivalent circuits linear circuits

∞ mathematics

∞ nets

network analysis network synthesis

#### superpressure balloons

DEF Meteorological balloons consisting of nonextensible envelopes designed to withstand higher internal pressure differentials than external ones. Such balloons will maintain constant elevations until sufficient gas diffuses from them to cause a change in buoyancy. Used for constant volume balloons and tetroons.

constant volume balloons

tetroons expandable structures . inflatable structures

. . balloons

... high altitude balloons

superpressure balloons

balloon sounding

meteorological balloons

### superrotation

The generally more rapid relative motions found in the very tenuous regions of the atmosphere at heights around 300 km. The density of the atmosphere decreases rapidly with height and more than 95 percent of the mass of the atmosphere is contained within the troposphere and lower stratosphere. These regions of the atmosphere rotate faster on average than the underlying solid Earth.

GS gyration . rotation

. superrotation atmospheric circulation Earth atmosphere Earth rotation rotating fluids

### supersaturation

condensing crystallization heat treatment Mayer problem precipitation (chemistry) precipitation hardening quenching (cooling) solid solutions supercooling

### supersonic aircraft

(AIRCRAFT DESIGNED TO FLY AT SPEEDS ABOVE MACH 1 AND BELOW

transonic aircraft UF supersonic aircraft GS

. A-5 aircraft

B-58 aircraft

. B-70 aircraft

. Boeing 733 aircraft

D-558 aircraft

. F-4 aircraft

. F-5 aircraft

. F-8 aircraft . F-14 aircraft

. F-15 aircraft

. F-16 aircraft

. F-17 aircraft . F-22 aircraft

. F-100 aircraft

. F-101 aircraft . F-102 aircraft

F-104 aircraft

. F-106 aircraft

. F-111 aircraft

. Firebee 2 target drone aircraft

. G-95/4 aircraft

. Jaguar aircraft . MiG aircraft

. Mirage aircraft

. Mirage 3 aircraft Nord 1500 aircraft P-1154 aircraft

Saab 37 aircraft

. SR-71 aircraft

. supersonic transports

CL-823 aircraft

Concorde aircraft . . L-2000 aircraft

. . supersonic commercial air transport

Boeing 2707 aircraft
TU-144 aircraft

. T-38 aircraft . TSR-2 aircraft

. VJ-101 aircraft . X-1 aircraft

. X-2 aircraft

. X-3 aircraft

. X-15 aircraft . X-32 aircraft

RT ∞ aircraft

attack aircraft

fighter aircraft hypersonic aircraft

jet aircraft passenger aircraft

reconnaissance aircraft

research aircraft ∞ subsonic aircraft

supersonic cruise aircraft research

supersonics sweptback wings

transport aircraft trapezoidal tail surfaces

variable cycle engines variable stream control engines

## supersonic airfoils

GS airfoils

supersonic airfoils

sweepback sweptback tail surfaces

# sweptback wings

supersonic boundary layers GS boundary layers

. supersonic boundary layers

fluid flow

laminar boundary layer supersonics

turbulent boundary layer two dimensional boundary layer

### supersonic combustion

GS combustion

supersonic combustion

engines fuel combustion

## supersonic combustion ramjet engines

scramjet engines scramjets

engines

. air breathing engines

. . gas turbine engines

. . . jet engines

. . . . ramjet engines

#### .... supersonic combustion ... supersonic drag .. supersonic low altitude missile ramjet engines interference drag . surface to surface missiles . internal combustion engines . supersonic low altitude missile wave drag . . gas turbine engines nuclear ramjet engines supersonic flight Pluto reactors ... jet engines . . . . ramjet engines RT caustic lines ramjet engines .... supersonic combustion ∞ flight ramjet engines hypersonic flight supersonic nozzles . turbine engines jet lag DEF Converging diverging nozzles de-Mach cones signed to accelerate a fluid to supersonic speed. . . gas turbine engines . . . jet engines missiles RT coaxial nozzles . . . . ramjet engines rocket flight conical nozzles .... supersonic combustion sonic booms convergent-divergent nozzles hypersonic nozzles ramjet engines supersonics RT combustion transonic flight ∞ nozzles rocket nozzles missiles ramjet missiles supersonic flow screech tones DEF In aerodynamics, flow of a fluid over a sonic nozzles rocket-based combined-cycle engines body at speeds greater than the acoustic veloc-∞ SCRAM transonic nozzles ity and in which the shock waves start at the X-43 vehicle variable stream control engines surface of the body. wind tunnel nozzles fluid flow supersonic commercial air transport GS SCAT . supersonic flow supersonic speed commercial aircraft . . supersonic jet flow (BETWEEN MACH 1 AND 4. 9) rates (per time) . supersonic commercial air aerodynamics compressibility effects . supersonic speed transport . . Boeing 2707 aircraft compressible flow velocity . . TU-144 aircraft flow velocity supersonic speed gas flow acoustic velocity supersonic aircraft . supersonic transports Godunov method high speed hypersonic speed supersonic commercial air hypersonic flow hypersonics hypervelocity flow transport ... Boeing 2707 aircraft Mach cones supersonics ... TU-144 aircraft Prandtl-Meyer expansion secondary injection transonic speed supersonic test apparatus supersonic compressors shock waves RT hypersonic test apparatus DEF Compressors in which supersonic vetransonic flow locity is imparted to the fluid relative to the rotor supersonics wedge flow blades, the stator blades, or to both the rotor and wind tunnels wind tunnel apparatus the stator blades, producing oblique shock waves over the blades to obtain a high pressure supersonic flow inlets supersonic transports USE supersonic inlets rise GS supersonic aircraft GS compressors . supersonic transports supersonic flutter supersonic compressors . . CL-823 aircraft RT oblique shock waves GS vibration . . Concorde aircraft . structural vibration transonic compressors .. L-2000 aircraft turbocompressors . . flutter . . supersonic commercial air ... supersonic flutter . . self induced vibration supersonic cruise aircraft research transport ... Boeing 2707 aircraft ... TU-144 aircraft SCAR program . supersonic flutter GS programs missile vibration RT cargo aircraft . NASA programs transonic flutter commercial aircraft .. supersonic cruise aircraft supersonic heat transfer passenger aircraft research supersonic cruise aircraft research RT ∞ aircraft GS transmission . heat transmission supersonic aircraft supersonic turbines . . heat transfer supersonic transports ... aerodynamic heat transfer transonic turbines turbomachinery GS supersonic diffusers ... supersonic heat transfer Diffusers designed to reduce the ve-RT hypersonic heat transfer . turbines . . supersonic turbines locity and increase the pressure of fluid moving supersonics at supersonic velocities. gas turbine engines RT air intakes supersonic inlets gas turbines supersonic flow inlets ∞ diffusers UF rotor stator interactions transonic inlets exhaust diffusers GS flow stability intake systems supersonic wakes vaneless diffusers . air intakes GS wakes . supersonic inlets supersonic wakes supersonic drag RT bypass ratio aircraft wakes hypersonic inlets GS aerodynamic characteristics hypersonic wakes . aerodynamic drag inlet airframe configurations . . supersonic drag inlet flow supersonic wind tunnels aerodynamic forces internal compression inlets GS test facilities . aerodynamic drag nose inlets . wind tunnels . supersonic drag side inlets supersonic wind tunnels dynamic characteristics blowdown wind tunnels . drag supersonic jet flow hypersonic wind tunnels . . friction drag GS fluid flow hypervelocity wind tunnels . . . aerodynamic drag . jet flow low density wind tunnels .... supersonic drag . supersonic jet flow shock tunnels slotted wind tunnels . . pressure drag . supersonic flow ... supersonic drag . . supersonic jet flow subsonic wind tunnels friction gas flow superharmonics

nozzle flow

SLAM

missiles

UF

GS

screech tones

supersonic low altitude missile

. ramiet missiles

transonic wind tunnels

DEF Specifically, the study of aerodynamics

supersonics

of supersonic speeds.
GS fluid mechanics

. fluid dynamics

. flow resistance

. . . aerodynamic drag

. . . aerodynamic drag

. . . supersonic drag

. . friction drag

. skin friction

. . friction drag

|          | gas dynamics                       | ۰             | o systems  |         | microcracks                               |
|----------|------------------------------------|---------------|--|---------|---|
|          | aerodynamics                       |               | 4-   |         | solid surfaces                            |
| RT       | supersonics                        | support<br>UF | mounts   | ~       | surfaces                                  |
| KI       | aerothermodynamics<br>hypersonics  | Oi            | stands   | surface | defects                                   |
|          | Mach cones                         | GS            | supports   | GS      | defects                                   |
|          | superharmonics                     |               | . pylons   |         | . surface defects                         |
|          | supersonic aircraft                |               | . saddles (supports)   |         | surface properties                        |
|          | supersonic boundary layers         |               | tripods  |         | surface defects                           |
|          | supersonic flight                  | RT            | bearings   | RT      | caustics (optics)                         |
|          | supersonic heat transfer           |               | carriages  |         | crack initiation                          |
|          | supersonic speed                   |               | chassis  |         | crystal defects                           |
|          | supersonic test apparatus          |               | foundations  |         | crystal dislocations                      |
|          |                                    |               | frames<br>gimbals  |         | fatigue (materials) mechanical properties |
|          | ing theory                         | ۰             | ∘ headers  |         | point defects                             |
| USE      | string theory                      |               | lugs   | ~       | surfaces                                  |
|          |                                    |               | pivots   |         |   |
| supersy  |                                    | 0             | o platforms  |         | diffusion                                 |
| GS       | symmetry                           |               | pylon mounting   | GS      | diffusion                                 |
| RT       | bosons                             |               | racks (frames)   | RT      | . surface diffusion                       |
| 111      | broken symmetry                    |               | reinforcement (structures)                                       | KI      | adatoms<br>molecular diffusion            |
|          | cosmology                          |               | shafts (machine elements) struts                                 | 00      | surfaces                                  |
|          | fermions                           |               | substructures  |         | thermal diffusion                         |
|          | field theory (physics)             |               | support interference   |         |   |
|          | gauge theory                       | 0             | ∘ sustaining   |         | distortion                                |
|          | grand unified theory               |               | trusses  | GS      | distortion                                |
|          | gravitation theory                 |               |  | D.T.    | surface distortion                        |
|          | group theory                       | suppres       |  |         | surface geometry                          |
|          | lie groups particle theory         | USE           | retarding  | ~       | surfaces                                  |
|          | quantum theory                     | suppre        | seore  |         | warpage                                   |
|          | string theory                      | GS            | suppressors  | surface | effect ships                              |
|          | supergravity                       |               | . echo suppressors   |         | Vessels using ground effect principle     |
|          | theoretical physics                | RT            | absorbers (materials)  | and hav | ring submerged rigid sidewalls (seal      |
|          | unified field theory               |               | additives  |         | sed for SES.                              |
|          |                                    |               | attenuators  |         | SES                                       |
| supine ¡ | oosition                           |               | baffles  | GS      | surface vehicles                          |
| RT       | acceleration protection            |               | circuit protection damping                                       |         | . surface effect ships<br>water vehicles  |
|          | head up tilt                       |               | infrared suppression   |         | . ships                                   |
|          | prone position                     |               | inhibitors   |         | surface effect ships                      |
|          | rest<br>sitting position           |               | insulation   | RT      | captured air bubble vehicles              |
|          | tilt-table test                    |               | isolators  | ~       | effects                                   |
|          |                                    |               | mufflers   |         | research vehicles                         |
| supplen  | nents                              |               | neutralizers   | ~       | surfaces                                  |
|          | documents                          |               | noise reduction  |         | SWATH (ship)<br>vehicles                  |
|          | . supplements                      |               | retardants<br>shielding  | ~       | wing-in-ground effect vehicles            |
| RT       | contracts                          |               | silencers  |         | wing in ground effect verifices           |
|          | extensions                         |               | squelch circuits   | surface | emitting lasers                           |
|          | indexes (documentation)            |               |  |         | ed March 1992)                            |
|          | motion pictures                    | surface       | acoustic wave devices  | GS      | stimulated emission devices               |
|          | records                            | UF            | S-A-W devices  |         | . lasers                                  |
|          | reports                            | RT            | acoustic delay lines   | DT      | surface emitting lasers                   |
|          |                                    |               | bulk acoustic wave devices                                       | KI      | laser arrays                              |
| supplyir |                                    | •             | <ul> <li>devices</li> <li>electroacoustic transducers</li> </ul> |         | lasing light emitting diodes              |
| RT       | commerce consumption               |               | electroacoustics   |         | semiconductor lasers                      |
|          | demand (economics)                 |               | interdigital transducers   |         | solid state lasers                        |
|          | filling                            |               | microsonics  |         | stimulated emission                       |
|          | injection                          |               | signal processing  |         | waveguide lasers                          |
|          | input                              |               | sound waves  |         |   |
|          | marketing                          |               | ultrasonic wave transducers                                      | surface |   |
|          | output                             | curfaca       | cooling  | GS      | surface properties . surface energy       |
|          |                                    |               | cooling  |         | thermodynamic properties                  |
|          | interference                       | 00            | . surface cooling  |         | . surface energy                          |
| RT       | antenna radiation patterns         | RT            | convective heat transfer   | RT      | activation energy                         |
| 00       | interference                       |               | evaporative cooling  |         | electron energy                           |
|          | supports                           |               | film cooling   | ~       | energy                                    |
|          | vibration effects                  |               | radiant cooling  |         | interfacial energy                        |
|          |                                    |               | radiative heat transfer  |         | interfacial tension                       |
|          | systems<br>support systems         | ۰             | surfaces   |         | proton energy<br>surfaces                 |
| GS       | ground operational support system  |               | sweat cooling  | α.      | thermophysical properties                 |
|          | . ground support systems           |               | temperature  |         | morniophysical properties                 |
|          | . life support systems             | surface       | cracks   | surface | finishing                                 |
|          | . biopaks                          | UF            | crazing  |         | surface treatment                         |
|          | closed ecological systems          | GS            | fractures (materials)  |         | . surface finishing                       |
|          | emergency life sustaining systems  |               | cracks   | RT      | cleaning                                  |
|          | AEPS                               |               | surface cracks   |         | coating                                   |
|          | portable life support systems      |               | surface properties   |         | coatings                                  |
|          | AEPS<br>IMLSS                      | RT            | . surface cracks<br>crack closure                                |         | corrosion prevention corrosion resistance |
|          | liviLSS . decision support systems | ΚI            | crack closure  |         | electroplating                            |
|          | . pilot support systems            |               | crack initiation   |         | electropolishing                          |
| RT       | self sealing                       |               | crack propagation  |         | finishes                                  |
|          | services                           |               | edge cracks  |         | machining                                 |

metal finishing GS navigation planar structures metal grinding surface navigation planetary surfaces metal polishing celestial navigation profilometers metal spraying dead reckoning ∞ properties metal surfaces Decca navigation reflectance micromachining digital navigation roughness hyperbolic navigation selenography polishing protective coatings inertial navigation solid surfaces shot peening LORAC navigation system solid-solid interfaces solid surfaces sorption nautical charts sputtering surface geometry ∞ surfaces navigation aids surface tension driven convection radar navigation surface treatment wear radio navigation ∞ surfaces surface geometry textures ships (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS ∞ surfaces viscosity unmanned ground vehicles void ratio LISTED BELOW) wettability concavity surface noise interactions convexity RT acoustic excitation Surface Radiation Budget project Cosserat surfaces (added October 2007) acoustic scattering flat surfaces aeroacoustics DEF A 12-year project to produce and arflatness chive a global data set of shortwave and longaerodynamic noise geometry Ffowcs Williams-Hawkings equation wave Earth surface and top of the atmosphere Lambert surface rotor stator interactions parameters using International Satellite Cloud lofting planforms Climatology Project (ISCCP) and Earth Radiation Budget Experiment (ERBE) data. The SRB shapes surface plasmon resonance data sets contain three hourly, daily, and surface distortion (added April 2004) monthly averages of surface longwave and surface lavers DEF A condition of resonance in which the shortwave radiative properties, cloud amount, surface properties propagation of surface plasmon waves occurs at and meteorological properties computed using surface reactions the interface of a dielectric with a highly reflecmodels surface roughness SRB project tive metal. UF surface stability plasmons GS programs ∞ surfaces . projects surface pressure ... Surface Radiation Budget surface interactions USE pressure project USE surface reactions RT data products surface properties Earth radiation budget surface ionization Bardeen approximation GS ionization long wave radiation surface properties surface ionization radiative transfer . adhesion ionizers remote sensing . . stiction satellite observation ∞ surfaces . adsorptivity short wave radiation . coefficient of friction surface layers interfacial tension RT atmospheric stratification surface reactions . spectral reflectance barrier layers UF surface interactions surface cracks boundary layer thickness chemical reactions surface defects boundary layers erosion surface energy crystal surfaces fluid-solid interactions . surface roughness ∞ layers gas-liquid interactions surface stability lunar surface interfaces . surface temperature monomolecular films metal surfaces . . land surface temperature oxide films metal-water reactions . . sea surface temperature solar granulation spacecraft glow . . skin temperature (non-biological) ∞ surface geometry surface geometry wall temperature surface treatment ∞ surfaces RT absorptance. ∞ surfaces surfactants albedo vaporizing thermoclines atomic force microscopy ∞ transition lavers bidirectional reflectance surface roughness Surface Meteorology and Solar Energy coarseness DEF The deviation of the topography of an coating actual surface from an ideal atomically smooth project (added October 2007) coatings and planar surface. A 10-year project to produce and arcolor GS roughness chive a global data set of the Earth's radiation contact potentials . surface roughness budget (shortwave and longwave) using Internacontact resistance surface properties tional Satellite Cloud Climatology Project (IScorrosion . surface roughness CCP) data and radiative transfer models. The Cosserat surfaces coarseness SSE data sets contain insolation and meteoroldiffusion friction effervescence ogy data intended to aid in the development of lunar topography machining mechanical properties renewable energy systems. emissivity evanescence UF SSE project GS finishes profilometers programs runway conditions ∞ surface geometry flat surfaces . projects . . Surface Meteorology and Solar foaming friction **Energy project** ∞ surfaces data products
Earth radiation budget hardness topography hot corrosion insolation hydrophobicity surface roughness effects interfaces RT ∞ effects long wave radiation Jupiter red spot friction drag radiative transfer lunar albedo reflectance remote sensing

lunar surface lunar topography

metal surfaces

permeability

optical properties

∞ physical properties

mechanical properties

surface stability
GS stability

∞ surfaces

. surface stability

separated flow

speckle patterns

renewable energy

marine navigation

solar energy

surface navigation

UF

satellite observation

short wave radiation

surface properties . Tomahawk missiles . nuclear powered ships surface stability . . fleet ballistic missiles . . Savannah nuclear ship coarseness Polaris A1 missile . roadway powered vehicles dynamic stability Polaris A2 missile . roving vehicles interfacial tension ... Polaris A3 missile . . lunar roving vehicles motion stability Poseidon missiles . . . Lunokhod lunar roving vehicles static stability . . . Subroc missile . . . manned lunar surface vehicles storage stability . . intercontinental ballistic missiles . . Mars roving vehicles ∞ surface geometry ... Atlas ICBM . . . Marsokhod Mars roving vehicles ∞ surfaces . . . . Atlas D ICBM . satellite communications ships thermal stability . . . . Atlas E ICBM . sleds Atlas F ICBM . . rocket propelled sleds surface temperature . . . Minuteman ICBM . surface effect ships GS surface properties SWATH (ship) MX missile surface temperature Titan ICBM . tanks (combat vehicles) . . land surface temperature . Titan 1 ICBM . transporter . unmanned ground vehicles . . sea surface temperature . . Titan 2 ICBM . walking machines
RT amphibious vehicles ... skin temperature (non-biological) . . intermediate range ballistic missiles . wall temperature . . . Blue Streak missile 
 bicycle
 ground effect machines
 temperature Jupiter missile . surface temperature . . . polaris missiles . . land surface temperature . Polaris A1 missile rail transportation . . sea surface temperature Polaris A2 missile rails . . skin temperature (non-biological) Polaris A3 missile ships . wall temperature . Lance missile ∞ surfaces coarseness Mace missiles underwater vehicles geothermal anomalies urban transportation Pershing missile ocean temperature Regulus missile vehicles ∞ surfaces sergeant missiles vehicular tracks temperature sensitive paints short range ballistic missiles water vehicles thermoclines supersonic low altitude missile water temperature . V-1 missile air to surface missiles All the waters on the surface of the surface tension ballistic missiles Earth including fresh and salt water, ice and USE interfacial tension Harpoon missile snow. ramjet missiles GS water surface tension driven convection ∞ rockets surface water (added December 1995) ∞ surfaces Earth resources convection ground water surface tension driven convection surface to surface rockets lakes . Marangoni convection GS rocket vehicles polynyas capillary flow surface to surface rockets ponds convective flow . . Honest John rocket vehicle rivers interfacial tension Little John rocket vehicle streams ∞ microgravity applications RT ∞ rockets ∞ surfaces oscillating flow ∞ surfaces water sampling surface properties surface treatment surface waves surface to air missiles (added April 1990) (EXCLUDES SURFACE RADIO WAVES)
surface waves ground-to-air missiles GS surface treatment missiles . capillary waves surface finishing . surface to air missiles RT anodizing . . Blue Goose missile coating . . . baroclinic waves . . BOMARC missiles corrosion prevention . . ripples BOMARC A missile paint removal . electromagnetic surface waves BOMARC B missile surface layers . evanescent waves . Sommerfeld waves RT bow waves . . Chaparral missile surface properties Hawk missile ∞ treatment Mauler missile cnoidal waves surface vehicles Nike missiles crustal fractures . Nike-Ajax missile GS surface vehicles elastic waves Nike-Hercules missile . aircraft carriers internal waves . automated transit vehicles Nike-Zeus missile lee waves Patriot missile . . automated guideway transit liquid surfaces Redeye missile vehicles Love waves Sprint missile . boats microsonics Talos missile . . lifeboats P waves captured air bubble vehicles . . tartar missile S waves . terrier missile . cargo ships sea roughness RT air to air missiles . . Savannah nuclear ship seismic waves air to surface missiles tanker ships splashing dollies antiaircraft missiles ∞ surfaces antimissile missiles electric hybrid vehicles tropospheric waves Nike X systems . lunar surface vehicles tsunami waves . . lunar mobile laboratories ramjet missiles water currents ∞ rockets . . lunar roving vehicles water waves Sentinel system Lunokhod lunar roving vehicles ∞ waves . . . manned lunar surface vehicles space weapons Spartan missile . magnetic levitation vehicles surface-active agents ∞ surfaces . motor vehicles USE surfactants . . automated mixed traffic vehicles surface to surface missiles . . automobiles surfaces GS missiles . electric automobiles (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) curved surfaces . surface to surface missiles . . electric motor vehicles . . antitank missiles . electric automobiles ... Shillelagh missiles . . tractors . tow missiles lifting surfaces . . . crawler tractors

. . . tracked vehicles

. . trucks

. . . tank trucks

. . Corporal missile

Navaho missile

. . cruise missiles

air to surface missiles

airfield surface movements

airport surface detection equipment

| Apollo Lunar Surface Experiments Package  | zwitterions  | synthetic aperture radar tracking radar  |
|---|--|--|
| area  | surgeons   | addining radia.  |
| cold surfaces   | GS personnel   | surveying  |
| control surfaces  | . medical personnel  | USÉ <b>surveys</b>   |
| Cosserat surfaces   | surgeons   |  |
| crystal surfaces  | flight surgeons  | Surveyor 1 lunar probe   |
| Earth surface   |  | GS lunar spacecraft  |
| EASEP   | surgery  | . lunar probes   |
| electromagnetic surface waves   | GS medical science   | Surveyor lunar probes  |
| elevators (control surfaces)  | . surgery  | Surveyor 1 lunar probe   |
| external surface currents   | labyrinthectomy  RT clinical medicine  | soft landing spacecraft<br>. Surveyor lunar probes   |
| Fermi surfaces  | heart implantation   | Surveyor 1 lunar probe   |
| flaps (control surfaces)  | ∞ operations   | unmanned spacecraft  |
| flat surfaces   | skin grafts  | . space probes   |
| horizontal tail surfaces  | transplantation  | lunar probes   |
| hot surfaces  | veterinary medicine  | Surveyor lunar probes  |
| interfaces<br>interfacial tension   | ,  | Surveyor 1 lunar probe   |
| Lambert surface   | surges   | RT Atlas Centaur launch vehicle  |
| liquid surfaces   | DEF Transient rises in power or pressure   |  |
| LSSM  | such as a brief rise in the discharge pressure of  | Surveyor 2 lunar probe   |
| lunar surface   | a rotary compressor. Used for transients   | GS lunar spacecraft  |
| lunar surface vehicles  | (surges).  | . lunar probes   |
| manned lunar surface vehicles   | UF transients (surges)   | Surveyor lunar probes  |
| Mars surface  | RT circuit protection  | Surveyor 2 lunar probe   |
| Mars surface samples  | fluid flow   | soft landing spacecraft<br>. Surveyor lunar probes   |
| menisci   | overvoltage  | Surveyor 2 lunar probe   |
| metal surfaces  | storm surges<br>variations   | unmanned spacecraft  |
| minimal surfaces  | water hammer   | . space probes   |
| ocean surface   | ∞ waves  | lunar probes   |
| planetary surfaces  | 114700   | Surveyor lunar probes  |
| satellite surfaces  | surgical instruments   | Surveyor 2 lunar probe   |
| sizing (surface treatment)  | GS medical equipment   | RT Atlas Centaur launch vehicle  |
| solid surfaces<br>surface cooling   | surgical instruments   |  |
| surface cooling   | RT ∞ instruments   | Surveyor 3 lunar probe   |
| surface defects   | needles  | GS lunar spacecraft  |
| surface diffusion   |  | . lunar probes   |
| surface distortion  | Surinam  | Surveyor lunar probes  |
| surface effect ships  | GS nations   | Surveyor 3 lunar probe   |
| surface energy  | . Surinam  | soft landing spacecraft  |
| surface finishing   | RT Caribbean region  |  |
|   | Nothorlands  | . Surveyor lunar probes  |
| ∞ surface geometry  | Netherlands  | . Surveyor 3 lunar probe   |
| ∞ surface geometry     surface ionization   | Netherlands<br>South America   | Surveyor 3 lunar probe unmanned spacecraft   |
| surface ionization<br>surface layers  | South America  | . Surveyor 3 lunar probe unmanned spacecraft space probes  |
| surface ionization<br>surface layers<br>surface navigation  | South America surveillance   | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes   |
| surface ionization<br>surface layers<br>surface navigation<br>surface properties  | South America surveillance GS surveillance   | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes   |
| surface ionization<br>surface layers<br>surface navigation<br>surface properties<br>surface reactions   | South America surveillance   | Surveyor 3 lunar probe unmanned spacecraft space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe  |
| surface ionization<br>surface layers<br>surface navigation<br>surface properties<br>surface reactions<br>surface roughness  | South America  surveillance GS surveillance . space surveillance (ground based)  | Surveyor 3 lunar probe unmanned spacecraft space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe  |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne)  | Surveyor 3 lunar probe unmanned spacecraft space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe  |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface stability   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control   | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness surface stability surface temperature   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection  | . Surveyor 3 lunar probe unmanned spacecraft . space probes . lunar probes . Surveyor lunar probes . Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes   |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness effects surface stability surface temperature surface to air missiles   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources  | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes   |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness effects surface stability surface temperature surface to air missiles surface to surface missiles   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection  | Surveyor 3 lunar probe unmanned spacecraft space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft lunar probes Surveyor lunar probes Surveyor 4 lunar probe  |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness effects surface stability surface temperature surface to air missiles surface to surface missiles surface to surface missiles   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection ice mapping  | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes Surveyor 4 lunar probes Surveyor 4 lunar probes soft landing spacecraft   |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness effects surface stability surface temperature surface to air missiles surface to surface missiles   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection ice mapping ice reporting  | Surveyor 3 lunar probe unmanned spacecraft space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft lunar probes Surveyor lunar probes Surveyor 4 lunar probe soft landing spacecraft Surveyor lunar probes  |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness surface stability surface temperature surface to air missiles surface to surface missiles surface to surface missiles surface vehicles  | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) command and control conical scanning crime detection Earth resources forest fire detection ice mapping ice reporting inspection  | Surveyor 3 lunar probe unmanned spacecraft space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft lunar probes Surveyor lunar probes Surveyor 4 lunar probe soft landing spacecraft Surveyor lunar probes Surveyor lunar probes Surveyor 4 lunar probes Surveyor 4 lunar probes Surveyor 4 lunar probe   |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness surface stability surface temperature surface to air missiles surface to surface missiles surface to surface rockets surface vehicles surface water   | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection ice mapping ice reporting inspection observation   | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes soft landing spacecraft . Surveyor lunar probes Surveyor 4 lunar probe soft landing spacecraft . Surveyor 4 lunar probe unmanned spacecraft   |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness effects surface stability surface temperature surface to air missiles surface to surface missiles surface to surface rockets surface water surface water  | South America  surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection ice mapping ice reporting inspection observation panoramic scanning  | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes Surveyor 4 lunar probe soft landing spacecraft . Surveyor lunar probes Surveyor 4 lunar probe unmanned spacecraft . space probes  |
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| surface ionization surface layers surface navigation surface properties surface reactions surface reactions surface roughness surface roughness effects surface stability surface temperature surface to air missiles surface to surface missiles surface to surface missiles surface vehicles surface water surface waves sweptback tail surfaces T tail surfaces T tail surfaces tabs (control surfaces) tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies under surface blowing underwater to surface missiles upper surface blowing upper surface blowing upper surface blowing upper surface blowing surface wear  surfactants  DEF A material that improves the emulsifying, dispersing, wetting, or other surface- modifying properties of liquids. Used for surface- active agents.  UF surface-active agents RT admixtures  agents detergents hydrophobicity monomolecular films plasticizers retardants   | surveillance GS surveillance (ground based) . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection ice mapping ice reporting inspection observation panoramic scanning radar scanning reconnaissance scanning situational awareness target acquisition target recognition targets visual observation  surveillance radar . airborne surveillance radar . airborne surveillance radar RT air traffic control airport surface detection equipment coherent radar continuous wave radar digital radar systems Doppler radar meteorological radar pulse radar radar approach control radar tracking radarscopes satellite-borne radar | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes Surveyor 4 lunar probe soft landing spacecraft . Surveyor 4 lunar probe unmanned spacecraft . space probes lunar probes Surveyor 4 lunar probe unmanned spacecraft . space probes lunar probe RT Atlas Centaur launch vehicle  Surveyor 5 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes Surveyor lunar probes Surveyor lunar probes Surveyor lunar probe soft landing spacecraft . lunar probes Surveyor 5 lunar probe soft landing spacecraft . Surveyor 1 lunar probe unmanned spacecraft . space probes Surveyor 5 lunar probe unmanned spacecraft . space probes Surveyor 5 lunar probe unmanned spacecraft . space probes Surveyor 5 lunar probe and thas Centaur launch vehicle  Surveyor 6 lunar probe GS lunar spacecraft . lunar probe GS lunar spacecraft . lunar probe GS lunar spacecraft . lunar probe GS lunar probe GS lunar probe GS lunar spacecraft . lunar probes Surveyor 6 lunar probe soft landing spacecraft . Surveyor 6 lunar probe soft landing spacecraft . Surveyor lunar probes |
| surface ionization surface layers surface navigation surface properties surface reactions surface roughness surface roughness surface roughness effects surface stability surface temperature surface to air missiles surface to surface missiles surface to surface rockets surface vehicles surface waves sweptback tail surfaces T tail surfaces T tail surfaces Townsend avalanche trapezoidal tail surfaces two dimensional bodies under surface blowing underwater to surface missiles upper surface blowing undervater to surface missiles upper surface blown flaps Venus surface wear  surfactants DEF A material that improves the emulsifying, dispersing, wetting, or other surface- modifying properties of liquids. Used for surface- active agents. UF surface-active agents RT admixtures  ≈ agents detergents hydrophobicity monomolecular films plasticizers  | surveillance GS surveillance . space surveillance (ground based) . space surveillance (spaceborne) RT command and control conical scanning crime detection Earth resources forest fire detection ice mapping ice reporting inspection observation panoramic scanning radar scanning reconnaissance scanning situational awareness target acquisition targetr ecognition targets visual observation  surveillance radar GS radar . airborne surveillance radar . cobra Dane (radar) . multistatic radar RT air traffic control airport surface detection equipment coherent radar continuous wave radar digital radar systems Doppler radar meteorological radar pulse radar radar approach control radar tracking radarscopes                  | Surveyor 3 lunar probe unmanned spacecraft . space probes lunar probes Surveyor lunar probes Surveyor 3 lunar probe RT Atlas Centaur launch vehicle  Surveyor 4 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes Surveyor lunar probe soft landing spacecraft . Surveyor lunar probe unmanned spacecraft . space probes lunar probes Surveyor 4 lunar probe unmanned spacecraft . space probes lunar probes Surveyor 4 lunar probe RT Atlas Centaur launch vehicle  Surveyor 5 lunar probe GS lunar spacecraft . lunar probes Surveyor lunar probes Surveyor lunar probes Surveyor lunar probes Surveyor lunar probe soft landing spacecraft . Surveyor 5 lunar probe unmanned spacecraft . Surveyor 5 lunar probe unmanned spacecraft . space probes Surveyor 5 lunar probe unmanned spacecraft . space probes Surveyor 5 lunar probe unmanned spacecraft . space probes Surveyor 5 lunar probe GS lunar spacecraft . lunar probes Surveyor 6 lunar probe GS lunar spacecraft . lunar probe GS lunar spacecraft . lunar probes Surveyor 6 lunar probe GS lunar spacecraft . lunar probes Surveyor 6 lunar probe GS lunar spacecraft . lunar probes Surveyor 6 lunar probe soft landing spacecraft                             |

|         | . space probes                                   | loran  | suspension systems (vehicles)  |
|---------|--|--|--|
|         | lunar probes                                     | mapping  |  |
|         | Surveyor lunar probes                            | maps   | Susquehanna River Basin (MD-NY-PA)   |
| DT      | Surveyor 6 lunar probe                           | photogrammetry   | GS landforms . structural basins   |
| RT      | Atlas Centaur launch vehicle                     | position (location) reconnaissance   | river basins   |
| Survey  | or 7 lunar probe                                 | soil mapping   | Susquehanna River Basin  |
| GS      | lunar spacecraft                                 | ∞ statistics   | (MD-NY-PA)   |
|         | . lunar probes                                   |  | RT Maryland  |
|         | Surveyor lunar probes                            | survival   | New York   |
|         | Surveyor 7 lunar probe soft landing spacecraft   | RT aircraft survivability  | Pennsylvania<br>rivers   |
|         | . Surveyor lunar probes                          | civil defense<br>closed ecological systems   | streams  |
|         | Surveyor 7 lunar probe                           | desert adaptation  | valleys  |
|         | unmanned spacecraft                              | kits   | ,  |
|         | space probes                                     | life support systems   | sustainer rocket engines   |
|         | lunar probes                                     | lunar shelters   | DEF Rocket engines that maintain the ve-   |
|         | Surveyor lunar probes                            | shelters   | locity of the rocket once it has achieved its  |
| DT      | Surveyor 7 Iunar probe                           | spacecraft survivability   | programmed velocity by use of boosters or other  |
| RT      | Atlas Centaur launch vehicle                     | curvival aguinment   | engines.<br>GS engines   |
| Survey  | or lunar probes                                  | survival equipment RT AEPS   | . rocket engines   |
| GS      |  | aircraft survivability   | sustainer rocket engines   |
|         | . lunar probes                                   | Assured Crew Return Vehicle  | RT booster rocket engines  |
|         | . Surveyor lunar probes                          | consumables (spacecrew supplies)   | ducted rocket engines  |
|         | Surveyor 1 lunar probe                           | emergency life sustaining systems  | electric rocket engines  |
|         | Surveyor 2 lunar probe                           | ∞ equipment  | electrostatic engines  |
|         | Surveyor 3 lunar probe Surveyor 4 lunar probe    | lifeboats  | electrothermal engines   |
|         | Surveyor 5 lunar probe                           | onboard equipment  | hybrid propellant rocket engines<br>internal combustion engines  |
|         | Surveyor 6 lunar probe                           | oxygen supply equipment rafts  | ion engines  |
|         | Surveyor 7 lunar probe                           | iaits  | launch vehicles  |
|         | soft landing spacecraft                          | susceptibility (magnetism)   | liquid air cycle engines   |
|         | Surveyor lunar probes                            | USE magnetic permeability  | liquid propellant rocket engines   |
|         | Surveyor 1 lunar probe                           |  | nuclear engine for rocket vehicles   |
|         | Surveyor 2 lunar probe                           | suspending (hanging)   | nuclear rocket engines   |
|         | Surveyor 3 lunar probe                           | GS suspending (hanging)  | restartable rocket engines   |
|         | Surveyor 4 lunar probe<br>Surveyor 5 lunar probe | . hindlimb suspension  | solid propellant rocket engines<br>stage separation  |
|         | Surveyor 6 lunar probe                           | . magnetic suspension  | ∞ sustaining   |
|         | Surveyor 7 lunar probe                           | RT gyroscope fluids  | turborocket engines  |
|         | unmanned spacecraft                              | mounting<br>suspension systems (vehicles)  | TX-354 engine  |
|         | . space probes                                   | ∞ suspensions  | , and the second |
|         | lunar probes                                     | ,  | ∞ sustaining   |
|         | Surveyor lunar probes                            | suspending (mixing)  | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  |
|         | Surveyor 1 lunar probe                           | GS mixing  | LISTED BELOW)  |
|         | Surveyor 2 lunar probe Surveyor 3 lunar probe    | . suspending (mixing)  | RT life support systems  |
|         | Surveyor 4 lunar probe                           | RT aeration  | supports   |
|         | Surveyor 5 lunar probe                           | agitation  | sustainer rocket engines   |
|         | Surveyor 6 lunar probe                           | colloiding<br>dispersing   | swaging  |
|         | Surveyor 7 lunar probe                           | dispersions  | RT cold working  |
| •       |  | entrainment  | metal working  |
| -       | or project                                       | ferrofluids  | stamping   |
| GS      | programs . lunar programs                        | homogenizing   |  |
|         | Surveyor project                                 | shaking  | swallowing   |
|         | . NASA programs                                  | stirring   | RT drinking<br>eating  |
|         | NASA space programs                              | ∞ suspensions  | ingestion (biology)  |
|         | Surveyor project                                 | suspension systems (vehicles)  | ingoodon (biology)   |
|         | . projects                                       | RT bearings  | swamps   |
|         | Surveyor project                                 | flotation  | USE marshlands   |
|         | . space programs NASA space programs             | levitation   | 0  |
|         | Surveyor project                                 | magnetic levitation vehicles   | Swan bands   |
| RT      | Atlas Centaur launch vehicle                     | riding quality   | GS spectra . spectral bands  |
|         | Centaur project                                  | shock absorbers  | Swan bands   |
|         | lunar landing                                    | springs (elastic)  | RT ∞ bands   |
|         | lunar probes                                     | steering<br>suspending (hanging)   | carbon compounds   |
|         | lunar spacecraft                                 | ∞ suspensions  | chemical bonds   |
|         | soft landing                                     | ∞ systems  | emission spectra   |
|         | soft landing spacecraft                          | toroidal wheels  | molecular spectra  |
| surveys |  | undercarriages   | owerming   |
| UF      | surveying  | vehicle wheels   | swarming<br>RT bees  |
| GS      | surveys  | vehicular tracks   | ∞ motion   |
|         | . geodetic surveys                               | vibration isolators  |  |
|         | geological surveys                               | suspensions  | SWAS (satellite)   |
|         | . Sky Surveys (astronomy)                        | SN (USE OF A MORE SPECIFIC TERM IS   | (added November 2000)  |
| рт      | . wage surveys                                   | RECOMMENDEDCONSULT THE TERMS   | USE Submillimeter Wave Astronomy   |
| RT      | accuracy<br>construction                         | LISTED BELOW) DEF A two-phase system consisting of a   | Satellite  |
| _       | construction<br>cross sections                   | DEF A two-phase system consisting of a finely divided solid dispersed in a solid, liquid, or | swash  |
| •       | data acquisition                                 | gas.   | USE <b>splashing</b>   |
|         | data management                                  | RT Brownian movements  | COL OPIGOMING  |
|         | datum (elevation)                                | dispersions  | SWATH (ship)   |
|         | exploration                                      | ferrofluids  | DEF Small waterplane area twin hull con-   |
|         | general overviews                                | solid suspensions  | cept extension of hydrofoils for improving sea-  |
|         | geometry   | suspending (hanging)   | worthiness and speed. Used for Small Water-  |
|         | layouts  | suspending (mixing)  | plane Area Twin Hull.  |

UF Small Water Plane Area Twin Hull wing loading . . trapezoidal wings GS surface vehicles planforms SWATH (ship) sweep frequency . wing planforms water vehicles electron sweeping ... sweptback wings GS frequencies . . . arrow wings . ships . SWATH (ship) sweep frequency delta wings captured air bubble vehicles RT carrier frequencies . . trapezoidal wings hulls (structures) frequency analyzers RT hypersonic aircraft surface effect ships frequency scanning supersonic aircraft frequency synchronization supersonic airfoils oscilloscopes swept forward wings television transmission variable sweep wings swath width DEF The width of the area covered by an sweepback Swift observatory imaging sensor determined by the geometry of (added August 2005) sweepback angles the instrument. GS geometry DEF A MIDEX (Medium-class Explorer) proagricultural aircraft RT . Euclidean geometry gram satellite launched on November 20, 2004 flight paths . . angles (geometry) for rapid observation of gamma ray bursts and remote sensing . . . sweep angle their afterglows in gamma ray, x ray, ultraviolet, satellite observation .... sweepback and optical wavelengths. . . . . leading edge sweep GS artificial satellites Swaziland RT supersonic airfoils . scientific satellites nations GS . . astronomical satellites Swaziland sweepback angles . Swift observatory Africa USE sweepback observatories Republic of South Africa swelling RT distortion . astronomical observatories . . astronomical satellites sweat . . Swift observatory GS body fluids expansion RT afterglows . sweat growth gamma ray astronomy secretions increasing gamma ray bursts sweat inflating gamma ray sources (astronomy) RT perspiration spreading gamma ray telescopes spaceborne astronomy sweat cooling swept forward wings spaceborne telescopes DEF A process by which a body having a porous surface is cooled by forced flow of cool-GS airfoils spectral counterparts (astronomy) ultraviolet telescopes ant through the surface from the interior. Used for transpiration cooling.

UF transpiration cooling . . swept wings x ray telescopes ... swept forward wings . trapezoidal wings swimming cooling GS planforms RT physical exercise . evaporative cooling . wing planforms physical fitness . sweat cooling . . swept forward wings film cooling . . trapezoidal wings swimming pool reactors liquid cooling sweptback wings GS nuclear reactors surface cooling variable sweep wings . liquid cooled reactors X-29 aircraft . . water cooled reactors sweating . . swimming pool reactors USE perspiration swept wings UF cranked wings RT ∞ reactors diamond wings Sweden swine tapered wings SN UF (EXCLUDES GUINEA PIGS) pigs (swine) GS nations GS airfoils Sweden . wings GS animals Europe . vertebrates . . swept wings JAS-39 aircraft . . mammals . . . swept forward wings Scandinavia . . . . trapezoidal wings . . . swine Swedish space program . . . sweptback wings RT grazing livestock Swedish space program delta wings GS programs swing tail assemblies
GS assemblies . . . trapezoidal wings space programs fixed wings . . European space programs spanloader aircraft . tail assemblies ... Swedish space program . swing tail assemblies unswept wings RT Sweden RT afterbodies wing planforms aircraft parts sweep angle sweptback tail surfaces aircraft structures GS geometry GS assemblies . Euclidean geometry tail assemblies swing wings . . angles (geometry) . sweptback tail surfaces GS airfoils ... sweep angle planforms . wings ... sweepback sweptback tail surfaces . swing wings . . . . leading edge sweep tail surfaces RT aircraft parts aerodynamic stalling . sweptback tail surfaces aircraft structures angle of attack control surfaces wing planforms boundary layer separation hypersonic aircraft wing profiles Mach number rudders stabilizers (fluid dynamics) swingby technique sweep circuits supersonic airfoils gravity assist trajectories GS circuits Comet Nucleus Tour ∞ surfaces sweep circuits T tail surfaces flyby missions RT frequency scanning gravitational effects trapezoidal tail surfaces oscilloscopes interplanetary transfer orbits sampling sweptback wings orbital mechanics GS airfoils planetary orbits sweep effect round trip trajectories . winas spacecraft trajectories RT ∞ effects . . swept wings ... sweptback wings force distribution swirling lift . . . . arrow wings

. . . . delta wings

RT agitation

∞ loading

|                                  | centrifuging   |  | voltage regulators   | RT  | abbreviations  |
|----------------------------------|--|--|--|---|--|
|                                  | dispersing   |  |  |   | alphabets  |
|                                  | foaming  | switchir   | ng elements  |   | character recognition  |
|                                  | mixing   | USE  | switching circuits   | ۰   | ∘ codes  |
| ~                                | separation   |  | <b>3</b> · · · · · ·   |   | coding   |
| ~                                |  | switchi  | ng theory  |   |  |
|                                  | shaking  |  |  |   | color  |
|                                  | stirring   | KI   | Boolean algebra  |   | data processing  |
|                                  |  |  | branching (mathematics)  |   | high level languages   |
|                                  |  |  | communication theory   |   | languages  |
| swirling                         | wakes  |  | commutation  |   | legibility   |
|                                  |  |  | logic design   |   | ∞ mathematics  |
| USE                              | turbulent wakes  |  | network synthesis  | 0   |  |
|                                  |  |  |  |   | message processing   |
|                                  |  |  | packet switching   |   | messages   |
| Swiss s                          | space program  |  | sequencing   |   | mnemonics  |
| GS                               | programs   | 0  | theories   |   | nomenclatures  |
| 00                               | . •  |  | topology   |   | perception   |
|                                  | . space programs   |  | -1 37  |   | reading  |
|                                  | European space programs  | Switzer  | land   |   |  |
|                                  | Swiss space program  |  | nations  |   | semantics  |
| RT                               | Switzerland  | GS   |  | ٥   | ∘ signals  |
|                                  |  |  | . Switzerland  |   | units of measurement   |
|                                  |  | RT   | Alps Mountains (Europe)  |   | visibility   |
|                                  |  |  | Europe   |   | ,  |
| switche                          |  |  | Swiss space program  | evmmo   | trical bodies  |
| GS                               | switches   |  | omos spass program   | •   |  |
|                                  | . capacitance switches   | swivels  |  | GS  | symmetrical bodies   |
|                                  | . electric relays  |  |  |   | . axisymmetric bodies  |
|                                  | . electric switches  | RT   | bearings   |   | power law bodies   |
|                                  | cryotrons  |  | gimbals  |   | bodies of revolution   |
|                                  |  |  | hinges   |   | conical bodies   |
|                                  | stepping switches  |  | hooks  |   | slender cones  |
|                                  | thermostats  |  | joints (junctions)   |   |  |
|                                  | vacuum arc switches  |  | pivots   |   | cylindrical bodies   |
|                                  | . pressure switches  |  | pivots   |   | rotating cylinders   |
|                                  | . switching circuits   |  |  |   | parabolic bodies   |
|                                  |  | syenite  |  |   | power law bodies   |
|                                  | fluid switching elements   | GS   | rocks  |   | spheres  |
|                                  | . trigatrons   |  | . igneous rocks  |   | celestial sphere   |
| RT                               | circuit breakers   |  | syenite  |   | concentric spheres   |
|                                  | dropouts   | RT   | soils  |   | ·  |
|                                  | echo suppressors   | 111  |  |   | falling spheres  |
|                                  | electric connectors  |  | trachyte   |   | Poincare spheres   |
|                                  |  |  |  |   | rotating spheres   |
|                                  | electric contacts  | syllable   | es   |   | toruses  |
|                                  | interruption   | RT   | messages   |   | . ellipsoids   |
|                                  | selectors  |  | psycholinguistics  |   | •  |
|                                  | switching  |  | semantics  |   | lenticular bodies  |
|                                  | ŭ  |  |  |   | . streamlined bodies   |
|                                  |  |  | signal transmission  |   | fairings   |
|                                  |  |  |  | RT  | avec of retation   |
|                                  |  |  |  | KI  | axes or rotation   |
| switchi                          | ng   | symbio   | sis  | KI  | axes of rotation   |
| switchin<br>GS                   | ng<br>switching  |  |  |   | blunt bodies   |
|                                  | switching  | DEF  | The intimate living together of two or-  |   | blunt bodies   |
|                                  | switching . beam switching   | DEF<br>ganisms   | The intimate living together of two ors of different species, for mutual benefit.  |   | blunt bodies<br>∘ bodies<br>cones  |
|                                  | switching . beam switching . magnetic switching  | DEF  | The intimate living together of two or-<br>s of different species, for mutual benefit.<br>ecology  |   | blunt bodies     bodies  cones finned bodies   |
|                                  | switching . beam switching . magnetic switching . microwave switching  | DEF<br>ganisms   | The intimate living together of two ors of different species, for mutual benefit.  |   | blunt bodies<br>∘ bodies<br>cones  |
|                                  | switching . beam switching . magnetic switching . microwave switching . optical switching  | DEF<br>ganisms   | The intimate living together of two or-<br>s of different species, for mutual benefit.<br>ecology  |   | blunt bodies     bodies  cones finned bodies flared bodies   |
|                                  | switching . beam switching . magnetic switching . microwave switching  | DEF<br>ganisms<br>RT                                     | The intimate living together of two or-<br>s of different species, for mutual benefit.<br>ecology  |   | blunt bodies  ⇒ bodies cones finned bodies flared bodies geoids  |
|                                  | switching . beam switching . magnetic switching . microwave switching . optical switching  | DEF<br>ganisms<br>RT                                     | The intimate living together of two or-<br>s of different species, for mutual benefit.<br>ecology<br>lichens   |   | blunt bodies  o bodies cones finned bodies flared bodies geoids ogives   |
| GS                               | switching beam switching magnetic switching microwave switching optical switching packet switching code division multiple access   | DEF<br>ganisms<br>RT                                     | The intimate living together of two or-<br>s of different species, for mutual benefit.<br>ecology<br>lichens<br>tic stars<br>celestial bodies  |   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies   |
| GS                               | switching beam switching magnetic switching oricrowave switching optical switching packet switching code division multiple access interruption   | DEF<br>ganisms<br>RT                                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars  |   | blunt bodies  o bodies cones finned bodies flared bodies geoids ogives   |
| GS                               | switching . beam switching . magnetic switching . microwave switching . optical switching . packet switching code division multiple access interruption sequencing   | DEF<br>ganisms<br>RT                                     | The intimate living together of two or- s of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars . double stars   |   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies   |
| GS                               | switching beam switching magnetic switching optical switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes   | DEF<br>ganisms<br>RT                                     | The intimate living together of two or- s of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars double stars binary stars  |   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory   |
| GS                               | switching beam switching magnetic switching microwave switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches  | DEF<br>ganisms<br>RT                                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars . double stars binary stars symbiotic stars  | symme   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory   |
| GS                               | switching beam switching magnetic switching optical switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes   | DEF<br>ganisms<br>RT                                     | The intimate living together of two or- s of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars double stars binary stars  | <b>symme</b><br>UF  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory ttry axisymmetry  |
| GS                               | switching beam switching magnetic switching microwave switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches  | DEF<br>ganisms<br>RT                                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars double stars binary stars symbiotic stars peculiar stars   | symme   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry symmetry  |
| GS                               | switching beam switching magnetic switching microwave switching optical switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches  | DEF<br>ganisms<br>RT                                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars double stars binary stars symbiotic stars peculiar stars symbiotic stars symbiotic stars   | <b>symme</b><br>UF  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry   |
| GS<br>RT                         | switching beam switching magnetic switching microwave switching optical switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access   | DEF<br>ganisms<br>RT                                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens   tic stars celestial bodies . stars . double stars binary stars symbiotic stars peculiar stars symbiotic stars symbiotic stars  | <b>symme</b><br>UF  | blunt bodies  ⇒ bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry . broken symmetry . CP violation   |
| GS<br>RT<br>switchin             | switching beam switching magnetic switching optical switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens   **tic stars** celestial bodies* . stars* . double stars* binary stars* symbiotic stars* . peculiar stars* . symbiotic stars . variable stars . variable stars symbiotic stars symbiotic stars  | <b>symme</b><br>UF  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry broken symmetry . CP violation . chirality  |
| GS<br>RT                         | switching beam switching magnetic switching optical switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access   | DEF<br>ganisms<br>RT                                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars . double stars . binary stars . symbiotic stars . peculiar stars . variable stars . variable stars . symbiotic stars absorption spectra  | <b>symme</b><br>UF  | blunt bodies  bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry symmetry . broken symmetry . CP violation  |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching microwave switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  *tic stars celestial bodies . stars . double stars . binary stars . symbiotic stars . peculiar stars . variable stars . variable stars . symbiotic stars absorption spectra eclipsing binary stars  | <b>symme</b><br>UF  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry broken symmetry . CP violation . chirality  |
| GS<br>RT<br>switchin             | switching beam switching magnetic switching optical switching optical switching optical switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  tic stars celestial bodies . stars . double stars . binary stars . symbiotic stars . peculiar stars . variable stars . variable stars . symbiotic stars absorption spectra  | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry  |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching microwave switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  *tic stars celestial bodies . stars . double stars . binary stars . symbiotic stars . peculiar stars . variable stars . variable stars . symbiotic stars absorption spectra eclipsing binary stars  | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry supersymmetry antisymmetry asymmetry asymmetry  |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching optical switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits switching circuits   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens stic stars celestial bodies . stars double stars binary stars symbiotic stars peculiar stars symbiotic stars variable stars variable stars absorption spectra eclipsing binary stars emission spectra  | <b>symme</b><br>UF<br>GS  | blunt bodies  bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry . CP violation . chirality . supersymmetry ansiymmetry asymmetry supersymmetry antisymmetry antisymmetry antisymmetry antisymmetry antisymmetry congruences  |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements  | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars* celestial bodies . stars double stars binary stars symbiotic stars peculiar stars variable stars variable stars symbiotic stars edipsing binary stars emission spectra flare stars M stars   | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry congruences continuity (mathematics)   |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits switching circuits fill switching elements switches   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars*  celestial bodies  . stars  . double stars  . binary stars  . symbiotic stars  . peculiar stars  . variable stars  . variable stars  . symbiotic stars  double stars  symbiotic stars  mission spectra eclipsing binary stars emission spectra flare stars  M stars novae  | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality supersymmetry antisymmetry asymmetry asymmetry antisymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity   |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching optical switching optical switching optical switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switching circuits switching circuits switching circuits  | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens   *tic stars celestial bodies . stars . double stars . binary stars symbiotic stars . peculiar stars . variable stars . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes   | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits switching circuits switching circuits switching circuits switching circuits fluid switching elements   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  *tic stars celestial bodies . stars . double stars . binary stars symbiotic stars . peculiar stars . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion  | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality supersymmetry antisymmetry asymmetry asymmetry antisymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity   |
| GS<br>RT<br>switchin<br>UF       | switching beam switching magnetic switching optical switching optical switching optical switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switching circuits switching circuits switching circuits  | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens   *tic stars celestial bodies . stars . double stars . binary stars symbiotic stars . peculiar stars . variable stars . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes   | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits switching circuits switching circuits switching circuits switching circuits fluid switching elements   | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  *tic stars celestial bodies . stars . double stars . binary stars symbiotic stars . peculiar stars . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion  | <b>symme</b><br>UF<br>GS  | blunt bodies  bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits switching circuits switching circuits switching circuits switching circuits switching elements switching circuits switching circuits ARPA computer network  | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . symbiotic stars* . peculiar stars* . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra   | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry asymmetry asymmetry antisymmetry antisymmetry antisymmetry asymmetry antisymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry antisymmetry antisymme |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices  | DEF<br>ganisms<br>RT<br><b>symbio</b><br>GS              | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies* . stars* binary stars* symbiotic stars* peculiar stars* symbiotic stars* variable stars symbiotic stars eclipsing binary stars emission spectra eclipsing binary stars emission spectra flare stars  M stars novae stellar envelopes stellar mass accretion stellar oscillations  | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry CP violation chirality supersymmetry antisymmetry antisymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switching circuits fluid switching elements switches switches switches switches switches switches switches switches switches cascide devices circuit breakers  | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies . stars . double stars . binary stars symbiotic stars . peculiar stars symbiotic stars . variable stars symbiotic stars absorption spectra eclipsing binary stars emission spectra flare stars M stars movae stellar envelopes stellar mass accretion stellar spectra stellar spectra stellar spectra stellar spectra stellar spectra stellar temperature  | <b>symme</b><br>UF<br>GS  | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry asymmetry asymmetry antisymmetry antisymmetry antisymmetry asymmetry antisymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry antisymmetry antisymme |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switching switching circuits fluid switching elements switching circuits switching circuits switching circuits capacitance switches cascode devices circuit breakers current regulators  | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars* novae** stellar envelopes** stellar ensection stellar spectra stellar spectra stellar temperature*  tic programming*   | symme<br>UF<br>GS<br>RT   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry symmetry . Droken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation   | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . symbiotic stars* . peculiar stars* . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature  **tic programming** computer programming  | symme<br>UF<br>GS<br>RT   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry asymmetry asymmetry antisymmetry antisymmetry antisymmetry asymmetry antisymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry antisymmetry asymmetry asymmetry asymmetry antisymmetry asymmetry  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  agricuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers  | DEF ganisms RT symbio GS                                 | The intimate living together of two orsof of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature    ic programming computer programming symbolic programming   computer p | symme<br>UF<br>GS<br>RT   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry symmetry . Droken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation   | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . symbiotic stars* . peculiar stars* . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature  **tic programming** computer programming  | symme<br>UF<br>GS<br>RT   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry asymmetry asymmetry antisymmetry antisymmetry antisymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry asymmetry antisymmetry asymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry asymmetry asymmetry asymmetry antisymmetry asymmetry antisymmetry asymmetry asym |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  agricuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers  | DEF ganisms RT symbio GS                                 | The intimate living together of two orsof of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature    ic programming computer programming symbolic programming   computer p | symme<br>GS<br>RT   | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spender bodie |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements scricuits switching circuits circ | DEF ganisms RT symbio GS                                 | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature    ic programming computer programming coding computer assisted instruction  | symme<br>UF<br>GS<br>RT<br>symme<br>USE<br>sympat                           | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry symmetry broken symmetry . CP violation chirality supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes  try breaking broken symmetry  thetic nervous system  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  In circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits capacitance switches cascode devices circuit breakers current regulators duplexers electric relays electric switches gates (circuits)   | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies* . stars* binary stars* binary stars* symbiotic stars* variable stars* variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature  **tic programming* computer programming coding computer assisted instruction context free languages  | symme<br>UF<br>GS<br>RT<br>symme<br>USE<br>sympat                           | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry asymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes  try breaking broken symmetry thetic nervous system anatomy  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two orsof different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars** binary stars* symbiotic stars* peculiar stars* symbiotic stars* variable stars* symbiotic stars edipsing binary stars emission spectra flare stars  M stars* novae** stellar envelopes* stellar mass accretion stellar oscillations stellar spectra stellar temperature  **tic programming** computer programming** coding** computer assisted instruction context free languages* language programming   | symme<br>UF<br>GS<br>RT<br>symme<br>USE<br>sympat                           | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry enantomy . nervous system anatomy . nervous system   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching optical switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access ime division multiple access ime division multiple access ing circuits electronic switches switching elements circuits . fluid switching elements switching circuits . fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers electric relays electric switches gates (circuits) latch-up logic circuits   | DEF<br>ganisms<br>RT<br>symbio<br>GS                     | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies* . stars* binary stars* binary stars* symbiotic stars* variable stars* variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature  **tic programming* computer programming coding computer assisted instruction context free languages  | symme<br>UF<br>GS<br>RT<br>symme<br>USE<br>sympat                           | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry CP violation chirality supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry thetic nervous system anatomy nervous system autonomic nervous system   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits)  | symbol<br>GS<br>symbol<br>GS<br>RT                       | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars eclipsing binary stars enission spectra eclipsing binary stars emission spectra flare stars  M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature  **tic programming** computer programming computer programming coding computer assisted instruction context free languages language programming mnemonics*   | symme<br>UF<br>GS<br>RT<br>USE<br>sympat<br>GS                              | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry hetic nervous system autonomic nervous system sympathetic nervous system   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  Ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits) microwave switching  | DEF ganisms RT  symbio GS  RT  symbol GS  RT  symbol GS  | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars* novae* stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature    ic programming computer programming computer programming computer assisted instruction context free languages language programming mnemonics*   is   | symme<br>UF<br>GS<br>RT<br>USE<br>sympat<br>GS                              | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spender bodies spinning unguided rocket trajectory try axisymmetry symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry thetic nervous system anatomy . nervous system autonomic nervous system   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits)  | symbol<br>GS<br>symbol<br>GS<br>RT                       | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars eclipsing binary stars enission spectra eclipsing binary stars emission spectra flare stars  M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature  **tic programming** computer programming computer programming coding computer assisted instruction context free languages language programming mnemonics*   | symme<br>UF<br>GS<br>RT<br>USE<br>sympat<br>GS                              | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry hetic nervous system autonomic nervous system sympathetic nervous system   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching sequencing packet switching sequencing step recovery diodes packet switches packet switches packet switches packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching elements packet switching packet switchi | DEF ganisms RT  symbio GS  RT  symbol GS  RT  symbol GS  | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* binary stars* binary stars* symbiotic stars* peculiar stars* variable stars variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature  **tic programming** computer programming computer programming computer assisted instruction context free languages language programming mnemonics  **s characters*   | symme<br>UF<br>GS<br>RT<br>Symme<br>USE<br>sympat<br>GS                     | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry antisymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry enantomy . nervous system autonomic nervous system sympathetic nervous system sympathetic nervous system sympathetic nervous system  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching optical switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access ing circuits electronic switches switching elements circuits switching elements circuits fluid switching elements switching circuits fluid switching elements switching circuits fluid switching elements switches switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits) microwave switching multivibrators optical bistability   | DEF ganisms RT  symbio GS  RT  symbol GS  RT  symbol GS  | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars absorption spectra eclipsing binary stars emission spectra flare stars M stars novae stellar envelopes stellar mass accretion stellar spectra stellar temperature  **tic programming** computer programming coding computer assisted instruction context free languages language programming mnemonics  **s characters letters (symbols)  | symme<br>UF<br>GS<br>RT<br>Symmet<br>USE<br>sympat<br>GS                    | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry CP violation chirality supersymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry hetic nervous system anatomy nervous system anatomy systems bromimetics   |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switching circuits fluid switching elements switching circuits fluid switching elements ARPA computer network capacitance switches cascode devices circuit breakers current regulators duplex operation duplexers electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits) microwave switching multivibrators optical bistability optical switching  | symbol<br>GS<br>symbol<br>GS<br>RT<br>symbol<br>GS<br>RT | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies** . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars* . variable stars eclipsing binary stars emission spectra eclipsing binary stars emission spectra flare stars  M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature  **tic programming** computer programming computer programming coding computer assisted instruction context free languages language programming mnemonics  **s characters letters (symbols) signs (symbols)  | symme<br>UF<br>GS<br>RT<br>Symmet<br>USE<br>sympat<br>GS                    | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry antisymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry enantomy . nervous system autonomic nervous system sympathetic nervous system sympathetic nervous system sympathetic nervous system  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements accode devices circuit breakers current regulators duplex operation duplexers electric relays electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits) microwave switching multivibrators optical switching packet switching   | DEF ganisms RT  symbio GS  RT  symbol GS  RT             | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies* . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars . variable stars . symbiotic stars absorption spectra eclipsing binary stars emission spectra flare stars  M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature    ic programming computer programming computer programming computer programming context free languages language programming mnemonics   s   characters   letters (symbols) signs (symbols) symbols   | symme<br>UF<br>GS<br>RT<br>Sympat<br>GS<br>RT •<br>sympati<br>USE           | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes  try breaking broken symmetry thetic nervous system anatomy nervous system . autonomic nervous system systems bromimetics adrenergics  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching packet switching sequencing packet switches packet switches packet switches packet switching elements packet switching elements packet switching elements packet switching elements packet switching  | symbol<br>GS<br>symbol<br>GS<br>RT<br>symbol<br>GS<br>RT | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies* . stars* binary stars* binary stars* symbiotic stars* variable stars* variable stars* absorption spectra eclipsing binary stars emission spectra flare stars M stars* novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature  **tic programming* computer programming coding computer programming computer assisted instruction context free languages language programming mnemonics  **s characters letters (symbols) signs (symbols) symbols . alphanumeric characters  | symme<br>UF<br>GS<br>RT<br>Sympat<br>GS<br>RT •<br>sympati<br>USE<br>Sympho | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry antisymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes try breaking broken symmetry enantomy . nervous system autonomic nervous system sympathetic nervous system bromimetics adrenergics onie satellites  |
| GS<br>RT<br>switchin<br>UF<br>GS | switching beam switching magnetic switching optical switching packet switching packet switching packet switching packet switching packet switching packet switching code division multiple access interruption sequencing step recovery diodes switches time division multiple access  ing circuits electronic switches switching elements circuits switching circuits fluid switching elements switches switching circuits fluid switching elements switches switching circuits fluid switching elements accode devices circuit breakers current regulators duplex operation duplexers electric relays electric relays electric switches gates (circuits) latch-up logic circuits matrices (circuits) microwave switching multivibrators optical switching packet switching   | symbol<br>GS<br>symbol<br>GS<br>RT<br>symbol<br>GS<br>RT | The intimate living together of two ors of different species, for mutual benefit. ecology lichens  **tic stars** celestial bodies* . stars* . double stars* . binary stars* . peculiar stars* . symbiotic stars* . variable stars . variable stars . symbiotic stars absorption spectra eclipsing binary stars emission spectra flare stars  M stars novae stellar envelopes stellar mass accretion stellar oscillations stellar spectra stellar temperature    ic programming computer programming computer programming computer programming context free languages language programming mnemonics   s   characters   letters (symbols) signs (symbols) symbols   | symme<br>UF<br>GS<br>RT<br>Sympat<br>GS<br>RT •<br>sympati<br>USE           | blunt bodies bodies cones finned bodies flared bodies geoids ogives slender bodies spinning unguided rocket trajectory  try axisymmetry broken symmetry . CP violation . chirality . supersymmetry antisymmetry antisymmetry antisymmetry asymmetry congruences continuity (mathematics) eccentricity enantiomers geometry grand unified theory isotropism quantiles shapes  try breaking broken symmetry thetic nervous system anatomy nervous system . autonomic nervous system systems bromimetics adrenergics  |

. Symphonie satellites . . Synchronous Communications ... GOES 1 Satellite Proj GOES 2 broadcasting GOES 3 . space programs European space programs . . NASA space programs GOES 4 ... Synchronous Communications French satellites ... GOES 5 international cooperation Satellite Proj GOES 6 radio transmission communication satellites ... GOES 7 satellite television twenty-four hour orbits ... GOES 8 synchronous satellites ... GOES 9 synchronous detectors telephony ... GOES 10 USE correlators ... GOES 13 symposia . . Miranda satellite USE conferences Synchronous Earth Observatory satellite . . SIRIO satellite SEOS StormSat satellite symptomology artificial satellites . . Synchronous Earth Observatory medical science GS . meteorological satellites satellite . . . SMS 1 symptomology .. Synchronous Earth Observatory diseases satellite ... SMS 2 signs and symptoms . . Synchronous Meteorological ... SMS 2 Satellite symptoms ... SMS 1 . synchronous satellites USE signs and symptoms .. Synchronous Earth Observatory ... SMS 2 satellite . . SYNCOM satellites synapses . . . SMS 1 . . . Early Bird satellites acetylcholine ... SMS 2 . . . SYNCOM 1 satellite . . . SYNCOM 2 satellite nerves early warning systems Landsat satellites nervous system SYNCOM 3 satellite neuromuscular transmission NASA programs SYNCOM 4 satellite neurons programs . . TD satellites neurotransmitters satellite observation .. TD-1 satellite syncoders SEASAT satellites Synchronous Meteorological Satellite active satellites Arcomsat synchrocyclotrons technology utilization Canadian space program GS particle accelerators communication satellites cyclic accelerators Synchronous Meteorological Satellite Communications Technology Satellite . . synchrocyclotrons UF SMS military spacecraft . cyclotrons GS artificial satellites navigation satellites . synchrocyclotrons . meteorological satellites passive satellites bevatron . . Synchronous Meteorological Refsat synchrotrons Satellite stationary orbits ... SMS 1 Symphonie satellites synchronism ... SMS 2 synchronous platforms The relationship between two or more . synchronous satellites twenty-four hour orbits periodic quantities of the same frequency when . . Synchronous Meteorological the phase difference between them is zero or Satellite synchrophasing constant at a predetermined value. Used for ... SMS 1 RT aircraft noise beat and synchronization. .. SMS 2 noise reduction UF beat communication satellites propeller blades synchronization Synchronous Earth Observatory synchronism synchronism satellite . bit synchronization synchrophasotrons . frequency synchronization synchronous motors GS particle accelerators . time synchronization GS electromechanical devices synchrophasotrons coincidence circuits . electric motors RT ∞ accelerators Dining Philosophers Problem . synchronous motors synchrotrons phase detectors motors stroboscopes . electric motors synchroscopes synchronizers . synchronous motors GS circuits synchrophasing asynchronous motors . phase detectors time induction motors . synchroscopes time measurement correlators synchronous platforms measuring instruments synchronization DEF Space platforms whose rotation is synoscilloscopes USE synchronism chronized with that of Earth. Used for geostasynchronized oscillators tionary platforms. synchronized oscillators geostationary platforms synchrotron radiation oscillators GS GS space platforms electromagnetic radiation synchronized oscillators synchronous platforms . nonthermal radiation frequency synchronization phase locked systems communication satellites . . synchrotron radiation geosynchronous orbits . polarized electromagnetic radiation synchroscopes . synchrotron radiation ∞ platforms synchronous satellites polarized radiation synchronizers . polarized electromagnetic radiation heliostats synchronous satellites . synchrotron radiation pulse radar DEF Equatorial west-to-east satellites orbitbremsstrahlung servomotors ing the Earth at an altitude of approximately extraterrestrial radiation synchronism 35,900 kilometers, at which they make one ∞ radiation revolution in 24 hours, synchronous with the radiation protection Synchronous Communication Satellites Earth's rotation. Used for geostationary satelsynchrotrons USE SYNCOM satellites lites x rays geostationary satellites Synchronous Communications Satellite artificial satellites synchrotrons Proj DEF Devices for accelerating particles, or-. synchronous satellites ŚN (SYNCHRONOUS COMMUNICATIONS . . AEROS satellite dinarily electrons, in a circular orbit in an in-SATELLITE PROJECT) . . Aerosat satellites creasing magnetic field by means of an alternatprograms . NASA programs . . Anik satellites ing field applied in a synchronism with the orbital

. . . Anik 1

. . . Anik 2

. . . Anik 3

. . GOES satellites

motion.

GS

particle accelerators

. cyclic accelerators

. . synchrotrons

. . NASA space programs

. projects

. . . Synchronous Communications

Satellite Proj

|              | bevatron  | Vernier engines                                  | liquid phases  |
|--------------|---|--|--|
|              | storage rings (particle   | SYNCOM apogee engines                            | metals   |
| RT           | accelerators)   | . torpedo engines                                | phase transformations  |
| KI           | betatrons<br>cyclotrons   | Vernier engines<br>SYNCOM apogee engines         | solid phases   |
|              | electron accelerators   | o i Noom apogee engines                          | synthane   |
|              | ion accelerators  | SYNCOM satellites                                | UF synthetic methane   |
|              | microtrons  | UF Synchronous Communication                     | GS fuels   |
|              | synchrocyclotrons   | Satellites                                       | . chemical fuels<br>hydrocarbon fuels  |
|              | synchrophasotrons<br>synchrotron radiation  | GS artificial satellites . active satellites     | synthane   |
|              | Synomotion radiation  | SYNCOM satellites                                | synthetic fuels  |
| synclin      |   | Early Bird satellites                            | synthane   |
| UF           | synclinoria   | SYNCOM 1 satellite                               | RT automobile fuels  |
| RT           | anticlines  | SYNCOM 2 satellite<br>SYNCOM 3 satellite         | carbon dioxide<br>carbon monoxide  |
|              | domes (geology)<br>geological faults  | SYNCOM 3 satellite                               | coal   |
|              | geosynclines  | . communication satellites                       | coal gasification  |
| ~            | layers  | SYNCOM satellites                                | gasification   |
|              | strata  | Early Bird satellites                            | hydrogen   |
|              | stratification  | SYNCOM 1 satellite<br>SYNCOM 2 satellite         | lignite<br>methane   |
|              | stratigraphy  | SYNCOM 2 satellite                               | meulane  |
| synclino     | ria   | SYNCOM 4 satellite                               | ∞ synthesis  |
| USE          | synclines   | . synchronous satellites                         | SN (USE OF A MORE SPECIFIC TERM IS   |
|              |   | SYNCOM satellites                                | RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)                                  |
| syncod<br>RT | ers<br>bionics  | Early Bird satellites                            | RT biosynthesis  |
| 17.1         | neurons   | SYNCOM 1 satellite<br>SYNCOM 2 satellite         | chemical reactions   |
|              | synapses  | SYNCOM 3 satellite                               | decision theory<br>∞ design  |
|              |   | SYNCOM 4 satellite                               | network synthesis  |
|              | M 1 satellite   | RT Thor Delta launch vehicle                     | nuclear fusion   |
| GS           | artificial satellites . active satellites   | ovnoone.   | operations research  |
|              | SYNCOM satellites   | syncope<br>UF fainting                           | plasma jet synthesis   |
|              | SYNCOM 1 satellite  | GS syncope                                       | synthesis (chemistry)<br>synthetic fuels                                       |
|              | . communication satellites  | . blackout (physiology)                          | systems engineering  |
|              | SYNCOM 4 contailing   | blackout prevention                              |  |
|              | SYNCOM 1 satellite . synchronous satellites   | RT unconsciousness                               | synthesis (chemistry)  |
|              | SYNCOM satellites   | syndromes  | DEF The application of chemical reactions to obtain desired chemical products. |
|              | SYNCOM 1 satellite  | USE signs and symptoms                           | GS synthesis (chemistry)   |
| RT           | Delta launch vehicle  |  | . polymerization   |
| SVNCO        | M 2 satellite   | syngas   | copolymerization   |
| GS           | artificial satellites   | (added January 2002)<br>USE <b>synthesis gas</b> | dimerization   |
| 00           | . active satellites   | OOL Synthesis gas                                | . electrochemical synthesis<br>RT addition resins                              |
|              | SYNCOM satellites   | synoptic measurement                             | chemical reactions   |
|              | SYNCOM 2 satellite  | RT ∞ measurement                                 | ∞ chemistry  |
|              | . communication satellites  | nephanalysis                                     | cycloaddition  |
|              | SYNCOM satellites SYNCOM 2 satellite  | synoptic meteorology                             | Fischer-Tropsch process  |
|              | . synchronous satellites  | DEF The study and analysis of we                 | operations research  |
|              | SYNCOM satellites   | information gathered at the same time.           | reaction intermediates self assembly   |
|              | SYNCOM 2 satellite  | GS meteorology                                   | ∞ synthesis  |
| RT           | Delta launch vehicle  | . synoptic meteorology                           | synthesis gas  |
| SYNCO        | M 3 satellite   | RT air masses anticyclones                       | synthetic fibers   |
| GS           | artificial satellites   | cold fronts                                      | synthetic fuels<br>synthetic resins  |
|              | . active satellites   | cyclones   | synthetic rubbers  |
|              | SYNCOM satellites   | fronts (meteorology)                             | systems engineering  |
|              | SYNCOM 3 satellite  | meteorological charts                            |  |
|              | . communication satellites SYNCOM satellites  | nephanalysis<br>teleconnections (meteorology)    | synthesis gas  |
|              | SYNCOM 3 satellite  | warm fronts                                      | (added January 2002) DEF A mixture of gases produced as feed-                  |
|              | . synchronous satellites  | weather forecasting                              | stock for the synthesis of chemical compounds,                                 |
|              | SYNCOM satellites   |  | for example, hydrogen and carbon monoxide                                      |
| RT           | SYNCOM 3 satellite Delta launch vehicle   | syntax GS linguistics                            | used as the starting material for the production                               |
| IXI          | Della lauriori verilicie  | . syntax   | of ammonia derivatives, methanol, and hydro-                                   |
| SYNCO        | M 4 satellite   | RT format  | carbons.<br>UF s <i>yng</i> as   |
| DEF          | A geosynchronous communications   | grammars   | GS gases   |
|              | that was deployed on Space Shuttle  | ∞ interpretation                                 | . synthesis gas  |
| GS STS 51    | A in November 1984.<br>artificial satellites  | languages  | RT catalysts   |
| GS           | . active satellites   | natural language processing<br>orthography       | coal derived gases   |
|              | SYNCOM satellites   | parsing algorithms                               | coal gasification<br>fuel production   |
|              | SYNCOM 4 satellite  | psycholinguistics                                | synthesis (chemistry)  |
|              | . communication satellites  | semantics  | synthetic fuels  |
|              | SYNCOM satellites   | sentences  | and a street   |
|              | SYNCOM 4 satellite . synchronous satellites   | speech   | synthesizers  RT chemical reactors   |
|              | SYNCOM satellites   | syntectic alloys                                 | frequency synthesizers   |
|              | SYNCOM 4 satellite  | DEF Metallic composite materials ch              | arac-  |
| 0)/1100      | M annual | terized by a reversible convertibility of their  |  |
|              | M apogee engines  | phases into two liquid phases by the applic      |  |
| GS           | engines . rocket engines  | of heat.<br>GS alloys                            | all-weather, high resolution imagery. Used for imaging radar.                  |
|              | solid propellant rocket engines   | . syntectic alloys                               | GS radar   |
|              | SYNCOM apogee engines   | RT eutectics                                     | . synthetic aperture radar   |
|              |   |  |  |

|                                | Shuttle Imaging Radar   | synthesis (chemistry)  | solithanes   |
|--------------------------------|---|--|--|
| DT                             | side-looking radar  | synthesis gas  | synthesis (chemistry)  |
| RT                             | airborne radar<br>Earthnet  | synthetic metals   | synthetic vision   |
|                                | Envisat-1 satellite   | DEF Materials which do not occur in nature   | USE enhanced vision  |
|                                | ground penetrating radar  | but have the appearance and physical properties of true metals.  | syntony  |
|                                | imaging radar<br>Magellan spacecraft (NASA)   | RT crystal lattices  | DEF The situation of two or more oscillating   |
|                                | microwave imagery   | dendrimers   | circuits having the same resonant frequency.   |
|                                | microwave sensors   | graphite<br>organometallic compounds   | RT frequency synchronization oscillations  |
|                                | radar equipment<br>Radarsat   | organometame compounds   | resonance  |
|                                | satellite-borne radar   | synthetic methane  | aumhilia   |
|                                | surveillance radar<br>synthetic apertures   | USE synthane   | syphilis<br>GS diseases  |
|                                | Venus orbiting imaging radar  | synthetic resins   | . infectious diseases  |
|                                | (spacecraft)  | GS plastics . synthetic resins   | bacterial diseases   |
| synthet                        | ic apertures  | addition resins  | syphilis   |
| DEF                            | In radar technology, the simulations of   | acrylic resins   | Syria  |
|                                | ntennas by correcting the phase and   | vinyl copolymers<br>polyester resins   | GS nations<br>. <b>Syria</b>   |
|                                | de of the return signals from smaller s, permitting the use of lower frequen-   | polyether resins   | RT Asia  |
| cies for                       | airborne radars.  | PEEK   | ainmaa   |
| GS                             | openings<br>. apertures   | polymethyl methacrylate thermoplastic resins   | syringes GS laboratory equipment   |
|                                | synthetic apertures   | PEEK   | syringes   |
| RT                             | imaging techniques  | quinoxalines   | medical equipment  |
|                                | synthetic aperture radar  | thermoplastic films<br>thermosetting resins  | . <b>syringes</b><br>RT bulbs  |
| synthet                        | ic arrays   | epoxy resins   | ∞ equipment  |
| GS                             | arrays  | phenolic epoxy resins<br>furan resins  | fluid flow<br>pipes (tubes)  |
| RT                             | . synthetic arrays antenna radiation patterns   | polyamide resins   | transfusion  |
|                                | apertures   | Kevlar (trademark)   | 0 / /0   |
|                                | distribution (property)   | Nylon (trademark)<br>phenolic resins   | System 10 computer USE PDP 10 computer   |
| 000                            | patterns<br>Shuttle Imaging Radar   | micarta  | COL 151 10 compator  |
|                                |   | phenolic epoxy resins  | system effectiveness   |
|                                | ic fibers<br>fibers   | resins<br>. <b>synthetic resins</b>  | GS effectiveness . system effectiveness  |
| 00                             | . synthetic fibers  | addition resins  | RT modulation transfer function  |
|                                | aramid fibers   | acrylic resins   | optical transfer function  |
|                                | Kevlar (trademark) ceramic fibers   | vinyl copolymers<br>polyester resins   | reliability<br>reliability engineering   |
|                                | Dacron (trademark)  | polyether resins   | ∞ systems  |
|                                | Fortisan (trademark)  | PEEK   | systems engineering<br>systems health monitoring   |
|                                | glass fibers Nylon (trademark)  | polymethyl methacrylate thermoplastic resins   | systems integration  |
|                                | rayon   | PEEK   | -  |
| RT                             | Vycor addition resins   | quinoxalines<br>thermoplastic films  | system failures<br>GS failure  |
| IXI                            | flame retardants  | thermosetting resins   | . system failures  |
|                                | Kevlar (trademark)  | epoxy resins   | RT ∞ breakdown   |
|                                | polyacrylonitrile<br>polybenzimidazole  | phenolic epoxy resins furan resins   | deterioration<br>downtime  |
|                                | polyesters  | polyamide resins   | fatigue (materials)  |
|                                | reinforcing fibers  | Kevlar (trademark)   | fault detection<br>malfunctions  |
|                                | synthesis (chemistry) wet spinning  | Nylon (trademark)<br>phenolic resins   | short circuits   |
|                                |   | micarta  | structural failure   |
| synthet<br>DEF                 |   | phenolic epoxy resins  |  |
|                                | Mixture of roughage vitamine minor  | PT polyothylonos   | structural strain  |
| ais, cic.,                     | Mixture of roughage, vitamins, miner-<br>, closely approximating natural foods in   | RT polyethylenes<br>∞ polymers   | structural strain<br>∞ systems<br>wear   |
| appeara                        | , closely approximating natural foods in nce, taste, and nutrition.   | ∞ polymers<br>polypropylene  | ∞ systems<br>wear  |
|                                | , closely approximating natural foods in<br>nce, taste, and nutrition.<br>amino acids   | ∞ polymers<br>polypropylene<br>polystyrene   | ∞ systems wear  system generated electromagnetic pulses  |
| appeara                        | , closely approximating natural foods in nce, taste, and nutrition.   | ∞ polymers<br>polypropylene  | ∞ systems wear  system generated electromagnetic pulses DEF Electromagnetic fields generated by the emission of a large electronic current from a  |
| appeara                        | , closely approximating natural foods in<br>nce, taste, and nutrition.<br>amino acids<br>biosynthesis<br>carbohydrates<br>cellulose   | ∞ polýmers<br>polypropylene<br>polystyrene<br>polytetrafluoroethylene<br>polyvinyl alcohol<br>polyvinyl chloride   |  |
| appeara                        | , closely approximating natural foods in<br>nce, taste, and nutrition.<br>amino acids<br>biosynthesis<br>carbohydrates  | ∞ polymers polypropylene polystyrene polytetrafluoroethylene polyvinyl alcohol polyvinyl chloride synthesis (chemistry)  | ∞ systems wear  system generated electromagnetic pulses DEF Electromagnetic fields generated by the emission of a large electronic current from a  |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats  | ∞ polymers polypropylene polystyrene polytetrafluoroethylene polyvinyl alcohol polyvinyl chloride synthesis (chemistry) teflon (trademark)   | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP   |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats food food intake   | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)  synthetic rubbers  | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP GS electromagnetic fields   |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats  | ∞ polymers polypropylene polystyrene polytetrafluoroethylene polyvinyl alcohol polyvinyl chloride synthesis (chemistry) teflon (trademark)   | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP   |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats food food intake nutritional requirements protein metabolism   | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers     GS elastomers     . rubber     . synthetic rubbers  | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP     GS electromagnetic fields   |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats food food intake nutritional requirements protein metabolism   | ∞ polymers polypropylene polystyrene polytetrafluoroethylene polyvinyl alcohol polyvinyl chloride synthesis (chemistry) teflon (trademark)  synthetic rubbers GS elastomers rubber   | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP GS electromagnetic fields   |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats of food food intake nutritional requirements protein metabolism proteins taste   | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers     GS elastomers     · rubber     · . synthetic rubbers     Adiprene (trademark)     Buna (trademark)     silicone rubber  | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.  UF SGEMP GS electromagnetic fields     system generated     electromagnetic pulses electromagnetic radiation electromagnetic pulses . system generated electromagnetic pulses . system generated electromagnetic pulses |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition.    amino acids    biosynthesis    carbohydrates    cellulose    eating    fats    food    food intake    nutritional requirements    protein metabolism    proteins    taste  ic fuels fuels  | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers     GS elastomers   | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.      UF SGEMP     GS electromagnetic fields  |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats of food food intake nutritional requirements protein metabolism proteins taste   | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers     GS elastomers     · rubber     · . synthetic rubbers     Adiprene (trademark)     Buna (trademark)     silicone rubber  | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.  UF SGEMP GS electromagnetic fields     system generated     electromagnetic pulses electromagnetic radiation electromagnetic pulses . system generated electromagnetic pulses . system generated electromagnetic pulses |
| appeara<br>RT                  | , closely approximating natural foods in nce, taste, and nutrition.    amino acids    biosynthesis    carbohydrates    cellulose    eating    fats    food    food intake    nutritional requirements    protein metabolism    proteins    taste  ic fuels    . chemical fuels    . synthetic fuels    gasohol (fuel)     | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers  GS elastomers     rubber   | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP GS electromagnetic fields   |
| appeara<br>RT  « « syntheti GS | , closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats of food food intake nutritional requirements protein metabolism proteins taste  ic fuels . chemical fuels . synthetic fuels synthane   | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers  GS elastomers     · rubber     · synthetic rubbers     · . Adiprene (trademark)     · . Buna (trademark)     · . silicone rubber     · . RTV-40 rubber (trademark)     · . Viton rubber (trademark)     · . Viton rubber (trademark)     · . vulcanized elastomers     · . RTV-40 rubber (trademark)     · . Viton rubber (trademark)     · . Viton rubber (trademark)     · . Viton rubber (trademark)     · . Viton rubber (trademark)     · . Viton rubber (trademark)     · . Viton rubber (trademark)   | systems wear  system generated electromagnetic pulses DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP. UF SGEMP GS electromagnetic fields . system generated  |
| appeara<br>RT                  | closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats food food intake nutritional requirements protein metabolism proteins taste  ic fuels fuels . chemical fuels synthetic fuels gasohol (fuel) synthane chemical reactions clean fuels        | □ polymers     □ polypropylene     □ polystyrene     □ polyetrafluoroethylene     □ polyvinyl alcohol     □ polyvinyl chloride     □ synthesis (chemistry)     teflon (trademark)    synthetic rubbers  GS elastomers     □ rubber     □ synthetic rubbers     □ Adiprene (trademark)     □ Buna (trademark)     □ silicone rubber     □ RTV-40 rubber (trademark)     □ RTV-60 rubber (trademark)     □ Viton rubber (trademark)     □ vulcanized elastomers     □ RTV-40 rubber (trademark)     □ vulcanized elastomers     □ RTV-40 rubber (trademark)     □ RTV-40 rubber (trademark)     □ RTV-40 rubber (trademark)     □ RTV-40 rubber (trademark)     □ RTV-60 rubber (trademark)     □ RTV-60 rubber (trademark)     □ Chloroprene resins | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP GS electromagnetic fields   |
| appeara<br>RT  « « syntheti GS | closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats food food intake nutritional requirements protein metabolism proteins taste  ic fuels fuels chemical fuels synthetic fuels synthane chemical reactions clean fuels Fischer-Tropsch process | ∞ polymers     polypropylene     polystyrene     polytetrafluoroethylene     polyvinyl alcohol     polyvinyl chloride     synthesis (chemistry)     teflon (trademark)   synthetic rubbers  GS elastomers     . rubber   | systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.      UF SGEMP GS electromagnetic fields  |
| appeara<br>RT  « « syntheti GS | closely approximating natural foods in nce, taste, and nutrition. amino acids biosynthesis carbohydrates cellulose eating fats food food intake nutritional requirements protein metabolism proteins taste  ic fuels fuels . chemical fuels synthetic fuels gasohol (fuel) synthane chemical reactions clean fuels        | □ polymers     □ polypropylene     □ polystyrene     □ polyetrafluoroethylene     □ polyvinyl alcohol     □ polyvinyl chloride     □ synthesis (chemistry)     teflon (trademark)    synthetic rubbers  GS elastomers     □ rubber     □ synthetic rubbers     □ Adiprene (trademark)     □ Buna (trademark)     □ silicone rubber     □ RTV-40 rubber (trademark)     □ RTV-60 rubber (trademark)     □ Viton rubber (trademark)     □ vulcanized elastomers     □ RTV-40 rubber (trademark)     □ vulcanized elastomers     □ RTV-40 rubber (trademark)     □ RTV-40 rubber (trademark)     □ RTV-40 rubber (trademark)     □ RTV-40 rubber (trademark)     □ RTV-60 rubber (trademark)     □ RTV-60 rubber (trademark)     □ Chloroprene resins | Systems     wear  system generated electromagnetic pulses     DEF Electromagnetic fields generated by the emission of a large electronic current from a metallic body in space caused by the incidence on its surface of strong ionizing radiation pulses (usually x ray) from space. Used for SGEMP.     UF SGEMP GS electromagnetic fields   |

electronic equipment central nervous system stimulants methoxy systems external surface currents chokes (fuel systems) microwave landing systems extraterrestrial radiation closed ecological systems microwave scanning beam landing ionizing radiation complex systems plasma sheaths computer systems design MIMO (control systems) satellite communication computer systems performance minitrack system spacecraft charging computer systems programs Miros system spacecraft communication computer systems simulation missile systems x rays Modular Integrated Utility System cooling systems system identification
DEF The technology of modeling plants and processes from their dynamic response.
GS estimating
. system identification identifying
. system identification
systems analysis musculoskeletal system NASA Interactive Planning System data base management systems National Airspace Utilization System data systems Defense Communications Satellite National Aviation System System National Oceanic Satellite System navigation needs (data system) nervous system Nike X systems NOESS defense communications system (DCS) descent propulsion systems systems analysis . system identification descent propulsion systems digestive system digital command systems digital systems discrete address beacon system disk operating system (DOS) display devices complex systems nonlinear systems control systems design Nova Laser System observability (systems) Omega Navigation System dynamic response estimates fuzzy systems distributed parameter systems domestic satellite communications on-line systems mathematical models operating systems (computers) maximum likelihood estimates optical relay systems systems observability (systems) early warning systems Earth Resources Information System payload deployment & retrieval optimization system parameter identification Earth terminal measurement system peripheral nervous system parameterization phase locked systems Earth-Moon system prediction analysis techniques ecosystems piggyback systems probability theory efferent nervous systems planetary systems reliability engineering EISCAT radar system (Europe) PLAT system statistical analysis elastic systems pneumatic equipment steepest descent method electronic recording systems pointing control systems ∞ systems emergency life sustaining systems polystation doppler tracking system systems engineering endocrine systems portable life support systems end-to-end data systems post boost propulsion system systematic errors escape systems propulsion system configurations (added April 1997) DEF Non-random and often predictable errors due to some physical law or caused by flaws in a measurement process. exhaust systems propulsion system performance fail-safe systems public address systems quality control feed systems radio relay systems Ranger block 3 television system feedback GS errors Fleet Satellite Communication System systematic errors fuel systems rapid transit systems error analysis reference systems
remote manipulator system
reproductive systems
respiratory system
rotor systems research aircraft
Safeguard system
SAGE air defense system
satellite navigation systems
self adaptive control systems
self organizing systems
Sentinel system
Shiva laser system
SISO (control systems)
SNAP
solar system reference systems fuzzy systems instrument compensation gastrointestinal system instrument errors genitourinary system Global Positioning System Goddard Trajectory Determination random errors systems System System
ground operational support system
ground support systems
guidance (motion)
hardening (systems)
hematopoietic system
hybrid navigation systems
hydraulic equipment
hydroplanes (surfaces)
hydrothermal systems
byperbolic systems
IFF systems (identification) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Advanced Vidicon Camera System (AVCS)
aerospace systems
afferent nervous systems African rift system air cushion landing systems Airborne Integrated Reconnaissance solar system System solar total energy systems IFF systems (identification) aircraft fuel systems space detection and tracking system ignition systems IMLSS aircraft hydraulic systems space transportation system all-weather landing systems Space Transportation System flights Aloha system inertial reference systems support systems annular suspension and pointing information adaptive system suspension systems (vehicles) information systems sympathetic nervous system Apollo extension system instrument landing systems system effectiveness ascent propulsion systems system failures intake systems Astroguide Navigation System Atmospheric & Oceanographic Inform integrated energy systems integrated global ocean station system identification systems analysis systems engineering systems automated pilot advisory system International System of Units systems integration automated radar terminal system intravascular system systems management automatic traffic advisory and jettison systems systems simulation resolution launch escape systems systems stability autonomic nervous system Ballistic Missile Early Warning System Beacon Collision Avoidance System télecommunication life support systems Light Airborne Multipurpose System telegraph systems teletypewriter systems television systems TERCOM linear systems LOCATÉS system binary systems (materials) LOCATES system
LORAC navigation system
lubrication systems
lumped parameter systems
Lunar Exploration System for Apollo
man machine systems
man operated propulsion systems
management information systems
management systems
matal-ras systems Bioastronautical Orbital Space ternary systems
TIROS operational satellite system
total energy systems
TRADEX radar system System biocontrol systems cardiovascular system celestial reference systems
Central Electronic Management transcontinental systems System central nervous system transfer functions transoceanic systems

metal-gas systems

SN

central nervous system depressants

Typhon weapon system

uncertain systems unmanned aircraft systems vacuum systems variable mass systems vortex advisory system warning systems weapon system management weapon systems

#### systems analysis

# systems analysis

system identification

RT ∞ analyzing block diagrams bond graphs complex systems computer programming computer systems programs computer systems simulation control systems design feasibility analysis

fuzzy systems man machine systems mathematical models modulation transfer function

observability (systems) operating costs operations research optical transfer function

parameter identification preflight analysis procedures

program verification (computers) sensitivity analysis

simulation sociology statistical analysis ∞ systems

trajectory analysis weight analysis weight reduction

#### systems compatibility

GS

compatibility systems compatibility

interoperability reliability reliability engineering

systems design

USE systems engineering

systems engineering
DEF The process of applying science and technology to the study and planning of a system so that the relationships of various parts of the system and the use of various subsystems are fully established before designs are committed.

UF systems design

#### GS systems engineering

. computer systems design control systems design

aerospace systems aircraft design

 $\infty$  automation bionics bond graphs

communicating concurrent engineering contract management

∞ control

critical path method cybernetics

data processing decision making

decision theory ∞ design

design optimization electrical engineering

∞ engineering experiment design flight management systems forecasting

functional design specifications human factors engineering

information theory life cycle costs

man machine systems management

management planning mathematical models

mechanization missile design modularity

multidisciplinary design optimization

observability (systems) operational problems

∞ operations

operations research optical transfer function orbit spectrum utilization parameter identification

reliability reliability engineering research and development reverse engineering satellite design software engineering spacecraft design

statistical analysis ∞ statistics

∞ synthesis synthesis (chemistry) system effectiveness

system identification ∞ systems systems integration

Systems for Nuclear Auxiliary Power

USE SNAP

# systems health monitoring

(added July 1995)

(INOT USED FOR PHYSIOLOGICAL, PSYCHOLOGICAL, OR BIOLOGICAL SYSTEMS)) health and usage monitoring systems component reliability

engine monitoring instruments

expert systems fault detection life (durability)

propulsion system performance

service life smart structures software reliability system effectiveness

## systems integration

DEF The combining of subsystems each with numerous interfaces for the input and output of data and each with specified functions vital to the planned success of the main system.

airborne/spaceborne computers

avionics

control systems design digital systems interoperability

system effectiveness

∞ systems

systems engineering systems simulation systems-on-a-chip

# systems management

GS management

# systems management

industrial management information systems man machine systems management methods operations research

∞ systems

#### systems simulation

The simulation of any dynamic system.

simulation

#### systems simulation

. . computer systems simulation

. . computer systems simulation analog simulation computerized simulation dynamic models dynamical systems flight simulation hardware-in-the-loop simulation mathematical models

mathematical models

model reference adaptive control

operations research ∞ systems

systems integration

# systems stability

GS stability

. systems stability control stability

dynamic stability equations of motion

∞ equilibrium flow stability loop transfer recovery MIMO (control systems) SISO (control systems) ∞ systems

unsteady state

systems-on-a-chip

(added May 2001)
DEF Single electronic chips that incorporate the multiple functional elements comprising a complete system; usually include processor core, I/O subsystems, and memory elements, and may include mixed-signal and mixedtechnology subsystems.

SOAC (electronics) SoC (microelectronics) chips (electronics)

. systems-on-a-chip

application specific integrated circuits large scale integration

microelectronics

microminiaturized electronic devices microoptoelectromechanical systems RISC processors

systems integration

# systole

GS heart function

. systole rates (per time)

systole blood flow blood pressure cardiac ventricles cardiovascular system diastole heart rate

systolic pressure

systolic arrays

arrays GS

. **systolic arrays** algorithms

architecture (computers) chips (electronics)

computation parallel processing (computers) very large scale integration

systolic pressure

pressure

. blood pressure

. systolic pressure

RT systole

S-Z effect

(added July 2000)

USE Sunyaev-Zeldovich effect

| T shape                               | T-34 engine                                 | T-53 engine                   |
|---------------------------------------|---|-------------------------------|
| UF tee                                | . internal combustion engines               | . internal combustion engines |
| GS shapes                             | gas turbine engines                         | gas turbine engines           |
| T shape                               | jet engines                                 | jet engines                   |
| RT beams (supports)                   | turbojet engines                            | turbojet engines              |
| <b>( 11  /</b>                        | turboprop engines                           | turboprop engines             |
| T tail surfaces                       | T-34 engine                                 | T-53 engine                   |
| GS assemblies                         | . turbine engines                           | . turbine engines             |
| . tail assemblies                     | gas turbine engines                         | gas turbine engines           |
| T tail surfaces                       | jet engines                                 | jet engines                   |
| tail surfaces                         |   |                               |
| . T tail surfaces                     | turbojet engines                            | turbojet engines              |
|                                       | turboprop engines                           | turboprop engines             |
| RT control surfaces                   | T-34 engine                                 | T-53 engine                   |
| stabilizers (fluid dynamics)          | RT C-133 aircraft                           | RT helicopter engines         |
| ∞ surfaces                            | =   |                               |
| sweptback tail surfaces               | T-37 aircraft                               | T-55 engine                   |
|                                       | GS Cessna aircraft                          | GS engines                    |
| T Tauri stars                         | . T-37 aircraft                             | . air breathing engines       |
| GS celestial bodies                   | jet aircraft                                | gas turbine engines           |
| . stars                               | . T-37 aircraft                             | jet engines                   |
| protostars                            | monoplanes                                  | turbojet engines              |
| pre-main sequence stars               | . T-37 aircraft                             | turboprop engines             |
| T Tauri stars                         | training aircraft                           | T-55 engine                   |
| variable stars                        | . T-37 aircraft                             | . aircraft engines            |
| T Tauri stars                         | RT A-37 aircraft                            |                               |
| RT Herbig-Haro objects                | ∞ aircraft                                  | T-55 engine                   |
| star formation                        | ∞ all clait                                 | . internal combustion engines |
|                                       | T-38 aircraft                               | gas turbine engines           |
| Taurus constellation                  |   | jet engines                   |
| T 0 . 1 #                             | UF Talon aircraft                           | turbojet engines              |
| T-2 aircraft                          | GS jet aircraft                             | turboprop engines             |
| UF buckeye aircraft                   | . T-38 aircraft                             | T-55 engine                   |
| T2J aircraft                          | monoplanes                                  | . turbine engines             |
| YT-2 aircraft                         | . T-38 aircraft                             | gas turbine engines           |
| GS attack aircraft                    | Northrop aircraft                           | jet engines                   |
| . T-2 aircraft                        | T-38 aircraft                               | turbojet engines              |
| jet aircraft                          | supersonic aircraft                         | turbojet engines              |
| . T-2 aircraft                        | . T-38 aircraft                             |                               |
| monoplanes                            | training aircraft                           | T-55 engine                   |
| . T-2 aircraft                        | . T-38 aircraft                             | RT helicopter engines         |
| North American aircraft               | RT ∞ aircraft                               |                               |
|                                       | N1 ∞ alliciali                              | T-56 engine                   |
| . T-2 aircraft                        | T-38 engine                                 | GS engines                    |
| single engine aircraft                |   | . air breathing engines       |
| T-2 aircraft                          | GS engines                                  | gas turbine engines           |
| training aircraft                     | . air breathing engines                     | jet engines                   |
| . T-2 aircraft                        | gas turbine engines                         | turbojet engines              |
| RT ∞ aircraft                         | jet engines                                 | turbojet engines              |
|                                       | turbojet engines                            |                               |
| T2J aircraft                          | turboprop engines                           | T-56 engine                   |
| USE T-2 aircraft                      | T-38 engine                                 | internal combustion engines   |
|                                       | . aircraft engines                          | gas turbine engines           |
| T3J aircraft                          | T-38 engine                                 | jet engines                   |
| USE T-39 aircraft                     | . internal combustion engines               | turbojet engines              |
| COL 1 00 unorun                       | . gas turbine engines                       | turboprop engines             |
| T-28 aircraft                         | jet engines                                 | T-56 engine                   |
| UF Trojan aircraft                    | , ,   | . turbine engines             |
| GS monoplanes                         | turbojet engines                            | gas turbine engines           |
|                                       | turboprop engines                           | jet engines                   |
| . T-28 aircraft                       | T-38 engine                                 | turbojet engines              |
| North American aircraft               | turbine engines                             | turboprop engines             |
| T-28 aircraft                         | gas turbine engines                         | T-56 engine                   |
| single engine aircraft                | jet engines                                 | RT C-130 aircraft             |
| . T-28 aircraft                       | turbojet engines                            | TT 0 100 dilotait             |
| training aircraft                     | turboprop engines                           | T.50                          |
| . T-28 aircraft                       | T-38 engine                                 | T-58 engine                   |
| RT ∞ aircraft                         |   | GS engines                    |
|                                       | T-39 aircraft                               | . air breathing engines       |
| T-33 aircraft                         | UF Sabreliner aircraft                      | gas turbine engines           |
| UF F-80 aircraft                      | T3J aircraft                                | T-58 engine                   |
| Shooting Star aircraft                | GS jet aircraft                             | . internal combustion engines |
| GS jet aircraft                       | . T-39 aircraft                             | gas turbine engines           |
| . T-33 aircraft                       | monoplanes                                  | T-58 engine                   |
|                                       | •   | . turbine engines             |
| Lockheed aircraft                     | . T-39 aircraft                             | gas turbine engines           |
| . T-33 aircraft                       | North American aircraft                     | T-58 engine                   |
| monoplanes                            | T-39 aircraft                               |                               |
| . T-33 aircraft                       | passenger aircraft                          | •                             |
| single engine aircraft                | . T-39 aircraft                             | helicopter engines            |
| T-33 aircraft                         | training aircraft                           | vertical takeoff aircraft     |
| training aircraft                     | . T-39 aircraft                             |                               |
| . T-33 aircraft                       | utility aircraft                            | T-63 engine                   |
| RT ∞ aircraft                         | . T-39 aircraft                             | GS engines                    |
|                                       | RT ∞ aircraft                               | . air breathing engines       |
| T-34 engine                           | cargo aircraft                              | gas turbine engines           |
| GS engines                            | 90 00.0                                     | jet engines                   |
| air breathing engines                 | T-53 engine                                 | turbojet engines              |
| gas turbine engines                   | GS engines                                  | turbojet engines              |
|                                       | 9   | T-63 engine                   |
| jet engines                           | . air breathing engines gas turbine engines |                               |
| turbojet engines<br>turboprop engines | das initione endines                        | . aircraft engines            |
|                                       |   |                               |
|                                       | jet engines                                 | T-63 engine                   |
|                                       |   |                               |

|         | jet engines                                       |                        | . internal combustion engines   |               | solar compasses                                 |
|---------|---|------------------------|---|---------------|---|
|         | turbojet engines turboprop engines                |                        | gas turbine engines jet engines   | tachisto      | oscopes   |
|         | T-63 engine                                       |                        | turbojet engines  |               | visual perception                               |
|         | . turbine engines                                 |                        | turboprop engines   |               |   |
|         | gas turbine engines                               |                        | T-78 engine   | tachom        |   |
|         | jet engines                                       |                        | . turbine engines   | GS            | display devices . speed indicators              |
|         | turbojet engines                                  |                        | gas turbine engines jet engines   |               | tachometers                                     |
|         | turboprop engines T-63 engine                     |                        | turbojet engines  |               | measuring instruments                           |
| RT      | helicopter engines                                |                        | turboprop engines   |               | . indicating instruments                        |
|         | 3 11  |                        | T-78 engine   |               | speed indicators                                |
| T-64 er |   |                        |   | DT            | tachometers                                     |
| GS      | engines . air breathing engines                   | tables (               | •   | RT            | aircraft instruments angular velocity           |
|         | gas turbine engines                               |                        | (1) An array of data, each item of which unambiguously identified by means of |               | timing devices                                  |
|         | jet engines                                       |                        | more arguments. (2) A collection of data                                      |               | velocity measurement                            |
|         | turbojet engines                                  |                        | h each item is uniquely identified by a                                       |               |   |
|         | turboprop engines                                 |                        | its position relative to the other items, or                                  | tachyca       |   |
|         | T-64 engine                                       |                        | e other means.  | GS            | diseases<br>. tachycardia                       |
|         | . internal combustion engines gas turbine engines | GS                     | tables (data)   |               | rates (per time)                                |
|         | jet engines                                       |                        | . conversion tables . interference factor table                               |               | . heart rate                                    |
|         | turbojet engines                                  |                        | . mathematical tables   |               | tachycardia                                     |
|         | turboprop engines                                 | RT                     | air data systems  | tachyo        | 20  |
|         | T-64 engine                                       |                        | astronomical catalogs   | tachyo<br>GS  | particles                                       |
|         | . turbine engines                                 | c                      | ∘ data  | 00            | . elementary particles                          |
|         | gas turbine engines jet engines                   |                        | data acquisition  |               | hypothetical particles                          |
|         | turbojet engines                                  |                        | data management data processing   |               | tachyons  |
|         | turboprop engines                                 |                        | data recording  | 4aab.m        |   |
|         | T-64 engine                                       |                        | data reduction  | tachypi<br>GS | nea<br>rates (per time)                         |
| RT      | helicopter engines                                |                        | data retrieval  | 00            | . respiratory rate                              |
| T-74 er | agino   |                        | printouts   |               | tachypnea                                       |
| GS      | engines   |                        | spreadsheets  |               |   |
|         | . air breathing engines                           | c                      | statistical analysis  | tackine       |   |
|         | gas turbine engines                               |                        | • tabulation  | RT            | adhesion  |
|         | jet engines                                       |                        | tabulation processes  | TACT p        | rogram  |
|         | turbojet engines                                  |                        |   | UF.           | Transonic Aircraft Technology                   |
|         | turboprop engines T-74 engine                     | tablets                | hadayada  |               | Program   |
|         | . internal combustion engines                     | RT                     | briquets<br>∘ capsules  | GS            | programs  |
|         | gas turbine engines                               | C                      | molds   |               | . NASA programs TACT program                    |
|         | jet engines                                       |                        |   | RT o          | ∞ aeronautics                                   |
|         | turbojet engines                                  | tabs (c                | ontrol surfaces)  |               | ∞ aircraft                                      |
|         | turboprop engines                                 | GS                     | airfoils  |               |   |
|         | T-74 engine<br>. turbine engines                  |                        | tabs (control surfaces)   |               | air navigation                                  |
|         | gas turbine engines                               |                        | control surfaces . tabs (control surfaces)                                    | USE           | Tacan   |
|         | jet engines                                       | RT                     | aerial rudders  | tactics       |   |
|         | turbojet engines                                  |                        | ailerons  | RT            | attacking (assaulting)                          |
|         | turboprop engines                                 | c                      | ∘ control   |               | deployment                                      |
| RT      | T-74 engine<br>helicopter engines                 |                        | elevators (control surfaces)  |               | evasive actions                                 |
| IXI     | rielicopter engines                               |                        | elevons   |               | military operations<br>military technology      |
| T-76 er | ngine   |                        | rudders<br>stabilizers (fluid dynamics)                                       |               | obstacle avoidance                              |
| GS      | engines   | c                      | surfaces  |               |   |
|         | . air breathing engines                           |                        |   |               | discrimination                                  |
|         | gas turbine engines jet engines                   | tabulati               | ng  | GS            | discrimination                                  |
|         | turbojet engines                                  | USE                    | tabulation processes  |               | . sensory discrimination tactile discrimination |
|         | turboprop engines                                 | tahulat                | i.a.m   |               | perception                                      |
|         | T-76 engine                                       | ∞ <b>tabulat</b><br>SN | (USE OF A MORE SPECIFIC TERM IS   |               | . sensory perception                            |
|         | . aircraft engines                                | OIV                    | RECOMMENDEDCONSULT THE TERMS  |               | touch   |
|         | T-76 engine . internal combustion engines         | RT                     | LISTED BELOW)<br>tables (data)  |               | tactile discrimination                          |
|         | gas turbine engines                               | 101                    | tabulation processes  | RT            | tactile sensors (robotics)                      |
|         | jet engines                                       |                        | ,   | tactile s     | ensation  |
|         | turbojet engines                                  | tabulat                | ion processes   | USE           |   |
|         | turboprop engines                                 | UF                     | tabulating  |               |   |
|         | T-76 engine                                       | RT                     | data processing   |               | sensors (robotics)                              |
|         | . turbine engines                                 |                        | data recording tables (data)  |               | ed January 1991)                                |
|         | gas turbine engines jet engines                   | c                      | tables (data)<br>∘ tabulation   | GS            | robot sensors . tactile sensors (robotics)      |
|         | turbojet engines                                  |                        |   | RT            | end effectors                                   |
|         | turboprop engines                                 | Tacan                  |   |               | manipulators                                    |
|         | T-76 engine                                       | DEF                    | A two dimensional navigation system   |               | robots  |
| RT      | helicopter engines                                |                        | rovides azimuth and distance to a fixed                                       | c             | sensors   |
| T-78 er | ngine   |                        | station for navigation in piloted aircraft.                                   |               | servomechanisms tactile discrimination          |
| GS      | engines   | UF                     | tactical air navigation   |               | teleoperators                                   |
| 00      | . air breathing engines                           | GS                     | navigation  |               | touch   |
|         | gas turbine engines                               |                        | . radio navigation  |               |   |
|         | jet engines                                       |                        | Tacan   | Tafel la      |   |
|         | turbojet engines                                  | RT                     | air navigation  | GS            | laws  |
|         | turboprop engines T-78 engine                     |                        | all-weather air navigation flight paths                                       | RT            | . Tafel law electrodes                          |
|         | . aircraft engines                                |                        | navigation aids   | KI            | electrolysis                                    |
|         | T-78 engine                                       |                        | radar navigation  |               | Ficks equation                                  |
|         |   |                        |   |               |   |

|           | polarization (charge separation)                                       | ۰                   | orotor blades                             |               | talc   |    |
|-----------|--|---------------------|---|---------------|--|----|
|           |  | 4.2                 |   |               | sodium compounds                                   |    |
| tagging   |  | tail sur            |   |               | . sodium silicates                                 |    |
| USE       | marking  | GS                  | tail surfaces . horizontal tail surfaces  |               | talc   |    |
|           |  |                     | . sweptback tail surfaces                 | talking       |  |    |
| TAGN      |  |                     | . T tail surfaces                         | GS            | speech   |    |
| UF        | triaminoguanidinenitrate   |                     | . trapezoidal tail surfaces               | 00            | . talking  |    |
| GS        | oxidizers  | RT                  | control surfaces                          | RT            | sentences  |    |
|           | . rocket oxidizers   |                     | elevators (control surfaces)              |               | signal transmission                                |    |
|           | TAGN   |                     | rudders                                   |               | · ·  |    |
|           | propellants  |                     | stabilizers (fluid dynamics)              | Talon ai      |  |    |
|           | . rocket propellants   | 0                   | o surfaces                                | USE           | T-38 aircraft                                      |    |
| RT        | TAGN explosives  | 4-:!!               | -1  | Tolon w       | sionile.   |    |
| IXI       | explosives   |                     | aircraft flying wing aircraft             | Talos m       | missiles   |    |
| <b>.</b>  | to and a to  |                     | tailless aircraft                         | 00            | . surface to air missiles                          |    |
|           | i methods<br>ed September 2000)  | 00                  | . AVRO 707 aircraft                       |               | Talos missile                                      |    |
|           | Quality engineering methodology, de-                                   |                     | . B-58 aircraft                           | RT            | Bumblebee project                                  |    |
|           | by Genichi Taguchi, for minimizing a                                   |                     | . F-102 aircraft                          |               | liquid propellant rocket engines                   |    |
|           | 's sensitivity to uncontrollable system                                |                     | . F-106 aircraft                          |               | multistage rocket vehicles                         |    |
|           | inces by simultaneously varying both                                   |                     | . FD 2 aircraft                           |               | solid propellant rocket engines                    |    |
| design    | and disturbance parameters. The  |                     | . HP-115 aircraft                         | 4am dana      |  |    |
|           | incorporates a special set of arrays                                   |                     | . Mirage 3 aircraft                       |               | mirrors<br>mirrors                                 |    |
|           | rthogonal arrays that define the minimal                               |                     | . SC-1 aircraft . Vulcan aircraft         | 00            | . magnetic mirrors                                 |    |
|           | of experiments that would provide the                                  |                     | . X-36 aircraft                           |               | tandem mirrors                                     |    |
|           | rmation for all factors that affect the ance parameter.                |                     | . X-45 aircraft                           | RT            | fusion reactors                                    |    |
|           | quality control  | RT ∘                | • aircraft                                |               | mirror fusion                                      |    |
| 55        | . Taguchi methods  |                     | blended-wing-body configurations          |               | plasma control                                     |    |
| RT        | design analysis  |                     | jet aircraft                              |               | thermal barriers (plasma control)                  |    |
|           | experiment design  |                     | low wing aircraft                         | 4             | rotor boliconters                                  |    |
|           | multidisciplinary design optimization                                  | 0                   | o military aircraft                       |               | rotor helicopters V/STOL aircraft                  |    |
|           | optimization   |                     | monoplanes                                | GS            | rotary wing aircraft                               |    |
|           | parameter identification   |                     | research aircraft                         |               | helicopters  |    |
|           | reliability engineering  | tailoring           |   |               | tandem rotor helicopters                           |    |
|           | statistical analysis   |                     | design                                    |               | CH-46 helicopter                                   |    |
|           | total quality management   |                     |   |               | CH-47 helicopter                                   |    |
| 4.9       | 1. P   |                     | semblies)                                 |               | H-25 helicopter                                    |    |
|           | emblies  | USE                 | tail assemblies                           | RT ∘          | ∘ aircraft   |    |
|           | The rear part of a body, as of an or a rocket. The tail surfaces of an | Taiwan              |   | tandom        | wing circroft                                      |    |
|           | or rocket. Used for empennage, tail                                    | <b>Taiwan</b><br>UF | Republic of China                         |               | wing aircraft  An aircraft congiguration having tw | νO |
|           | igs, tails (assemblies), and vertical tails.                           | GS                  | nations                                   |               | f similar span, mounted in tandem.                 | 70 |
| UF        |  | 00                  | . Taiwan                                  |               | tandem wing aircraft                               |    |
|           | tail mountings   | RT                  | Asia                                      | -             | . X-19 aircraft                                    |    |
|           | tails (assemblies)   |                     | China                                     |               | . X-22A aircraft                                   |    |
|           | vertical tails   |                     | Chinese space program                     | RT ∘          | ∘ aircraft   |    |
| GS        | assemblies   |                     | Chinese spacecraft                        |               | biplanes   |    |
|           | . tail assemblies  |                     | Hong Kong                                 |               | canard configurations                              |    |
|           | horizontal tail surfaces sweptback tail surfaces                       | Tallkiat            |   |               | dual wing configurations                           |    |
|           | swing tail assemblies  | Tajikist:           | an<br>ed August 1993)                     |               | jet aircraft<br>joined wings                       |    |
|           | T tail surfaces  |                     | nations                                   |               | research aircraft                                  |    |
|           | trapezoidal tail surfaces  | 00                  | . Tajikistan                              |               | subsonic aircraft                                  |    |
| RT        | aerial rudders   | RT                  | Asia                                      |               | X-22 aircraft                                      |    |
|           | afterbodies  |                     |   |               |  |    |
|           | aircraft parts   | takeoff             |   |               | tial blowing                                       |    |
|           | aircraft structures  |                     | The action of a rocket vehicle depart-    |               | ed October 1996)                                   |    |
|           | airfoils<br>airframes  |                     | its launch pad. The action of an aircraft | GS            | blowing  |    |
|           | boattails  |                     | comes airborne. takeoff                   | RT            | . tangential blowing<br>boundary layer control     |    |
|           | body-wing and tail configurations                                      | 65                  | . vertical takeoff                        | KI            | chords (geometry)                                  |    |
| ٥         | ∘ boom   | RT                  | air traffic control                       |               | circulation control airfoils                       |    |
|           | control surfaces   |                     | ascent                                    |               | jet flaps  |    |
|           | elevators (control surfaces)   |                     | climbing flight                           |               | lift augmentation                                  |    |
|           | fins   |                     | JATO engines                              |               | spanwise blowing                                   |    |
|           | hydrofoils   |                     | landing                                   |               | wing slots   |    |
|           | marine rudders missile structures                                      |                     | maneuvers                                 | 4             | t_   |    |
|           | rudders  |                     | runways                                   | tangent<br>GS |  |    |
|           | sails  | takeoff             | rune                                      | GS            | analysis (mathematics) . real variables            |    |
|           | stabilizers (fluid dynamics)   | RT                  | aircraft performance                      |               | periodic functions                                 |    |
|           | vanes  | 131                 | distance                                  |               | trigonometric functions                            |    |
|           |  |                     | runway alignment                          |               | tangents   |    |
| tail mou  | ıntings  |                     | short takeoff aircraft                    |               | functions (mathematics)                            |    |
|           | tail assemblies  |                     |   |               | . transcendental functions                         |    |
|           |  | takeoff             |   |               | periodic functions                                 |    |
| tail plan | es   | USE                 | aircraft launching devices                |               | trigonometric functions                            |    |
|           | horizontal tail surfaces   | talc                |   |               | tangents<br>geometry                               |    |
|           |  | UF                  | steatite                                  |               | Euclidean geometry                                 |    |
| tail roto | ors  | GS                  | magnesium compounds                       |               | . analytic geometry                                |    |
| GS        | rotating bodies  |                     | . talc                                    |               | tangents   |    |
|           | . rotors   |                     | minerals                                  | RT            | chords (geometry)                                  |    |
|           | tail rotors  |                     | . talc                                    |               |  |    |
|           | helicopter tail rotors   |                     | silicon compounds                         | tangling      |  |    |
| RT        | helicopter control   |                     | . silicates                               | RT            | confusion  |    |
|           | rotary wings   |                     | sodium silicates                          |               | entrapment   |    |

|           | mixing                           |                | . fuel tanks                            |                | . tantalum nitrides                      |
|-----------|----------------------------------|----------------|---|----------------|--|
| taul      |                                  |                | wing tanks                              |                |  |
| tank ge   | geometry                         |                | . cryogenic tanks                       |                | n oxides                                 |
| 00        | . tank geometry                  |                | . propellant tanks . spherical tanks    | GS             | chalcogenides<br>. oxides                |
| RT        | liquid sloshing                  |                | . storage tanks                         |                | metal oxides                             |
|           | propellant tanks                 | RT             | basins (containers)                     |                | tantalum oxides                          |
|           | storage tanks                    |                | bottles                                 |                | tantalum compounds                       |
|           | tanks (containers)               |                | chemical reactors                       |                | . tantalum oxides                        |
|           | ullage                           | 0              | o containers                            |                |  |
|           |                                  |                | drums (containers)                      | Tanzani        | a  |
| tank tru  |                                  |                | fluid filled shells                     | GS             | nations                                  |
| GS        | surface vehicles                 |                | liquid filled shells                    |                | . Tanzania                               |
|           | . motor vehicles trucks          |                | materials handling                      | RT             | Africa                                   |
|           | tank trucks                      |                | pipe nozzles                            |                |  |
| RT o      | o tankers                        |                | pressure vessels receivers              | tape red<br>UF | magnetic tape recorders                  |
|           | trailers                         | ~              | structures                              |                | recording instruments                    |
|           |                                  | _              | tank geometry                           |                | . tape recorders                         |
| tanker    |                                  |                | towers                                  |                | video tape recorders                     |
| GS        | transport aircraft               |                | wing-fuselage stores                    | RT             | data recorders                           |
| DT        | . tanker aircraft                |                |   |                | electronic recording systems             |
| RT        | air to air refueling             | tantaluı       | n                                       |                | magnetic tape transports                 |
| ٥         | ∘ aircraft<br>aircraft fuels     | GS             | chemical elements                       |                | magnetic tapes                           |
|           | bomber aircraft                  |                | . tantalum                              | 000            | recorders                                |
|           | fuel tanks                       |                | tantalum isotopes                       |                | recording heads                          |
| ٥         | o military aircraft              |                | metals                                  | 4              |  |
|           | • tankers                        |                | . refractory metals                     | taper          | tanarina                                 |
|           | Valiant aircraft                 |                | tantalum                                | USE            | tapering                                 |
|           |                                  |                | tantalum isotopes transition metals     | tanered        | columns                                  |
| tanker    |                                  |                | tantalum                                | -              | structural members                       |
| GS        | surface vehicles                 |                | tantalum isotopes                       |                | . columns (supports)                     |
|           | . cargo ships                    |                | refractory materials                    |                | tapered columns                          |
|           | tanker ships                     |                | . refractory metals                     |                | ·  |
|           | water vehicles<br>. ships        |                | tantalum                                | tapered        | wings                                    |
|           | . cargo ships                    |                | tantalum isotopes                       | ÜSE            | swept wings                              |
|           | tanker ships                     |                |   |                |  |
| RT        | artificial harbors               | tantaluı       | n alloys                                | tapering       |  |
|           | deepwater terminals              | GS             | alloys                                  | UF             | taper                                    |
|           | harbors                          |                | . heat resistant alloys                 | RT             | convergence                              |
|           | marine transportation            |                | refractory metal alloys                 |                | deceleration<br>reduction                |
|           | offshore docking                 |                | tantalum alloys refractory materials    | α.             | reduction                                |
|           | offshore platforms               |                | . refractory metal alloys               | ∞ tapes        |  |
|           | shipyards                        |                | tantalum alloys                         | SN             | (USE OF A MORE SPECIFIC TERM IS          |
| ٥         | • tankers                        | RT             | hafnium alloys                          |                | RECOMMENDEDCONSULT THE TERMS             |
|           | wharves                          |                | ,                                       | RT             | LISTED BELOW)<br>adhesives               |
| tanker    | terminals                        | tantaluı       | n carbides                              | 101            | audio tapes                              |
| RT        | artificial harbors               | GS             | carbon compounds                        |                | computer compatible tapes                |
|           | cargo ships                      |                | . carbides                              |                | fasteners                                |
|           | deepwater terminals              |                | tantalum carbides                       |                | heat tapes                               |
|           | marine technology                |                | tantalum compounds                      |                | magnetic tapes                           |
|           | oceanography                     |                | . tantalum carbides                     |                | plastic tapes                            |
|           | offshore docking                 |                |   |                | playbacks                                |
|           | offshore platforms               |                | n compounds                             |                | punched tapes                            |
|           | ship terminals                   | GS             | tantalum compounds                      |                | ribbons                                  |
| ٥         | o tankers                        |                | . tantalum carbides . tantalum nitrides |                | seals (stoppers)                         |
|           | terminal facilities              |                | . tantalum oxides                       |                | splicing video tapes                     |
|           | transportation                   | RT 。           | chemical compounds                      |                | video tapes                              |
| ∞ tankers |                                  |                | Group 5B compounds                      | taps           |  |
| SN        | (USE OF A MORE SPECIFIC TERM IS  |                | metal compounds                         | RT             | cutters                                  |
|           | RECOMMENDEDCONSULT THE TERMS     |                | •                                       |                | drills                                   |
| RT        | LISTED BELOW) artificial harbors | tantaluı       | n isotopes                              |                | machine tools                            |
|           | deepwater terminals              | GS             | chemical elements                       |                | tools                                    |
|           | offshore docking                 |                | . nuclides                              |                |  |
|           | offshore platforms               |                | isotopes                                | tar sand       |  |
|           | tank trucks                      |                | tantalum isotopes                       | GS             | resources                                |
|           | tanker aircraft                  |                | . tantalum                              |                | . Earth resources                        |
|           | tanker ships                     |                | tantalum isotopes<br>metals             |                | tar sands<br>sediments                   |
|           | tanker terminals                 |                | . refractory metals                     |                | . sands                                  |
|           | transportation energy            |                | tantalum                                |                | tar sands                                |
| tanke (   | combat vehicles)                 |                | tantalum isotopes                       |                | soils                                    |
|           | surface vehicles                 |                | . transition metals                     |                | . sands                                  |
| -         | . tanks (combat vehicles)        |                | tantalum                                |                | tar sands                                |
| RT        | armed forces                     |                | tantalum isotopes                       | RT             | distillation                             |
|           | military operations              |                | refractory materials                    |                | oil exploration                          |
| 0         | o military vehicles              |                | . refractory metals                     |                | oil fields                               |
|           | ordnance                         |                | tantalum                                |                | oils                                     |
| ۰         | • vehicles                       |                | tantalum isotopes                       |                | tars                                     |
|           | weapons                          | tontal         | n nitridos                              | TADE /         | data reduction)                          |
| tanke (   | containers)                      | tantalui<br>GS | n nitrides<br>nitrogen compounds        |                | data reduction) data reduction           |
|           | tanks (containers)               | 33             | . nitrides                              | USE            | data reduction                           |
| 33        | . bunkers (fuel)                 |                | metal nitrides                          | target a       | cquisition                               |
|           | . cylindrical tanks              |                | tantalum nitrides                       |                | The process of optically, manually, me-  |
|           | . external tanks                 |                | tantalum compounds                      |                | ly, or electronically orienting tracking |
|           |                                  |                |   |                |  |

systems in the direction and range to lock on a UF towed targets RT Australia GS targets target. ĞS acquisition Jindivik target aircraft taste gustatory perception perception target acquisition laser targets UF RT . particle accelerator targets detection GS high alt target and background . radar targets . sensory perception measurement . radar target scatter site program . taste MATTS (systems) RT Airborne Integrated Reconnaissance RT chemoreceptors missile detection System synthetic food moving target indicators command and control multiple target tracking detection **TATB** Firebee 2 target drone aircraft sound ranging triaminotrinitrobenzene surveillance irradiation GS explosives targets laser target designators . TATB laser target interactions propellants target drone aircraft line of sight . rocket propellants GS drone vehicles microballoons . TATB . drone aircraft ∞ missions rocket oxidizers multiple target tracking . . target drone aircraft ... Firebee 2 target drone aircraft radar echoes Sandpiper target missile Taurid meteoroids . Jindivik target aircraft celestial bodies GS pilotless aircraft surveillance . meteoroid showers . drone aircraft target acquisition . . Taurid meteoroids . . target drone aircraft target drone aircraft target masking . meteoroids ... Firebee 2 target drone aircraft . . Taurid meteoroids . . Jindivik target aircraft target recognition RT ∞ aircraft target thickness Taurus constellation ∞ military aircraft GS constellations remotely piloted vehicles tars Taurus constellation targets GS products Crab nebula . petroleum products Pleiades cluster target masking DEF Technique used in vision contrast discrimination testing involving the ratio of the luminance of a target (object) to the luminance of the background, especially when light and dark adaptation are factors. . tars T Tauri stars RT asphalt gums (substances) tautomers pitch (material) RT congeners tar sands isomers masking GS tartar missile target masking taxiing GS missiles air traffic control countermeasures . antiaircraft missiles stealth technology airfield surface movements . tartar missile targets runways surface to air missiles . tartar missile target penetration taxonomy USE terminal ballistics AJ-10 engine RT classifications Bumblebee project ∞ classifying solid propellant rocket engines target recognition ∞ science detection . target recognition GS ∞ zoology task complexity recognition GS complexity Taylor instability target recognition task complexity GS dynamic characteristics discrimination RT costs . dynamic stability laser target designators ∞ performance . . motion stability missile detection quality control . . . flow stability missile signatures scheduling . . . . Taylor instability multiple target tracking . flow characteristics multistatic radar task planning (robotics) . . flow stability nap-of-the-earth navigation (added December 1990) . Taylor instability radar homing missiles planning stability radar signatures task planning (robotics) . dynamic stability signature analysis . . motion stability RT robotics ... flow stability
... Taylor instability
density distribution
Goertler instability signatures robots stealth technology scheduling surveillance tasks targets teleoperators TRADEX radar system telerobotics interface stability perturbation theory target simulators rotating fluids tasks GS simulators jobs two dimensional flow UF target simulators GS tasks computerized simulation Taylor manifest anxiety scale auditory tasks display devices visual tasks RT anxiety scene generation costs physiological tests crew procedures (inflight) psychological effects target thickness crew procedures (preflight) psychological tests dimensions ∞ elements target thickness matrix management particle accelerator targets **Taylor series** physical work targets Taylor theorem projects thickness analysis (mathematics) quality control . calculus retraining . . series (mathematics) target tracking scheduling ... power series USE tracking (position) task planning (robotics) .... Taylor series ∞ tests MacLaurin series DEF Objects or points toward which some-. real variables thing is directed. Objects which reflect a suffi-. . series (mathematics) Tasmania cient amount of a radiated signal to produce an echo signal on detection equipment. Used for . . . power series landforms . Taylor series . islands

Tasmania

towed targets

. . . . . MacLaurin series

RT theorems ∞ machinery . nanotechnology . reactor technology teams Taylor theorem small satellite technology bureaus (organizations) USE Taylor series industries federations low gravity manufacturing Taylor-Goertler instability institutions manufacturing USE Goertler instability organizations nucleonics projects space manufacturing TCG (tracking) university program technology assessment USE transponder control group technology utilization tearing urban development mechanical properties TCV program **Terminal Configured Vehicle** rupturing shredding technology assessment Program GS assessments technology assessment TD satellites tearing modes (plasmas) Canadian space program
Communications Technology Satellite Explosive reconnections of energetic GS artificial satellites . ESA satellites particle accelerations at high voltages in the Delphi method (forecasting) ... TD satellites magnetosphere during substorms. evaluation feasibility analysis ... TD-1 satellite RT ballooning modes modes . synchronous satellites industries TD satellites plasmas (physics) manufacturing . TD-1 satellite pattern method (forecasting) technetium ESA spacecraft probe method (forecasting) GS chemical elements . ESA satellites profile method (forecasting) . TD satellites . technetium strategic materials . . . TD-1 satellite technologies . transition metals value . . technetium TD-1 satellite GS artificial satellites technology feasibility spacecraft technetium compounds . ESA satellites GS unmanned spacecraft GS technetium compounds .. TD satellites technology feasibility spacecraft . technetium fluorides . . . TD-1 satellite RT scientific satellites RT ∞ chemical compounds . synchronous satellites ∞ spacecraft ∞ Group 7B compounds . . TD satellites ∞ metal compounds . TD-1 satellite technology transfer ESA spacecraft . ESA satellites technetium fluorides The process of converting scientific GS halogen compounds findings from research laboratories and govern-... TD satellites . fluorine compounds mental activities into commercially viable prod-... TD-1 satellite . . fluorides ucts. ... technetium fluorides GS technology transfer **TDMA** . halides . aerospace technology transfer time division multiple access . . fluorides RT commercialization ... technetium fluorides communicating . . metal halides communication Orbiting communications satellites, de-. technetium fluorides documentation veloped by NASA to relay data from satellite technetium compounds documents sensors to groundstations and to track the sattechnetium fluorides information flow ellites in orbit. information management Tracking and Data Relay Satellites technetium isotopes information transfer artificial satellites GS GS chemical elements reports . communication satellites . nuclides selective dissemination of information ... TDR satellites . . isotopes space commercialization autonomous spacecraft clocks . . technetium isotopes Starsite program communicating technological forecasting data transmission technology utilization transferring . transition metals radio relay systems . . technetium isotopes satellite networks satellite transmission technical writing technology utilization telecommunication abstracts utilization GS telemetry documentation technology utilization editing aerospace technology transfer **TEA lasers** records Canadian space program transversely excited atmospheric specifications Communications Technology Satellite lasers translating control configured vehicles GS stimulated emission devices data products . lasers techniques general overviews . . gas lasers USE methodology Indian space program . . TEA lasers industries RT atmospheric lasers technological forecasting information transfer carbon dioxide lasers GS predictions laser applications carbon monoxide lasers . forecasting manufacturing chemical lasers . . technological forecasting NASA programs gas masers . . . Delphi method (forecasting) patent applications HF lasers pattern method (forecasting) research and development laser modes ... probe method (forecasting) Synchronous Earth Observatory pulsed lasers . profile method (forecasting) satellite stimulated emission aerospace technology transfer technologies estimating technology transfer technology transfer teachers USE instructors tectonic movement technologies GS technologies USE tectonics teaching
USE education . biotechnology . tissue engineering tectonics DEF A branch of geology dealing with the broad architecture of the upper part of the

. bubble technique energy technology
 geothermal technology

. marine technology

. military technology

Earth's crust, that is, the regional assembling of structural or deformational features, a study of

their mutual relations, their origin, and their

teaching machines

learning

GS

training devices

machine learning

teaching machines

historical evolution. Used for tectonic move-. meteorites . . biotelemetry . . stony meteorites . . P.A.C.M. telemetry tectonic movement ... tektites . . PCM telemetry GS geology . . . . australites . . radio telemetry . tectonics ... bediasites ... pulse frequency modulation chondrites telemetry . neotectonics RT asthenosphere . transoceanic communication coesite core-mantle boundary Cyrillid meteoroids . video communication ∞ depression meteoritic composition . . video conferencing Earth movements meteoritic microstructures . teleconferencing Earth planetary structure . telemedicine micrometeorites fissures (geology) wideband communication natural satellites geophysics . wireless communication plates (tectonics) . . computer conferencing telechirics sea floor spreading . . HET experiment USE remote handling . video conferencing subduction (geology) access control telecommunication TED antennas DEF Any transmission, emission, or recep-USE transferred electron devices ARPA computer network tin of signs, signals, writings, images, sounds, or automatic repeat request information of any nature by wire, radio, visual, Tedlar (trademark) ∞ channels or electromagnetic systems. USE polyvinyl fluoride code division multiplexing communication systems UF communicating communication networks GS telecommunication USE T shape aircraft communication communication satellites broadcasting closed circuit television computers teetering data compression RT ∞ motion color television data processing communication data sampling teeth . . facsimile communication data transmission (EXCLUDES GEAR TEETH AND OTHER MECHANICAL DEVICES) SN . automatic picture transmission demodulation line of sight communication GS anatomy detectors . . optical communication . digestive system digital systems free-space optical communication . teeth direct broadcast satellites ... ship to shore communication RT dental calculi electromagnetic radiation . . underwater communication dentistry frequency division multiplexing . . voice communication mastication information theory ... telephony mouth INMARSAT satellites . . quantum communication oral hygiene interfaces data links tooth diseases interphones . Defense Communications Satellite modulation System teflon (trademark) Molniya satellites . . Fleet Satellite Communication halogen compounds Morse code System . fluorine compounds NASCOM network . defense communications system . . fluoro compounds networks (DCS) ... difluoro compounds onboard equipment . educational television . . . polytetrafluoroethylene packet switching . electronic mail . teflon (trademark) point to point communication . ground-air-ground communication ... fluorine organic compounds satellite antennas . multichannel communication . . . . fluorohydrocarbons Seafarer project . multiple access . . polytetrafluoroethylene signal detection . . Aloha system signal detectors ..... teflon (trademark) . . carrier sense multiple access signal encoding . . . . fluoropolymers code division multiple access signal transmission . . . . polytetrafluoroethylene . . demand assignment multiple .... teflon (trademark) ∞ signals access organic compounds ∞ systems . . frequency division multiple access . fluorine organic compounds TDR satellites . time division multiple access . . fluorohydrocarbons telegraph systems . packet transmission ... polytetrafluoroethylene teletypewriter systems . teflon (trademark) Aloha system television systems PLAT system . . fluoropolymers transcontinental systems . . . polytetrafluoroethylene pulse communication transmission teflon (trademark) . digital spacecraft television transmission circuits . radio communication . hydrocarbons transmission lines . . fluorohydrocarbons . . radio relay systems transmission rate (communications) ... code division multiple access . polytetrafluoroethylene transmitters time division multiple access . teflon (trademark) transoceanic systems . . radio telegraphy plastics video data . polytetrafluoroethylene . . radio telemetry VSAT (network) . . . pulse frequency modulation teflon (trademark) Westar satellites telemetry  $RT \, \infty \, polymers$ wide area networks . . telephony resins . radiotelephones synthetic resins teleconferencing single channel per carrier telecommunication transmission Tektite project . teleconferencing . space communication programs . . computer conferencing NASA programs . . extraterrestrial communication . . HET experiment . . NASA space programs . . . Tektite project . . interplanetary communication . video conferencing . . lunar communication communication satellites . . . circumlunar communication . space programs conferences . . spacecraft communication . . NASA space programs multichannel communication ... reentry communication ... Tektite project multimedia satellite communication satellite networks . spacecraft antennas tektites telemedicine DEF Small glassy bodies containing no cystals, composed of at least 65 percent silicon . spacecraft television . . digital spacecraft television

. . Ranger block 3 television system

. satellite television

stereotelevision

. telemetry

dioxide, bearing no relation to the geological formations in which they occur, and believed to

be of extraterrestrial origin.

GS celestial bodies

teleconnections (meteorology)

widely separated points.

DEF Statistically significant temporal correlations between meteorological parameters at

# telegraph systems

RT climatology single channel per carrier telegraph systems correlation transmission data correlation spiral antennas telerobotics Earth atmosphere TDR satellites (added December 1990) meteorological parameters time division multiplexing GS robotics meteorology trajectory measurement telerobotics secular variations transponder control group manipulators significance weather data recorders orbital servicing spatial distribution wireless communication remote control statistical analysis robot dynamics robots statistical correlation teleoperator maneuvering system synoptic meteorology space tools USE teleoperators task planning (robotics) temporal distribution teleoperators teleoperators DEF Remo telegraph systems Remotely controlled mobility modules Telesat Canada 3 telegraphy which incorporate sensory and manipulative USE Anik 3 RT pulse communication subsystems for the purpose of extending the human operators skills and cognitive capabilities radio communication Telesat Canada A single channel per carrier into hostile or remote environments. USE Anik 1 transmission teleoperator maneuvering system ∞ systems GS control equipment Telesat Canada B telecommunication teleoperators USE Anik 2 teleprinters RT human factors engineering teletypewriters Telesat Canada C man machine systems Westar satellites manipulators USE Anik 3 remote control telegraphy
USE telegraph systems remote handling telescopes robotics UF astronomical telescopes GS tactile sensors (robotics) telescopes telemedicine task planning (robotics) celescopes (added May 1997) . circumsolar telescopes DEF The use of telecommunication tech-. gamma ray telescopes torque sensors (robotics) nologies as a medium for providing medical . grazing incidence telescopes services (diagnostic, therapeutic, education, GRIST (telescope) and research) by health care professionals to telephones . heliometers ĠS telephones sites that are remote from the provider. . pyroheliometers . radiotelephones telecommunication . infrared telescopes earphones telemedicine ... Large Deployable Reflector telephony aerospace medicine Space Infrared Telescope Facility utilities. biotelemetry manned orbital telescopes diagnosis . . Apollo telescope mount medical electronics telephony . particle telescopes medical equipment telecommunication . radio telescopes medical science . communication . . kilometer wave orbiting telescope medical services . . voice communication Very Large Array (VLA) teleconferencing ... telephony . . Very Long Baseline Array (VLBA) . radio communication . reflecting telescopes telemeters . telephony . . Large Deployable Reflector USE telemetry transmission Starsat telescope refracting telescopes
. Schmidt telescopes telephony communication equipment telemetry DEF The science of measuring a quantity or . spaceborne telescopes crosstalk quantities, transmitting the results to a distant station, and there interpreting, indicating, and/or echo suppressors Constellation-X Iridium network . . German Infrared Laboratory Hubble Space Telescope
 Infrared Space Observatory (ISO)
 James Webb Space Telescope
 Large Deployable Reflector radiotelephones recording the quantities measured. Used for single channel per carrier telemeters. UF telemeters transmission GS sound transmission telecommunication Symphonie satellites . telemetry . LIRTS (telescope) telephones . . biotelemetry . . solar optical telescope verbal communication P.A.C.M. telemetry Space Infrared Telescope Facility . . PCM telemetry Starlab . . radio telemetry Starsat telescope telephotometers ... pulse frequency modulation X Ray Astrophysics Facility USE telephotometry ... XMM-Newton telescope telemetry transmission . spectroscopic telescopes telephotometry . signal transmission . . multispectral tracking telescopes The body of principles and techniques . . telemetry . . stratoscope telescopes concerned with measuring atmospheric extinc-... biotelemetry . ultraviolet telescopes tion using various types of telephotometers. P.A.C.M. telemetry . . Starlab Used for telephotometers. ... PCM telemetry . x ray telescopes UF telephotometers . . . radio telemetry . . Constellation-X GS optical measurement . . . . pulse frequency modulation X Ray Astrophysics Facility . photometry telemetry XMM-Newton telescope telephotometry Advanced Range Instrumentation anisoplanatism astronomical photometry Aircraft antennas optical measuring instruments astronomical observatories communication equipment photometers data compression astronomy transmissometers balloon-borne instruments data links data retrieval binoculars data transmission teleprinters Cassegrain optics decommutators printers coronagraphs differential pulse code modulation teleprinters etalons in-flight monitoring typewriters eyepieces measuring instruments . teletypewriters lenses

. teleprinters

printers (data processing)

keying

receivers

mirrors

optical coatings optical equipment

multi-anode microchannel arrays

pulse communication

radio communication

signal processing

ship to shore communication

optical measuring instruments optical transfer function periscopes reflectors Schmidt cameras seeing (astronomy) solar instruments spaceborne astronomy ultraviolet astronomy

telescoping structures USE folding structures

(added January 1996)

DEF A natural satellite of Saturn orbiting at a mean distance of 294,660 kilometers.

celestial bodies

- . natural satellites
- . . Saturn satellites
- . . Telesto

Saturn (planet)

# teletypewriter systems

facsimile communication microwave transmission ∞ systems

telecommunication teletypewriters

# teletypewriters

typewriters

- teletypewriters
- . teleprinters

keying receivers

telegraph systems

teletypewriter systems

# television cameras

GS optical equipment

- . cameras
- . television cameras photographic equipment

. cameras

. television cameras

television equipment

. television cameras

camera tubes

closed circuit television digital cameras

Lallemand cameras

optical scanners

orthicons

raster scanning

return beam vidicons satellite television

### television equipment

# GS television equipment . image dissector tubes

- . monoscopes
- television cameras
- . television receivers

RT cathode ray tubes diplexers

∞ equipment

flying spot scanners

orthicons

picture tubes

. video equipment

#### television receivers receivers

television receivers

television equipment

television receivers closed circuit television

tuners

### television reception

GS signal reception

television reception color television

radio receivers radio reception

∞ receivina

# television systems

GS television systems

. Advanced Vidicon Camera System (AVCS)

. cable television

. closed circuit television

. color television

. digital television

. . digital spacecraft television

educational television

high definition television

PLAT system

. spacecraft television

. . digital spacecraft television

. . Ranger block 3 television system

. satellite television

stereotelevision

communication equipment

Earth terminals

facsimile communication

imaging techniques

orbit spectrum utilization

radio communication

space communication

systems

telecommunication

video communication

video conferencing

video data

## television transmission

GS transmission

. electromagnetic wave transmission

. . television transmission

. signal transmission

. television transmission

automatic picture transmission

cable television closed circuit television

color television digital television

direct broadcast satellites

double sideband transmission

high definition television line of sight communication

Molniya satellites

radio transmitters

satellite television

satellite transmission

single sideband transmission

spacecraft television

sweep frequency time division multiplexing

transmitters

wave propagation

Tellegen theory

USE gyrators

network analysis

network synthesis

# telluric currents

DEF Large scale surges of electric charges within the Earth's crust, associated with disturbances of the ionosphere. Used for earth currents.

Earth currents UF

GS electric current

telluric currents

electricity

. geoelectricity

. telluric currents

atmospheric electricity auroral electrojets

dynamo theory

field aligned currents geomagnetic micropulsations

# telluric lines

DEF Absorption lines in a solar spectrum produced by constituents of of the atmosphere of the Earth itself rather than by gases in the outer solar atmosphere such as those responsible for the Fraunhofer lines.

GS spectra

. radiation spectra

. . absorption spectra

... telluric lines . . electromagnetic spectra

. . . line spectra .... telluric lines . spectral bands

. . absorption spectra telluric lines

RT H lines

# tellurides

GS chalcogenides

. tellurides

. . bismuth tellurides

. . cadmium tellurides . . indium tellurides

. . lanthanum tellurides

. . lead tellurides

. . mercury tellurides

. . . mercury cadmium tellurides

. . tin tellurides

. . zinc tellurides

tellurium compounds

#### . tellurides

. . bismuth tellurides

. . cadmium tellurides . . indium tellurides

. . lanthanum tellurides

. . lead tellurides

. . mercury tellurides

. . . mercury cadmium tellurides

. . tin tellurides

. zinc tellurides

RT intermetallics

# tellurium

chemical elements GS

. metalloids

. . tellurium

. . . tellurium isotopes

. nuclides . . isotopes

USE tellurium isotopes

. . . tellurium . . . . tellurium isotopes

tellurium 119

tellurium alloys

allovs . tellurium alloys

# tellurium compounds

GS tellurium compounds . tellurides

. . bismuth tellurides

. . cadmium tellurides . . indium tellurides

lanthanum tellurides

. . lead tellurides

. . mercury tellurides . . . mercury cadmium tellurides

. . tin tellurides . zinc tellurides  $RT \propto chemical \ compounds$ 

# 

tellurium isotopes tellurium 119 chemical elements

GS . metalloids

. . tellurium ... tellurium isotopes

. nuclides . . isotopes

. . . tellurium . . . . tellurium isotopes

tellurometers

measuring instruments . distance measuring equipment

. tellurometers geodimeters range finders

# telomeres

(added October 2004)

Terminal section of a chromosome involved in chromosomal replication and stability.

chromosome aberrations chromosomes

# Telstar 1 satellite

aenes

GS artificial satellites

. Telstar satellites . Telstar 1 satellite

Telstar 2 satellite

artificial satellites GS . Telstar satellites . Telstar 2 satellite

Telstar project

GS programs projects

. Telstar project artificial satellites communication satellites Comsat program

Telstar satellites

artificial satellites . Telstar satellites Telstar 1 satellite . Telstar 2 satellite Comsat program

TEM (microscopy)

transmission electron microscopy

Thor Delta launch vehicle

Tempel 1 comet

(added July 2005)

celestial bodies

. comets

. Tempel 1 comet

Deep Impact Mission hypervelocity impact hypervelocity projectiles impact damage projectile cratering Tempel 2 comet

Tempel 2 comet

DEF A comet for which a spacecraft rendezvous had been planned for 1988 because of its accessible orbit. It has been replaced by a planned spacecraft rendezvous with the Wild 2 comet in 1994.

celestial bodies

. comets

. Tempel 2 comet

RT ∞ coma meteoroids

solar system Tempel 1 comet

temper (metallurgy)

cold working ductility hardness heat treatment tempering

temperate regions

midlatitudes UF subtropical regions GS regions

temperate regions

RT climatology geography polar regions tropical regions

In general, the intensity of heat as measured on some definite temperature scale by means of any of various types of thermometers. In statistical mechanics, a measure of translational molecular kinetic energy (with three degrees of freedom). In thermodynamics, the integrating factor of the differential equation referred to as the first law of thermodynamics. Used for body temperature (non-biological).

body temperature (non-biological)

temperature

. absolute zero . ambient temperature

. atmospheric temperature . . auroral temperature . ionospheric temperature

body temperature
brightness temperature

. combustion temperature

. critical temperature Curie temperature . flame temperature

. gas temperature glass transition temperature

. high temperature . ignition temperature . flash point

inlet temperature ion temperature . low temperature

. cryogenic temperature lunar temperature neel temperature

. noise temperature operating temperature planetary temperature plasma temperature

room temperature satellite temperature

skin temperature (biology) solar temperature space temperature

spin temperature
stagnation temperature
stellar temperature
subzero temperature

surface temperature . . land surface temperature sea surface temperature

skin temperature (non-biological)

wall temperature transition temperature water temperature

. . ocean temperature . sea surface temperature

ablative materials

adiabatic conditions air conditioning biological effects climatology comfort convective flow electron energy emissivity environments free convection geotemperature

Gibbs-Helmholtz equations

heat heat shielding heat storage heating humidity isotherms lapse rate melting points

meteorology ocean thermal energy conversion refrigerating

Saha equations surface cooling

temperature compensation temperature control temperature dependence temperature distribution temperature effects temperature gradients temperature inversions temperature measurement

temperature measuring instruments temperature probes temperature profiles temperature ratio

temperature scales temperature sensors tephigrams thermal absorption thermal analysis

thermal blooming thermal boundary layer thermal buckling thermal comfort thermal conductivity thermal conductivity gages thermal conductors thermal control coatings thermal cycling tests

thermal decomposition

thermal degradation thermal diffusion thermal diffusivity thermal dissociation thermal emission thermal energy thermal environments thermal expansion thermal fatigue thermal instability thermal insulation thermal mapping thermal neutrons thermal noise thermal plasmas thermal pollution thermal protection thermal radiation thermal reactors thermal resistance thermal resources thermal shock thermal simulation thermal stability thermal stresses thermal vacuum tests thermodynamic efficiency

ventilation temperature compensation

instrument compensation . temperature compensation

thermodynamic properties

RT ∞ compensation temperature

temperature control

heat regulation air conditioning automatic control automatic control valves capillary pumped loops chemical reaction control combustion control

∞ control controllers cooling cooling systems cryostats engine control

environmental control environmental engineering exhaust systems

heat shielding heating heating equipment high temperature tests infrared suppression low temperature tests manual control plasma cooling refrigerating

refrigerating machinery remote control

reusable heat shielding space cooling (buildings) space heating (buildings) spacecraft temperature

temperature

thermal control coatings thermal cycling tests thermal insulation thermochromic coatings thermometers thermoregulation thermostats

transpiration ventilation water heating

temperature dependence

DEF The characteristic of a material which is dependent on changes in the ambient temperature.

GS dependence

. temperature dependence heat affected zone

hot corrosion miscibility gap temperature

temperature effects thermal analysis wind tunnel calibration thermal degradation thermal mapping thermal stability thermocapillary migration temperature measuring instruments thermomigration temperature indicators temperature differences temperature instruments thermophoresis USE temperature gradients thermograms measuring instruments temperature distribution temperature indicators . temperature measuring indicating instruments temperature fields instruments temperature measuring GS distribution (property) . . bathythermographs instruments temperature distribution . . optical pyrometers RT air conditioning . . pneumatic probes cooling . . pyrometers temperature instruments cooling systems ... radiation pyrometers USE temperature measuring environmental engineering . . . thermocouple pyrometers instruments field theory (physics) . . temperature probes heat treatment . . thermometers heating temperature inversions . . resistance thermometers isothermal flow ĞS inversions anomalous temperature zones isothermal layers temperature inversions bolometers isotherms air pollution bomb calorimeters ocean temperature atmospheric temperature calorimeters drop calorimeters flame calorimeters flame probes bending birefringence buckling refrigerating satellite temperature temperature temperature thermistors thermocouples thermopiles thermal mapping cracking (fracturing) thermal resources cracks thermal shock creep properties deflection thermal stresses thermography deformation thermostats ventilation displacement transducers vertical distribution distortion water temperature temperature probes failure measuring instruments fatigue (materials) GS temperature effects internal pressure . temperature measuring instruments heat effects temperature probes lapse rate photothermotropism RT temperature mechanical properties . Richardson-Dushman equation meteorological parameters thermocouples thermal effects meteorology thermotropism photoelastic analysis temperature profiles RT ablation plastic deformation RT heat transfer absolute zero pressure temperature chemical effects pressure effects thermal analysis ∞ effects residual stress Ettingshausen effect temperature ratio Saint Venant principle glass transition temperature ratios shear properties GS heat affected zone temperature ratio shrinkage jet blast effects data correlation heat transfer strain gages magnetic effects strain hardening Nernst-Ettingshausen effect temperature strain rate Peltier effects stress analysis temperature scales
UF fahrenheit temperature scale pressure effects stress relaxation stress waves international practical temperature reentry effects stresses Seebeck effect absolute zero structural strain shape memory alloys anomalous temperature zones temperature calibrating solar granulation tensile deformation ∞ scale sterilization effects ∞ tension temperature standards tephigrams temperature dependence temperature torsion thermal buckling thermometers volumetric strain thermal degradation x ray stress analysis thermal dissociation temperature sensitive paints yield strength thermal resistance (added January 2003) DEF Luminescent paints which react differthermal stresses entially to temperature by emitting varying thermogravimetry temperature measurement thermoluminescence pyrometry amounts of visible light. thermometry GS coatings thermophoresis . paints anomalous temperature zones thermoplasticity time temperature parameter bolometers . temperature sensitive paints brightness temperature aerodynamic heating crayons fluorescence temperature fields USE temperature distribution heat transfer gas temperature high temperature luminescence temperature gradients in situ measurement nonintrusive measurement temperature differences ∞ measurement surface temperature GS gradients noise temperature temperature measurement nonintrusive measurement thermal analysis . temperature gradients . thermoclines pyrometers thermochromic coatings atmospheric temperature radiation pyrometers bathythermographs resistance thermometers temperature sensors Chapman-Enskog theory satellite temperature GS temperature sensors convective heat transfer sodar . thermistors isothermal layers sound detecting and ranging anomalous temperature zones isotherms temperature temperature nonisothermal processes temperature sensitive paints ocean temperature thermocouple pyrometers thermocouples tempering

thermography

thermometers

potential gradients

stratification

temperature

heat treatment

. tempering RT annealing

GS

 $\infty$  drawing Tennessee ∞ tests hardening (materials) laser annealing tensile-integrity structures tensegric structures metal working (added January 2001) (added January 2001) normalizing (heat treatment) USE tensegrity structures USE tensegrity structures stress relieving stretching tensiometers tensegrity structures temper (metallurgy) measuring instruments GS (added January 2001) . tensiometers DEF A class of prestressed structures templates cable force recorders whose shape is guaranteed by the interaction lofting RT mechanical measurement between a continuous network of members in molds tension and a discontinuous network of mem- $\infty$  patterns ∞ tension bers in compression. These members can serve (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS simultaneously as sensors, actuators, and load temporal distribution carrying elements. The word tensegrity is a LISTED BELOW) DEF The statistical distribution based on contraction of "tensional integrity". blood pressure time of phenomena, occurrences or events. tensegric structures interfacial tension RT annual variations partial pressure tensile-integrity structures spatial distribution isotensoid structures stretching teleconnections (meteorology) prestressing temperature inversions time dependence smart structures tensile stress ∞ time response structural design ∞ structures tensometers temporal logic measuring instruments GS (added October 1994) tensometers tensile creep DEF A logic that can express properties deformeters mechanical properties GS involving the seqencing of events in time. extensometers creep properties discriminant analysis (statistics) strain gages . tensile creep stress measurement plastic deformation logic programming weight indicators shear creep mathematical logic sequential analysis tensor analysis tensile deformation temporal resolution GS geometry GS deformation . differential geometry tensile deformation temporal resolution . tensor analysis The precision with which an optical elastic deformation relativity instrument or a system differentiates between time intervals. Used for multitemporal analysis. elongation scalars plastic deformation scalers temperature inversions multitemporal analysis tensors GS resolution temporal resolution tensile properties tensor fields spatial resolution GS mechanical properties USE tensors temporal logic tensile properties . tensile strength tensors elastic properties tendencies DEF Arrays of functions which obey certain high strength alloys RT ∞ inclination laws of transformation. A one row or one column ∞ properties tensor array is a vector. Used for tensor fields tendons and transformation tensors. GS anatomy tensile strength tensor fields . musculoskeletal system DEF The property of solid material that intransformation tensors . . muscles dicates its ability to withstand a uniaxial tensile algebra . . tendons . tensors GS mechanical properties connective tissue . stress tensors fibroblasts . tensile properties field theory (physics) tensile strength Jordan form ductility tenite scalars elastic properties tensor analysis cellulose elongation molding materials fiber strength tephigrams high strength Tenma satellite GS diagrams hysteresis . tephigrams (added June 1992) load carrying capacity atmospheric turbulence GS artificial satellites Poisson ratio entropy . scientific satellites residual strength lapse rate . . astronomical satellites resilience . Tenma satellite temperature shear strength temperature inversions Japanese spacecraft ∞ strenath . Tenma satellite thermodynamic properties toughness observatories . astronomical observatories terbium chemical elements . . astronomical satellites tensile stress ... Tenma satellite DEF Normal stress tending to lengthen the . rare earth elements Japanese space program body in the direction in which it acts. . . terbium x ray astronomy ĠS stresses . . terbium isotopes x ray spectra tensile stress metals x ray stars axial stress . rare earth elements . . terbium high strength . . terbium isotopes hoops Tennessee interfacial tension RT terbium compounds GS nations stress intensity factors . United States ∞ tension terbium 155 . Tennessee triaxial stresses Great Smoky Mountains (NC-TN) USE terbium isotopes Tennessee Valley (AL-KY-TN) tensile tests terbium 161 Tennessee Valley (AL-KY-TN) RT destructive tests USE terbium isotopes vallevs fatique tests GS Tennessee Valley (AL-KY-TN) load tests terbium compounds specimen geometry GS rare earth compounds Alabama

static tests

. terbium compounds

Kentucky

RT terbium

terbium isotopes

terbium 155 UF terbium 161

GS chemical elements

. nuclides

. . isotopes

... terbium isotopes

. rare earth elements

. . terbium

. . terbium isotopes

metals

. rare earth elements

. . terbium

... terbium isotopes

TERCOM

Terrain Contour Matching Navigation System

navigation aids

GS

. TERCOM

onboard equipment

. airborne equipment

. TERCOM

. aircraft equipment

. TERCOM

display devices

flight instruments map matching guidance

navigation instruments

∞ svstems

video landmark acquisition and

tracking

terephthalate

terephthalate

. polyethylene terephthalate

carboxylic acids dicarboxylic acids

terminal area energy management
DEF Automated guidance and landing system for the Space Shuttle orbiter.

management GS

. terminal area energy management digital techniques

Space Shuttle orbiters space transportation

spacecraft landing

terminal ballistics

DEF That branch of ballistics dealing with the motion and behavior of projectiles at the termination of their flight, or in striking and penetrating a target. Used for penetration ballistics, projectile penetration, and target penetra-

penetration ballistics projectile penetration target penetration

ballistics GS

terminal ballistics

energy transfer fragmentation impact velocity missiles

penetration

precision guided projectiles

projectiles

Terminal Configured Vehicle Program

DEF NASA Program for determining configurations for short haul transport aircraft, including V/STOL and VTOL aircraft. Used for TCV program.

TCV program GS

programs

. NASA programs

... Terminal Configured Vehicle

Program

aircraft design automatic control automatic flight control automatic landing control electronic control

feedback control

∞ vehicles

terminal facilities GS terminal facilities

ship terminals

artificial harbors

deepwater terminals ∞ facilities

harbors offshore docking

offshore platforms site selection tanker terminals

∞ terminals transportation

wharves

terminal guidance

guidance (motion) GS

terminal guidance

. laser guidance

autonomous docking command guidance

descent trajectories

entry guidance (STS)

glide paths homing

inertial guidance midcourse guidance proportional navigation

reentry

reentry guidance reentry trajectories reentry vehicles rendezvous guidance

spacecraft guidance

terminal velocity

The maximum velocity attainable, especially by a free falling body, under given conditions

GS rates (per time)

. terminal velocity

velocity

. terminal velocity RT gravitation impact velocity

∞ terminals

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) connectors SN

data processing terminals

electric terminals

∞ headers iumpers

outlets

ship terminals terminal facilities

terminating

USE stopping

terminator lines

RT ∞ lines lunar phases

∞ phases . sunrise sunset

terminology RT abbreviations dictionaries

indexing (information science)

nomenclatures thesauri words (language)

terms

indexing (information science) information theory

thesauri

words (language)

ternary alloys alloys GS

. ternary alloys

. Astroloy (trademark)

RT alloying

antiphase boundaries

cluster variation method

ternary systems

RT alloys

binary systems (materials)

solid solutions

∞ systems

ternary systems (digital)

USE digital systems

terpenes

DFF A class of unsaturated organic compounds having the empirical formula C10H15 occurring in most essential oils and oleoresinous plants. Structurally the important terepenes and their derivatives are classified as monocyclic (dipentene), bicylic (pinene), and acyclyic (myrcene).

GS terpenes

. abscisic acid

. azulene

. camphor . mecamylamine

. menthol

turpentine aliphatic hydrocarbons

alkenes

carotenoids

terphenyls phenyls

terphenyls

Terra spacecraft

(added June 1999) DEF First in a series of EOS (Earth Observing System) spacecraft developed to advance the understanding of the ways that the Earth's lands, oceans, air, ice, and life function as a total environmental system. The spacecraft carries five high-resolution instruments: the Advanced Spaceborne Thermal Emission Radiometer (AS-TER), the Clouds and the Earth Radiant Energy System (CERES), the Multi-Angle Imaging Spectroradiometer (MISR), the Moderate Resolution Imaging Spectroradiometer (MODIS), and the Measurements of Pollution in the Troposphere (MOPITT) instrument.

AM-1 (EOS) spacecraft EOS AM-1 spacecraft

artificial satellites

Terra spacecraft

Earth Observing System (EOS)

Terra spacecraft

Aqua spacecraft Aura spacecraft

CERES (experiment) data products

Earth observations (from space) MISR (radiometry) MODIS (radiometry)

remote sensing

terraces (landforms) GS landforms

. terraces (landforms)

. . plateaus . . . Allegheny Plateau (US)

Colorado Plateau (US)

Great Basin (US) . . . mesas

. . . . buttes

. . . piedmonts . Central Piedmont (US)

formations

mountains

terradynamics RT ∞ dynamics Earth surface geodynamics projectiles

terraforming

(added September 1993)

environmental engineering exobiology

sea floor spreading

lunar bases

GS

lunar environment ... Mars (planet) . test chambers manned Mars missions Mercury (planet) . . anechoic chambers Mars (planet) Venus (planet) . . pressure chambers Mars environment celestial mechanics . . . hyperbaric chambers Mars surface Mercury surface ... vacuum chambers planetary environments . reverberation chambers moon planetary atmospheres planetology RT ∞ capsules planetary environments solar system space colonies cryogenic wind tunnels space habitats terrestrial radiation environment models (EXCLUDES ATMOSPHERIC RADIATION AND REFLECTED VISIBLE LIGHT) Earth radiation Venus surface environment simulators environmental control environmental laboratories terrain electromagnetic radiation landscape environmental tests . terrestrial radiation topography thermal vacuum tests atmospheric radiation terrain vacuum tests CERES (experiment) digital elevation models wind tunnels Earth (planet) geomorphology Earth albedo landforms ∞ test equipment Earth radiation budget landmarks (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Earth radiation budget experiment extraterrestrial radiation terrain analysis far infrared radiation checkout equipment UF SATAN (sensor) areenhouse effect testers RT ∞ analyzing change detection infrared radiation testing machines MISR (radiometry) analyzers digital elevation models astrionics near infrared radiation Earth analogs planetary radiation automatic test equipment Earth resources avionics radiation EROS (satellites) capsules tropospheric radiation geographic applications program CEFOAM checkout equipment hologrammetry centrifuges terrier missile mapping multisensor fusion checkout GS missiles dynamometers . antiaircraft missiles nap-of-the-earth navigation Earth terminal measurement system photogrammetry reconnaissance satellite surfaces . . terrier missile electronic equipment tests . surface to air missiles ∞ equipment . terrier missile fatigue testing machines free flight test apparatus frequency analyzers geophysical fluid flow cells Bumblebee project soil mapping multistage rocket vehicles soil sampling solid propellant rocket engines video landmark acquisition and tracking ground support equipment terrorism Hartmann-Sprenger tubes hypersonic test apparatus Terrain Contour Matching Navigation System USE TERCOM (added December 2001) The use of violence, or threat of violence directed at civilian populations with the impact testing machines load testing machines intention of intimidating or coercing a particular terrain following (added February 1995) DEF The flight path of group, organization, or government, often for measuring instruments DEF The flight path of an aircraft, helicopter, or missile at a constant altitude above the terrain ideological or political reasons. monoscopes onboard equipment GS crime or highest obstacle. The altitude constantly . terrorism rocket propelled sleds air piracy aircraft safety samplers changes to conform to the varying height of the simulators terrain and/or obstacles. supersonic test apparatus airport security GS maneuvers biological weapons test facilities . terrain following computer information security test pattern generators navigation test stands explosives detection . air navigation flight safety wind tunnel models ... nap-of-the-earth navigation sabotage wind tunnels . . terrain following security attack aircraft test facilities cruise missiles violence GS test facilities evasive actions **Tertiary Period** anechoic chambers flight envelopes hovering (added June 1989) Central Atlantic Regional Ecol Test low altitude Cenozoic Era Site Tertiary Period engine testing laboratories map matching guidance military helicopters Cretaceous Period environmental laboratories obstacle avoidance Cretaceous-Tertiary boundary . hydraulic test tunnels geochronology . reverberation chambers penetration paleontology . rocket test facilities terrestrial dust belt Quaternary period . test ranges particles . . ballistic ranges tesseral harmonics . . missile ranges . dust . terrestrial dust belt GS analysis (mathematics) . test stands . functional analysis . Transient Reactor Test Facility RT ∞ belts . . harmonic analysis . wind tunnels cosmic dust gegenschein ... tesseral harmonics . . blowdown wind tunnels meteoroid dust clouds harmonics . . combustion wind tunnels micrometeoroids . tesseral harmonics . . cryogenic wind tunnels zodiacal dust satellite perturbation . . hypersonic wind tunnels . . . cascade wind tunnels . . . hotshot wind tunnels terrestrial magnetism test beds . . . plasma jet wind tunnels USE geomagnetism USE test stands shock tunnels . . hypervelocity wind tunnels terrestrial planets

test chambers

GS

DEF Places, sections, or rooms having spe-

cial characteristics where a person or object is

subjected to experiment, as an altitude cham-

ber. Used for environmental chambers.

UF environmental chambers

compartments

cascade wind tunnels

. . . plasma jet wind tunnels

. . low density wind tunnels

. . low speed wind tunnels

. . . hotshot wind tunnels

... shock tunnels

## 976

The four small planets nearest the sun

(Earth, Mercury, Venus, and Mars).

... Earth (planet)

terrestrial planets

celestial bodies . planets

| subsonic wind tunnels   | c       | ⋄ ballistic vehicles   |          | extrapolation   |
|---|---------|--|----------|---|
| rectangular wind tunnels  | c       | ∘ capsules   |          | fatigue tests   |
| slotted wind tunnels  |         | electric motor vehicles  |          | field tests   |
| supersonic wind tunnels   |         | high altitude tests  |          | flight stability tests  |
| transonic wind tunnels  |         | hypersonic vehicles  |          | flight tests  |
| trisonic wind tunnels   |         | launch vehicles  |          | fuel tests  |
| RT ∞ facilities<br>flight simulators  |         | missile tests<br>missiles  |          | full scale tests  |
| laboratories  |         | reentry vehicles   |          | ground tests<br>hardness tests  |
| models  |         | research aircraft  |          | high altitude tests   |
| motion simulators   |         | rocket vehicles  |          | high temperature tests  |
| research facilities   | c       | ∘ spacecraft   |          | impact tests  |
| shock tubes   |         | ∘ tests  |          | in vitro methods and tests  |
| simulators  |         | towed bodies   |          | in vivo methods and tests   |
| solar simulators  | c       | ∘ vehicles   |          | intelligence tests  |
| spacecraft cabin simulators   |         |  |          | laboratories  |
| ∞ test equipment  | testers |  |          | load tests  |
| ∞ tests   | USE     | test equipment   |          | low temperature tests   |
| to at Guin a  | testes  |  |          | lubricant tests   |
| test firing DEF The firing of a rocket engine, either live                                      | GS      | anatomy  | ~        | materials tests   |
| DEF The firing of a rocket engine, either live or static, with the purpose of making controlled | 00      | . genitourinary system   |          | median (statistics)   |
| observations of the engine or of an engine  |         | reproductive systems   |          | missile tests nondestructive tests  |
| component.  |         | sex glands   |          | notch tests   |
| GS firing (igniting)  |         | gonads   |          | orbital space tests   |
| . test firing   |         | testes   |          | patch tests   |
| static firing   |         | . glands (anatomy)   |          | performance tests   |
| RT engine tests   |         | endocrine glands   |          | personality tests   |
| fuel tests  |         | gonads   |          | physiological tests   |
| ground tests  |         | testes   |          | prefiring tests   |
| missile tests   |         | sex glands   |          | preflight analysis  |
| prefiring tests   |         | gonads   |          | prelaunch tests   |
| prelaunch tests   |         | testes   |          | program verification (computers)  |
| rocket firing   | testing |  |          | propellant tests  |
| rocket test facilities  | USE     | tests  |          | proving   |
| static tests  | OOL     | tests  |          | psychological tests   |
| ∞ tests   | testina | machines   |          | qualifications  |
| toot nottorn generators   |         | test equipment   |          | quality   |
| test pattern generators  DEF Image-processing software.   |         | • •  |          | quality control   |
| RT ∞ faults   | testing |  |          | railroad humping tests rank tests   |
| ∞ generators  | GS      | time   |          | reactor startup tests   |
| ∞ patterns  |         | testing time   |          | records   |
| ∞ test equipment  | RT      | burning time   |          | reliability   |
| 1.1   |         | engine tests   |          | resonance testing   |
| test pilots   |         | fatigue tests  |          | Rorschach tests   |
| GS personnel  |         | flight time<br>∘ tests   |          | salt spray tests  |
| . flying personnel  | c       | turnaround (STS)   |          | sampling  |
| pilots (personnel)  |         | windows (intervals)  |          | selection   |
| aircraft pilots   |         | windowo (intervalo)  |          | self tests  |
| test pilots   | ∞ tests |  |          | shock tests   |
| . operators (personnel)   | SN      | (USE OF A MORE SPECIFIC TERM IS  |          | Snellen tests   |
| pilots (personnel)  |         | RECOMMENDEDCONSULT THE TERMS   |          | space electric rocket tests   |
| aircraft pilots<br>test pilots  | UF      | LISTED BELOW) pretests   |          | Space Transportation System flights   |
| RT ∞ pilots   | 0.      | testing  |          | space vehicle checkout program  |
| TCT piloto  | RT      | accelerated life tests   |          | spin tests  |
| test ranges   |         | acceptability  |          | stability tests<br>static tests   |
| GS ranges (facilities)  |         | accuracy   |          | statistical tests   |
| test ranges   |         | adhesion tests   |          | stroking tests  |
| ballistic ranges  |         | altitude tests   |          | tasks   |
| missile ranges  |         | approach and landing tests (STS)   |          | tensile tests   |
| test facilities   |         | bend tests   |          | test facilities   |
| test ranges   |         | captive tests  |          | test firing   |
| ballistic ranges  |         | checkout chemical analysis   |          | test vehicles   |
| missile ranges<br>RT downrange  |         | chemical tests   |          | testing time  |
| downrange measurement   |         | cold flow tests  |          | thermal cycling tests   |
| range safety  |         | cold weather tests   |          | thermal vacuum tests  |
| rocket test facilities  |         | compression tests  |          | ultrasonic tests  |
| Tooker took idomitoo  |         | computational chemistry  |          | vacuum tests  |
| test stands   |         | confidence limits  |          | vibration tests water tunnel tests  |
| DEF Stationary platforms or tables, together  |         | corrosion test loops   |          | wear tests  |
| with any testing apparatus attached thereto, for  |         | corrosion tests  |          | weld tests  |
| testing or proving engines or instruments.  |         | creep tests  |          | wind tunnel stability tests   |
| UF test beds  |         | crew procedures (inflight)   |          | wind tunnel tests   |
| GS test facilities  |         | crew procedures (preflight)  |          | wing flow method tests  |
| test stands   |         | damping tests  |          | x ray inspection  |
| RT engine tests   |         | destructive tests  |          |   |
| flame deflectors  |         | drop tests   |          | balloons  |
| prefiring tests   |         | dynamic tests  | UF       | kite balloons   |
| prelaunch tests   |         |  |          |   |
| rocket test facilities  |         | education  | GS       | expandable structures   |
| ~ test equipment  |         | education electric equipment tests   | GS       | . inflatable structures   |
| ∞ test equipment  |         | education electric equipment tests electronic equipment tests  | GS       | . inflatable structures balloons  |
|   |         | education electric equipment tests electronic equipment tests employment   |          | . inflatable structures balloons tethered balloons  |
| test vehicles   |         | education<br>electric equipment tests<br>electronic equipment tests<br>employment<br>engine tests                        | GS<br>RT | <ul><li>. inflatable structures</li><li>. balloons</li><li> tethered balloons</li><li>meteorological balloons</li></ul> |
|   |         | education electric equipment tests electronic equipment tests employment   |          | . inflatable structures balloons tethered balloons  |
| test vehicles GS test vehicles  |         | education<br>electric equipment tests<br>electronic equipment tests<br>employment<br>engine tests<br>environmental tests | RT       | . inflatable structures . balloons tethered balloons meteorological balloons reels                                      |
| test vehicles GS test vehicles flight test vehicles   |         | education electric equipment tests electronic equipment tests employment engine tests environmental tests errors         | RT       | <ul><li>. inflatable structures</li><li>. balloons</li><li> tethered balloons</li><li>meteorological balloons</li></ul> |

# tethering

pended at altitudes of 120 km from Space RT rocket oxidizers libraries Shuttle orbiters flying at 200-km altitude; control manuals system would permit deployment and retrieval of tetragons subjects the tethered satellites. GS geometry Euclidean geometry GS artificial satellites textiles . tethered satellites . . polygons GS textiles RT . . . tetragons . cotton fibers reels .... parallelograms linen tethering . . . rhomboids . rayon RT orbital rendezvous rectangles clothing reels . . . . squares (mathematics) cotton tetherlines . . . . trapezoids fabrics fibers tetherlines tetrahedrons vapor barrier clothing anchors (fasteners) geometry GS wet spinning ∞ cables Euclidean geometry ∞ lines . . polyhedrons texts tethering . tetrahedrons GS documents towed bodies RT triangles texts umbilical connectors RT format tetrahydrofuran records Tethys DEF In organic chemistry, an intermediate One of the natural satellites of Saturn and a solvent for polyvinyl chloride. Used for textures orbiting at a mean distance of 295,000 kilomebutylene oxides. The structural qualities of surfaces de-ÚF butylene oxides ters termined by the interrelation of their elements. organic compounds celestial bodies GS GS curl (materials) . cyclic compounds
. heterocyclic compounds . natural satellites fineness . . icy satellites Gabor filters . . . furans Tethys mechanical properties . . Saturn satellites . . tetrahydrofuran porosity . Tethys solvents surface properties RT Saturn (planet) tetrahydrofuran RT additives TF-30 engine tetrabutyls ∞ chemical compounds GS engines alkyl compounds plastics GS . air breathing engines tetrabutyls polyvinyl chloride . . gas turbine engines RT dibutyl compounds . . . jet engines organometallic compounds tetranitrotetrazacyclooctane .... turbojet engines USE HMX . . . . . turbofan engines tetrachlorides ..... TF-30 engine halogen compounds tetraphenyls . aircraft engines . chlorine compounds ĠŚ phenyls . . TF-30 engine . . chlorides . polyphenyls . internal combustion engines . tetrachlorides .. tetraphenyls . . gas turbine engines . halides . . . jet engines . . chlorides tetrazoles . . . . turbojet engines GS organic compounds ... tetrachlorides .... turbofan engines . cyclic compounds .... TF-30 engine tetrachloromethane . . heterocyclic compounds . turbine engines USE carbon tetrachloride . . . tetrazoles . . gas turbine engines . . . jet engines tetracyclines tetrodes . . . . turbojet engines GS drugs electron tubes . . . . . turbofan engines . antibiotics pentodes . . . . . TF-30 engine . tetracyclines semiconductor devices organic compounds transistors TF-34 engine . cyclic compounds triodes GS engines . . heterocyclic compounds . air breathing engines ... tetracyclines tetroons . . gas turbine engines superpressure balloons USE . . . jet engines tetrad theory . . . . turbojet engines tetryl RT chromosomes . . . . turbofan engines ĞS explosives miosis . TF-34 engine spores . tetryl nitrogen compounds . aircraft engines ∞ theories . nitro compounds . TF-34 engine tetraethyl orthocarbonates . internal combustion engines . . gas turbine engines carbon compounds organic compounds . amines . . . jet engines . carbonates . . . . turbojet engines . . tetraethyl orthocarbonates . tetryl . . . . turbofan engines propellants . . TF-34 engine tetraethyl orthosilicate . tetryl DEF An oxidation inhibiting coating used on . turbine engines . . gas turbine engines the wing leading edges and nose cap of the texas Space Shuttle. . . . jet engines GS nations adhesives . United States . . . . turbojet engines GS . tetraethyl orthosilicate . . . . turbofan engines . texas Gulf of Mexico . TF-34 engine RT ethyl compounds RT convertible fan-shaft engines Houston (TX) glues Lake Texoma (OK-TX) silicates TF-41 engine Rio Grande (North America) tetrafluorohydrazine GS engines . air breathing engines GS halogen compounds textbooks . fluorine compounds GS documents . . gas turbine engines . . . jet engines . . fluoro compounds . textbooks tetrafluorohydrazine educational resources . . . . turbojet engines hydrazines . textbooks . . . . turbofan engines . . . . . TF-41 engine . aircraft engines . tetrafluorohydrazine education RT handbooks organic compounds knowledge ... TF-41 engine . amines . . tetrafluorohydrazine learning . internal combustion engines

. . gas turbine engines . thematic mappers (LANDSAT) . Schauder fixpoint theorem ... jet engines scanners similarity theorem . . . . turbojet engines . optical scanners Lagrange similarity hypothesis .. turbofan engines . . multispectral band scanners Stokes theorem (vector calculus) .... TF-41 engine thematic mappers (LANDSAT) . uniqueness theorem . turbine engines Landsat 4 virial theorem . . gas turbine engines Landsat 5 hypotheses . . . jet engines remote sensing mathematical logic . . . . turbojet engines thematic mapping ∞ mathematics . . . . turbofan engines Taylor series ..... TF-41 engine thematic mapping theorem proving GS mapping TFX aircraft . thematic mapping theoretical physics USE F-111 aircraft cadastral mapping GS theoretical physics data products . Newton Theory TH-55 helicopter maps . quantum theory Hughes aircraft
. TH-55 helicopter photogeology . Bohr theory photomapping astrophysics V/STOL aircraft photomaps broken symmetry . rotary wing aircraft thematic mappers (LANDSAT) charm (particle physics) . . helicopters electrophysics ... TH-55 helicopter Themis project flavor (particle physics) GS programs geophysics Thailand . projects grand unified theory nations GS ... Themis project naked singularities Thailand nuclear physics RT Asia ∞ physics DEF Optical instruments which consist of a plasma physics thalamus sighting telescope, mounted so that it is free to radio physics GS anatomy rotate around horizontal and vertical axes, and ∞ science . nervous system graduated scales so that the angle of rotation ∞ solid state physics . . central nervous system may be measured. The telescope is usually strange attractors . . . brain fitted with a right angle prism so that the obstring theory . . . . diencephalon server continues to look horizontally into the supergravity . . . . . thalamus eyepiece, what ever the variation of the elevasupersymmetry tion angle. unified field theory thallium GS measuring instruments Yang-Mills theory chemical elements GS . optical measuring instruments . thallium . . transits . . thallium isotopes ∞ theories ... theodolites (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN metals ... cinetheodolites . thallium optical equipment
. optical measuring instruments . thallium isotopes Abrikosov theory RT thallium compounds assumptions . . transits ... theodolites atomic theory thallium alloys automata theory ... cinetheodolites GS alloys BCS theory sextants . thallium alloys Bellman theory bending theory Theodorsen transformation thallium compounds Bessel-Bredichin theory airfoil profiles RT ∞ metal compounds bimetric theories complex variables conformal mapping coordinate transformations thallium Bogoliubov theory Bohr theory thallium isotopes
GS chemical elements Born-Infeld theory Joukowski transformation catastrophe theory pressure distribution . nuclides Chapman-Enskog theory . . isotopes communication theory theorem proving . thallium isotopes control theory
Crocco-Lee theory problem solving GS . thallium theorem proving . . thallium isotopes Debye-Huckel theory decision theory proving metals theorem proving . thallium density functional theory artificial intelligence . . thallium isotopes diffusion theory computer programming predicate calculus dynamo theory thawing Dyson theory theorems USE melting Eyring theory THC (oceanography) theorems field mode theory (added February 2002) UF lemmas field theory (algebra) USE thermohaline circulation GS theorems field theory (physics) addition theorem finite difference theory Bayes theorem flow theory fluctuation theory Bernoulli theorem (added January 1996) DEF A natural satellite of Jupiter orbiting at binomial theorem Foster theory a mean distance of 221,900 kilometers. Castigliano variational theorem game theory celestial bodies duality theorem gauge theory . natural satellites equipartition theorem geometrical theory of diffraction . . Jupiter satellites existence theorems Gestalt theory Floquet theorem Glauber theory . . Thebe RT Jupiter (planet) Gauss-Markov theorem goal theory Hellmann-Feynman theorem graph theory thematic mappers (LANDSAT) Kakutani theorem gravitation theory DEF Landsat multispectral scanners de-Lebesgue theorem Griffith crack signed to acquire data to catagorize the Earth's Liouville theorem group theory surface. Particular emphasis was placed on Michell theorem Hansen lunar theory agricultural applications and land use. Pomeranchuk theorem Heisenberg theory

Poynting theorem

reciprocal theorems

reciprocity theorem Richards theorem

Riesz theorem

GS optical equipment

. optical scanners

remote sensors

. multispectral band scanners

... thematic mappers (LANDSAT)

Hill lunar theory homotopy theory Hueckel theory

information theory

hypotheses

Jeans theory kinetic theory Kolmogorov theory learning theory Malkus theory Manning theory matrix theory Michaelis theory mixing length flow theory molecular theory momentum theory **Newton Theory** nonadiabatic theory number theory numerical differentiation Opik theory orthogonal multiplexing theory particle theory perturbation theory physical optics piston theory plate theory population theory potential theory probability theory quantum chromodynamics quantum theory queueing theory Reissner theory relativistic theory S matrix theory saddle points (game theory) set theory shell theory spectral theory statistical decision theory strong interactions (field theory) Sturm-Liouville theory switching theory tetrad theory transport theory vinti theory weak interactions (field theory) Yang-Mills theory Young-Helmholtz theory therapy . chemotherapy . gene therapy . massaging . psychotherapy

# therapy

. radiation therapy

RT cures

diseases

healing medical equipment

patients respirators skin grafts

# thermal absorption

energy absorption

. thermal absorption . polar cap absorption

RT ablation

∞ absorption

atmospheric attenuation

charring gray gas heat sinks pyrolysis temperature

thermal accommodation coefficients

USE accommodation coefficient

thermal agitation USE thermal energy

### thermal analysis

DEF A general term covering a group of related techniques whereby the dependence of the parameters of any physical property of a substance or temperature is measured. Used for differential thermal analysis and DTA (analysis).

differential thermal analysis DTA (analysis)

RT ∞ analyzing heat transmission temperature temperature gradients temperature profiles temperature sensitive paints

# thermal barriers (plasma control)

 $RT \, \infty \, barriers$ fusion reactors mirror fusion plasma control tandem mirrors

#### thermal batteries

GS electric generators . direct power generators . . primary batteries ... thermal batteries electrochemical cells

. electric batteries . . primary batteries

. . thermal batteries alkaline batteries dry cells

#### thermal blooming

laser beam defocusing thermal defocusing GS thermal lensing

. thermal blooming

laser cutting laser heating laser outputs lasers photon beams temperature

# thermal boundary layer

boundary layers GS

thermal boundary layer

hypersonic boundary layer laminar boundary layer Rayleigh-Benard convection temperature turbulent boundary layer

# thermal buckling

buckling GS

thermal buckling

expansion temperature temperature effects thermal expansion

# thermal comfort

DEF That condition which expresses satisfaction with the thermal environment and which is measured by such factors as air temperature, relative humidity, air velocity, etc.

RT heat stroke temperature thermal environments

# thermal conductivity

DEF Time rate of unidirectional heat transfer per unit area, in the steady-state, between parallel planes separated by unit distance, per unit difference of temperature of the planes.

GS thermodynamic properties

thermophysical properties

. . thermal conductivity

transport properties

## thermal conductivity

air conductivity atmospheric conductivity conductive heat transfer ∞ conductivity

Fourier law hot-wire flowmeters Lewis numbers specific heat temperature thermohydraulics

# thermal conductivity gages

(GAGES FOR MEASURING THERMAL CONDUCTIVITY--EXCLUDES GAGES USING THERMAL CONDUCTIVITY TO MEASURE OTHER PROPERTIES OR VARIABLES) measuring instruments GS

. thermal conductivity gages

RT temperature

# thermal conductors

GS conductors

. thermal conductors

RT ∞ conduction conductive heat transfer electric conductors temperature

### thermal control coatings

GS coatings

thermal control coatings

RT ablative materials  $\infty$  control heat shielding reentry shielding reusable heat shielding temperature temperature control thermochromic coatings

thermal convection

USE free convection

thermal currents

USE convective flow

# thermal cycling tests

closed cycles cooling environmental tests fatigue tests heating temperature temperature control

thermodynamic properties

# thermal decomposition

The breaking apart of complex molecules into simpler units by the application of heat.

GS chemical reactions

# . thermal decomposition

. pyrolysis decomposition

### . thermal decomposition . pyrolysis

ablation endothermic reactions

exothermic reactions temperature thermochemistry thermogravimetry

thermal defocusing

USE thermal blooming

# thermal degradation

DEF Impairment of properties caused by exposure to heat.

degradation GS

# thermal degradation

pyrolysis sterilization effects temperature temperature dependence temperature effects

# thermal diffusion

GS diffusion

. thermal diffusion

thermodynamic properties . thermophysical properties

# thermal diffusion

RT Chapman-Enskog theory  $\infty$  conduction

convective flow electron diffusion gas heating gaseous diffusion heat transfer Kirkendall effect Peclet number ∞ separation Soret coefficient surface diffusion temperature

thermochemistry

thermohydraulics viscosity

#### thermal diffusivity

DEF The ratio of thermal conductivity of a substance to the product of its density and specific heat. Common units for this property are sq cm/s or sq ft/h.

- GS thermodynamic properties thermophysical properties
  - . thermal diffusivity
  - transport properties thermal diffusivity

photothermal deflection spectroscopy temperature

viscosity

#### thermal dissociation

chemical reactions GS

thermal dissociation

dissociation

. thermal dissociation

cracking (chemical engineering)

decomposition degradation gas dissociation heat of dissociation hydrogen production ionization plasmas (physics) temperature

thermal effects

USE temperature effects

thermal efficiency

USE thermodynamic efficiency

temperature effects

# thermal emission

DEF The process by which a body emits electromagnetic radiation as a consequence of its temperature only.

emission

# . thermal emission

. thermionic emission

electron emission emissivity

exhaust emission incandescence infrared absorption temperature

thermal energy

thermal agitation RT cogeneration

energy

free energy

geothermal energy conversion

geothermal resources

heat of fusion

heat of solution

internal energy kinetic energy

lattice vibrations

photothermal conversion

solar thermal electric power plants

temperature

thermophotovoltaic conversion

thermal energy storage USE heat storage

# thermal environments

environments

. thermal environments

adiabatic conditions

aerospace environments

heat stroke

high temperature environments

life support systems

low temperature environments

lunar environment planetary environments

satellite temperature spacecraft environments

temperature

thermal comfort

thermal expansion

The increase in the dimensions or the volume of a body due to change in temperature.

expansion GS

thermal expansion

thermodynamic properties

thermal expansion

Boussinesq approximation

dilatometry

extensometers Gruneisen constant

heat transfer

high temperature tests

low temperature tests

neel temperature

∞ physical properties temperature

thermal buckling

thermophysical properties warpage

thermal fatigue

DEF In metals, fracture resulting from the presence of temperature gradients which vary with time in such a manner as to produce cyclic stresses in a structure.

high temperature fatigue

GS fatigue (materials)

thermal fatigue

high temperature environments

metal fatigue temperature

thermal gravimetry

USE thermogravimetry

# thermal instability

DEF The conditions of temperature gradient, thermal conductivity, and viscosity which lead to the onset of convection in a fluid.

thermodynamic properties GS

thermal instability

clear air turbulence combustion stability

magnetohydrodynamic stability

pyrolysis sputtering

stellarators temperature

thermal insulation

DEF A material applied to reduce the flow of heat.

insulation

thermal insulation

air conditioning Amberlite (trademark)

asbestos

cork (materials)

cryogenic fluid storage

heat

heat shielding

heat sinks heat transfer

heat transmission

heating equipment reentry shielding

refractories

refractory coatings

temperature

temperature control

Trombe walls

thermal lenses

(added November 1998)

USE thermal lensing

thermal lensing

(added November 1998) thermal lenses

thermal lensing GS

. thermal blooming RT atmospheric optics

focusing laser beams

photothermal deflection spectroscopy

wave front deformation

#### thermal mapping

mapping

. thermal mapping

aerial reconnaissance

Earth resources geothermal anomalies

geothermal resources Heat Capacity Mapping Mission

infrared radiometers infrared scanners isothermal layers

isotherms photomapping planetary mapping

quantum well infrared photodetectors

temperature

temperature distribution temperature gradients thermography

# thermal neutrons

DEF Neutrons in thermal equilibrium with the medium in which they exist. Used for slow neutrons.

slow neutrons

nuclear radiation

. thermal neutrons

particles

. elementary particles . . fermions

. . . neutrons

. thermal neutrons . neutral particles

. . neutrons

. . thermal neutrons

baryons fast neutrons nuclear reactors

temperature thermalization (energy absorption)

# thermal noise

The noise at radiofrequency caused by thermal agitation in a dissipative body. Also called Johnson noise.

GS

elastic waves . sound waves

. . noise (sound)

. thermal noise

electromagnetic interference

. radio frequency interference . . electromagnetic noise

... white noise

. . . thermal noise

RT channel noise electromagnetic noise measurement

noise temperature shot noise

# temperature

thermal plasmas

GS particles

. charged particles . . energetic particles

. . . plasmas (physics)

.... thermal plasmas . corpuscular radiation

. . energetic particles

... plasmas (physics) ... thermal plasmas

electron plasma high temperature plasmas plasma generators plasma temperature

# thermal pollution

DEF Environmental temperature rise due to waste heat disposal.

pollution

thermal pollution biological effects

temperature

coastal ecology environment effects environment pollution environmental quality

environmental surveys

environments

heat transfer lakes liquid cooling marine biology nuclear reactors ocean temperature oceans plankton pollution transport seas temperature water pollution

water temperature

thermal power

USE turbogenerators

thermal properties

USE thermodynamic properties

#### thermal protection

protection GS

thermal protection

ablative materials

carbon-carbon composites heat shielding

Ludox (trademark) radiation protection reentry shielding

reusable heat shielding temperature

#### thermal radiation

(EMITTED AS THE RESULT OF THERMAL EXCITATION OF MOLECULES)

The electromagnetic radiation emitted by any substance as the result of the thermal excitation of its molecules. Thermal radiation ranges in wavelength from the longest infrared radiation to the shortest ultraviolet radiation.

electromagnetic radiation

# . thermal radiation

- . . black body radiation
- . phonon beams

concentrators

greenhouse effect

infrared radiation

light (visible radiation) near infrared radiation

nongray gas

nonthermal radiation

Plancks constant

planetary radiation

∞ radiation

radio waves

sky radiation solar radiation

sunlight

temperature

thermodynamic properties

ultraviolet radiation

# thermal reactors

nuclear reactors GS

. thermal reactors

RT ∞ reactors temperature

# thermal resistance

DEF The extent to which a material retains useful properties as measured during exposure of the material to a specified temperature and environment for a specified time. Used for heat

heat resistance GS

mechanical properties

thermal resistance

carbon-carbon composites

∞ high resistance

high temperature lubricants

high temperature tests 
∞ low resistance

oxidation

oxidation resistance

∞ resistance specific heat

temperature

temperature effects

thermodynamic properties

#### thermal resources

GS heat sources

. thermal resources

. . geothermal resources

. . geysers resources

. Earth resources . . thermal resources

. . . geothermal resources

. . . geysers

agrometeorology

atmospheric temperature

crop growth

crop vigor

geothermal technology resources management

temperature

temperature distribution

thermal shielding USE heat shielding

#### thermal shock

DEF The development of a steep temperature gradient and accompanying high stresses within a structure.

RT cooling heating

high temperature tests

∞ shock

shock resistance

temperature

temperature distribution thermodynamic properties

# thermal simulation

GS simulation

environment simulation

. thermal simulation RT altitude simulation

solar simulation

space environment simulation

temperature

thermal sinks

USE heat sinks

## thermal stability

Resistance to permanent changes in DFF property caused soley by heat.

UF thermostability

GS stability

. thermal stability thermodynamic properties . thermophysical properties

thermal stability

dimensional stability

high temperature tests low temperature tests storage stability

surface stability

temperature

temperature dependence

### thermal stresses

(EXCLUDES BIOLOGICAL STRESSES)
Stresses in metal, resulting from non-SN uniform temperature distribution.

stresses

thermal stresses

RT cooling

fatigue (materials) heating

temperature temperature distribution temperature effects

### thermal vacuum tests

GS vacuum tests

thermal vacuum tests

environmental tests high altitude environments

temperature test chambers

∞ tests

vacuum chambers

# thermalization (energy absorption)

GS energy absorption

. moderation (energy absorption)

. . thermalization (energy absorption)

. neutron thermalization RT thermal neutrons

#### thermicons

GS electron tubes

. camera tubes

. . vidicons

. . . return beam vidicons

.. thermicons

. image tubes

. thermicons

optical equipment

. image converters

. . image tubes

... thermicons

# thermionic cathodes

GS electrodes

. cathodes

. . tube cathodes

. . . thermionic cathodes

emitters

thermionic cathodes

hot cathodes

thermionic conversion systems

USE thermionic power generation

# thermionic converters

GS electric generators

. direct power generators

. . thermionic converters

... SNAP 13 . . solar blankets

cesium diodes cesium plasma

fuel cells

ion production rates magnetohydrodynamic generators

plasma power sources radioisotope batteries

SNAP

solar cells thermoelectric generators

# thermionic diodes

GS

electron tubes . thermionic diodes

. cesium diodes

electronic equipment

. diodes . . thermionic diodes

. cesium diodes

Child-Langmuir law RT perveance

semiconductor diodes

# thermionic emission

Direct ejection of electrons as the result of heating the material, which raises electron energy beyond the binding energy that holds the electron to the material. Used for

Richardson-Dushman equation. Richardson-Dushman equation

emission

. particle emission

thermionic emission . thermal emission

. thermionic emission electron emission ion emission thermoelectricity work functions

# thermionic emitters

GS emitters

. thermionic emitters

#### thermionic power generation thermionic conversion systems

RT ∞ conversion

SNAP

SNAP 13

thermionic reactors USE ion engines

nuclear rocket engines

#### thermionics

DEF The study of the emission of electrons by heat.

RT cathodes

electron emission

∞ electronics ion emission

#### thermistors

Electron devices employing the temperature dependent change of resistivity of a semiconductor.

GS attenuators

- . resistors
- ... thermistors

electronic equipment

. solid state devices

. . semiconductor devices

... thermistors

temperature sensors

. thermistors

radiometers

temperature measuring instruments

varistors

DEF Fire-hazardous mixtures of ferric oxide and powdered aluminum; upon ignition with a magnesium ribbon, the mixtures reach temperatures up to 4000 degrees F (sufficient to soften

aluminum oxides Auger spectroscopy barium ion clouds copper oxides ignition temperature

pyrotechnics

# thermoacoustic effects

(added May 2000)

DEF Phenomena associated with the combination of temperature, pressure and displacement oscillations caused by acoustic waves interacting with solid boundaries, such as the walls of a tube or a "stack".

acoustic excitation acoustic instability RT

acoustics

acousto-optics

combustion stability

∞ effects

heat transfer

sound waves

thermoacoustic refrigerators

thermophysical properties

# thermoacoustic refrigerators

(added May 2000)

Cooling devices in which intense sound waves in pressurized resonant cavities are used to generate temperature gradients in an array of parallel plates in the interior of a tube that serves as a heat exchanger and in which heat is drawn away by a heat sink.

refrigerating machinery

. refrigerators

. thermoacoustic refrigerators

cooling systems refrigerating

thermoacoustic effects

# thermobalances

measuring instruments

- . indicating instruments
- . . weight indicators
- . . thermobalances

RT thermogravimetry

# thermocapillary migration

(added September 1999)

Phenomenon where droplets (or bubbles) in a host fluid with a uniform temperature gradient migrate to the hot end of the host fluid because of the temperature dependence of the interfacial energy of the droplets.

bubbles capillary flow

drops (liquids) electromigration interfacial tension

Marangoni convection microgravity

space processing temperature gradients thermomigration

# thermochemical properties

chemical properties

#### thermochemical properties

. . heat of combustion

. . heat of dissociation

. . heat of formation . . heat of solution

. . latent heat

... heat of fusion

. heat of vaporization thermodynamic properties

# . thermochemical properties

. . heat of combustion

. . heat of dissociation

.. heat of formation

. . heat of solution

. . latent heat

. . . heat of fusion

. . heat of vaporization

RT heat balance ∞ properties

#### thermochemistry

DEF A branch of chemistry that treats the relations of heat and chemical changes.

# thermochemistry

. aerothermochemistry

combustion chemistry

chemical engineering chemical reactions

∞ chemistry

combustion physics

enthalpy entropy

heat

heat balance

heat of dissociation

heat of fusion heat of solution

heat treatment

physical chemistry

propellant chemistry

pyrometallurgy

thermal decomposition

thermal diffusion

thermodynamic properties thermodynamics

thermogravimetry

thermophysical properties

water splitting

# thermochromatic materials

# thermochromatic materials

. thermochromic coatings

color

colorimetry

∞ inorganic materials

∞ materials

optical properties

organic materials solids

# thermochromic coatings

(added March 2005)

DEF Spectrally selective coatings that change their transmission and relfection properties with temperature.

thermochromic films

coatings

. thermochromic coatings

smart materials

. thermochromic coatings thermochromatic materials

. thermochromic coatings energy absorption films

energy conservation light transmission

reflectance

selective surfaces temperature control temperature sensitive paints thermal control coatings

thin films transmittance vanadium oxides

thermochromic films

(added March 2005)

USE thermochromic coatings

#### thermoclines

RT

gradients

. temperature gradients

. thermoclines

oceanography sea water

sound transmission

stratification surface layers

surface temperature thermohaline circulation

underwater acoustics

### thermocouple pyrometers

measuring instruments

. temperature measuring instruments

. . pyrometers

. thermocouple pyrometers

galvanometers

potentiometers (instruments) radiation pyrometers

resistance thermometers

temperature measurement

thermocouples thermoelement ammeters

# thermocouples

Devices which convert thermal energy directly into electrical energy. In its basic form it consists of two dissimilar metallic electrical conductors connected in a closed loop. Each junction forms a thermocouple.

#### thermocouples GS

. thermopiles

constantan

indicating instruments Manganin (trademark)

Peltier effects

potentiometers (instruments)

Seebeck effect temperature measurement

temperature measuring instruments temperature probes thermocouple pyrometers

thermoelectric generators thermoelectricity

# thermodynamic coupling

GS coupling

thermodynamic coupling BCS theory

electron phonon interactions superconductors (materials)

# thermodynamic cycles

cycles

. thermodynamic cycles . . Brayton cycle

Carnot cycle Otto cycle

Rankine cycle . Stirling cycle

adiabatic conditions closed cycles

heat engines internal combustion engines

laser propulsion

∞ strokes thermodynamics

thermodynamic efficiency In thermodynamics, the ratio of the work done by a heat engine to the total heat supplied by the heat source. Used for thermal

efficiency. , thermal efficiency

efficiency GS

. thermodynamic efficiency

983

# thermodynamic equilibrium

RT combustion efficiency ∞ physical properties thermoelectric materials compressor efficiency Prandtl number propellant properties thermoelectric conversion systems engines exergy properties USE thermoelectric power generation heat sources Seebeck effect thermoelectric cooling internal combustion engines solubility nozzle efficiency temperature Ettingshausen coolers GS power efficiency tephigrams cooling . thermoelectric cooling propulsion system performance thermal cycling tests propulsive efficiency thermal radiation cryogenics specific impulse thermal resistance Ettingshausen effect heat pumps temperature thermal shock thermodynamics Peltier effects thermochemistry refrigerating thermodynamics thermoluminescence refrigerating machinery thermodynamic equilibrium thermodynamics zero point energy A very general result from statistical thermoelectricity mechanics which states that if a system is in thermomagnetic cooling equilibrium, all processes which can exchange thermodynamics Study and application of principles deenergy must be exactly balanced by the reverse thermoelectric generators scribing the relation of heat transfer to various process so that there is no net exchange of GS electric generators forms of energy, and the behaviors of physical systems where temperature is a significant feature. Used for heat equations, thermomechanics, and thermophysics.

UF heat equations . direct power generators acid base equilibrium ... thermoelectric generators adiabatic conditions chemical equilibrium SNAP 3 ... SNAP 7 ∞ equilibrium SNAP 9A SNAP 10A heat of dissociation thermomechanics isentropic processes thermophysics SNAP 11 GS thermodynamics isochoric processes SNAP 15 isoenergetic processes aerothermodynamics SNAP 17 isothermal processes combustion physics SNAP 19 nonequilibrium thermodynamics liquid-vapor equilibrium SNAP 21 local thermodynamic equilibrium aerodynamics SNAP 23 statistical mechanics ∞ dynamics SNAP 27 engines SNAP 29 enthalpy thermodynamic properties solar sea power plants entropy thermal properties RT ASTEC solar turboelectric generator equations GS thermodynamic properties fuel cells equations of state . enthalpy ∞ generators ∞ equilibrium . . Gibbs free energy magnetohydrodynamic generators nuclear auxiliary power units ergodic process . . heat of dissociation exergy .. heat of formation photoelectric generators radioisotope batteries fluid mechanics .. heat of solution free energy . . latent heat SNAP gas dynamics ... heat of fusion solar cells heat ... heat of vaporization solar generators heat of fusion . entropy space station power supplies heat of solution . free energy thermionic converters heat transfer . . Gibbs free energy thermocouples internal energy . surface energy thermoelasticity irreversible processes . thermal expansion thermoelectricity isotherms . thermal instability Joule-Thomson effect . thermochemical properties thermoelectric materials Kirchhoff law of radiation . . heat of combustion RT ∞ materials mechanical engineering . . heat of dissociation semiconductors (materials) molecular relaxation . . heat of formation thermoelasticity Mollier diagram . . heat of solution thermoelectricity nonadiabatic conditions . . latent heat nongray gas ... heat of fusion Thermoelectric Outer Planet Spacecraft USE TOPS (spacecraft) nonisothermal processes . heat of vaporization Onsager relationship . thermophysical properties thermoelectric power generation
UF thermoelectric conversion systems paths . . critical point Pfaff equation . . critical pressure photothermal conversion RT ∞ conversion .. critical temperature physical chemistry emissivity nuclear auxiliary power units plasma physics . fusibility . . heat of solution radioisotope heat sources plasmas (physics) SNAP polytropic processes . . latent heat thermoelectricity Rankine cycle . heat of fusion Rayleigh equations . . . heat of vaporization thermoelectric spacecraft steam melting points USE TOPS (spacecraft) thermochemistry . . pyroelectricity thermodynamic cycles specific heat thermoelectricity thermodynamic efficiency supercritical pressures Thomson effect thermodynamic properties thermal conductivity Ettingshausen effect thermoelectric cooling . . thermal diffusion Peltier effects unsteady state thermal diffusivity Seebeck effect . . thermal stability thermionic emission vapor pressure thermoelasticity thermocouples . volatility DEF Dependence of the stress distribution thermoelectric cooling RT chemical properties of an elastic solid on its thermal state, or of its thermoelectric generators diffusivity thermal conductivity on the stress distribution. thermoelectric materials GS mechanical properties emittance thermoelectric power generation . elastic properties ∞ equilibrium thermopiles . . thermoelasticity transport properties exergy . . . aerothermoelasticity heat aeroelasticity heat balance thermoelement ammeters high temperature tests Joule-Thomson effect aerothermodynamics measuring instruments

hydroelasticity

thermoelectric generators

. ammeters

. . thermoelement ammeters

optical properties

thermopiles RT thermocouple pyrometers specific material properties. mesophiles thermomechanical treatment psychrophiles thermograms . hot pressing recording instruments thermophilic plants USE . hot isostatic pressing temperature measuring heat affected zone GS plants (botany) instruments heat treatment . thermophilic plants ∞ metallurgy . . blue green algae thermography microstructure . . . anabaena DEF Technique employing heat transfer . . . Microcystis plastic deformation transients. . Nostoc quenching (cooling) infrared imagery nondestructive tests RT RT algae ∞ treatment quantum well infrared photodetectors temperature distribution thermophoresis thermomechanics USE thermodynamics A process in which particles migrate in temperature measurement a gas under the influence of forces created by a thermal mapping thermometers temperature gradient. Devices for measuring temperature. RT aerosols thermogravimetry measuring instruments deposition thermal gravimetry chemical analysis . temperature measuring instruments diffusion RT thermometers particle diffusion dehydration particle motion . . resistance thermometers pyrolysis particle size distribution temperature control temperature effects thermal decomposition ∞ separation temperature measurement temperature scales temperature effects thermobalances temperature gradients thermochemistry thermometry USE temperature measurement thermophotovoltaic conversion thermohaline circulation (added May 1995) (added February 2002) thermomigration DEF A technique for efficiently converting DEF Any water movements, including con-A technique for doping semiconductors heat or solar energy to electrical energy using vection and large-scale currents, due to the joint in which exact amounts of known impurities are heated surfaces coated with a selective emitter action of temperature and salinity. matetrial whose photon emission peaks sharply made to migrate from the cool side of a wafer of THC (oceanography) circulation pure semiconductor material to the hotter side in a narrow wavelength. GS when the wafer is heated in an oven. energy conversion . water circulation electromigration . solar energy conversion . thermohaline circulation heat transfer . . photothermal conversion RT ocean currents temperature gradients ... thermophotovoltaic conversion ocean dynamics . . photovoltaic conversion thermocapillary migration ocean temperature salinity thermophotovoltaic conversion thermonuclear energy emitters sea water USE thermonuclear power generation energy conversion efficiency thermoclines solar cells upwelling water thermonuclear explosions spacecraft power supplies explosions thermal energy thermohydraulics . nuclear explosions convective heat transfer thermonuclear explosions thermophysical properties fluid dynamics fluid flow aerial explosions thermodynamic properties Argus project . thermophysical properties
. . critical point heat transmission fission weapons ∞ hydraulics nuclear devices . . critical pressure hydrodynamics nuclear vulnerability . . critical temperature laminar heat transfer underground explosions . . emissivity radiative heat transfer underwater explosions . . fusibility thermal conductivity .. heat of solution thermal diffusion thermonuclear power generation . . latent heat thermonuclear energy
nuclear electric power generation
thermonuclear power generation
Astron thermonuclear reactor turbulent heat transfer ... heat of fusion GS . heat of vaporization thermoluminescence . . melting points GS emission pyroelectricity . light emission controlled fusion specific heat . . luminescence electric generators supercritical pressures . . thermoluminescence ∞ energy thermal conductivity temperature effects pinch effect thermal diffusion thermodynamic properties plasma generators . . thermal diffusivity stellarators . . thermal stability thermomagnadynamics zeta thermonuclear reactor . . vapor pressure thermomagnetic effects . volatility thermonuclear propulsion RT Peltier effects thermomagnetic cooling USE nuclear propulsion properties Nernst generators Seebeck effect GS cooling thermonuclear reactions surface energy thermomagnetic cooling GS nuclear reactions thermal expansion cryogenics . thermonuclear reactions thermoacoustic effects Ettingshausen effect . . nuclear fusion thermochemistry thermoelectric cooling . controlled fusion thermophysics
USE thermodynamics Astron thermonuclear reactor thermomagnetic effects high energy interactions thermomagnadynamics magnetohydrodynamics thermomagnetism pinch effect thermopiles magnetic properties plasmas (physics) Transducers for converting thermal enthermomagnetic effects proton-proton reactions ergy directly into electrical energy, composed of RT ∞ effects

Q values (nuclear physics)

zeta thermonuclear reactor

radioactive decay

Scylla stellarators

algae

funai

thermophiles

Ettingshausen effect

USE thermomagnetic effects

thermomechanical treatment

thermomagnetism

Nernst-Ettingshausen effect

cesses with heat treatments in order to obtain

Combination of material-forming pro-

GS thermocouples
. thermopiles
transducers
. thermopiles
RT Dicke radiometers

compact units.

pairs of thermocouples which are connected

either in series or in parallel. Batteries of thermocouples connected in series to form single

indicating instruments resins . theta pinch temperature measuring instruments . synthetic resins laser plasma interactions thermoelectricity . . thermosetting resins plasma compression ... epoxy resins rotating plasmas thermoplastic films . . . . phenolic epoxy resins screw pinch DEF Materials with a linear macromolecular . . . furan resins zeta pinch structure that will repeatedly soften when heated .... polyamide resins and harden when cooled. . Kevlar (trademark) thiamine GS plastics . . . . Nylon (trademark) vitamin B . synthetic resins . . . phenolic resins organic compounds . . thermoplastic resins . coenzymes . . . . micarta thermoplastic films phenolic epoxy resins . . thiamine Bakelite (trademark) . cyclic compounds . . heterocyclic compounds . synthetic resins composite materials . . thermoplastic resins formica . thiamine ... thermoplastic films vitamins glass fiber reinforced plastics RT ∞ films laminates . thiamine polyester resins thermoplastic resins thiazine (trademark) reinforced plastics GS dyes GS plastics silicone resins thiazine (trademark) . synthetic resins thermoplastic resins . . thermoplastic resins nitrogen compounds . thiazine (trademark) ... PEEK thermosiphons organic compounds . . . quinoxalines regenerators GS . cyclic compounds . . . thermoplastic films thermosiphons convective heat transfer . . heterocyclic compounds resins . synthetic resins free convection thiazine (trademark) . . thermoplastic resins ∞ radiators sulfur compounds ...PEEK . thiazine (trademark) siphoning . . . quinoxalines thick films thermosphere . . thermoplastic films (ALTITUDES ABOVE APPROXIMATELY 80 KM) RT electronic packaging acrylic resins SN glass fiber reinforced plastics ∞ films Earth atmosphere integrated circuits polyethylenes . upper atmosphere microminiaturization polymer blends .. thermosphere printed circuits polystyrene . . turbopause semiconducting films thermoplasticity chemosphere superconducting films thermosetting resins Earth ionosphere thin films vulcanized elastomers Earth magnetosphere thick plates

DEF Plates of steel or other material that exosphere thermoplasticity
GS mechanical properties heterosphere homosphere . plastic properties . . thermoplasticity are over two inches thick. The exact definition of dimensions that constitute thickness varies. thermostability GS structural members Bouguer law USE thermal stability . plates (structural members) temperature effects . thick plates thermoplastic resins thermostats RT flat plates control equipment metal plates thermoreceptors . regulators Mindlin plates GS anatomy . thermostats ∞ plates . sense organs switches ∘ sheets thermoreceptors . electric switches thickness receptors (physiology) . thermostats thin plates thermoreceptors RT automatic control body temperature controllers thick walls sensitometry cryostats walls skin (anatomy) temperature control thick walls thermoregulation temperature measuring instruments boiler plate bulkheads thermoregulation thermotropism reinforcement (structures) A mechanism by which mammals and USE anisotropy structural members birds balance heat gain and loss in order to temperature effects thin walls maintain a constant body temperature. Used for wall pressure body temperature regulation. thermoviscoelasticity wall temperature mechanical properties
. elastic properties body temperature regulation body temperature ∞ thickeners cold tolerance viscoelasticity (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) thickeners (equipment) hibernation . . thermoviscoelasticity homeostasis RT irreversible processes hyperthermia stress-strain-time relations hypothermia thickeners (materials) metabolism thesauri physiology indexes (documentation) thickeners (equipment) regulatory mechanisms (biology) GS separators indexing (information science) temperature control information retrieval . classifiers thermoreceptors KWIC indexes . thickeners (equipment) nomenclatures coalescing thermosetting resins space glossaries precipitators plastics terminology ∞ thickeners . synthetic resins terms . . thermosetting resins thickeners (materials) words (language)

RT additives

thickness

gels

greases

∞ thickeners

thickness

. boundary layer thickness

∞ materials

## 986

... epoxy resins

. . . furan resins

. . . . micarta

. . . . polyamide resins

. . . . Kevlar (trademark)

.... phenolic epoxy resins

. Nvlon (trademark) . . . phenolic resins

phenolic epoxy resins

theses

GS

RT

theta pinch

documents

hypotheses

pinch effect

. plasma pinch

theses

| ОТ           | -i-f-ilfil                             | 4:6                                | a b a a a b  |
|--------------|--|------------------------------------|--|
| RT           | airfoil profiles                       | rectifiers                         | phenols  |
|              | depth                                  | semiconducting films               |  |
|              | diameters                              | silicon films                      | thiophenes   |
|              | dimensions                             | solid state devices                | (added January 1995)                               |
|              |  |                                    | GS organic compounds                               |
|              | film thickness                         | ∞ solid state physics              |  |
|              | length                                 | sputtering gages                   | . cyclic compounds                                 |
|              | optical thickness                      | squeeze films                      | heterocyclic compounds                             |
|              | spacing                                | superconducting films              | thiophenes   |
|              | target thickness                       | thermochromic coatings             | RT benzene   |
|              | thick plates                           | thick films                        | drugs  |
|              |  |                                    | 5  |
|              | thickness ratio                        | wafers                             | furans   |
|              | volume                                 | YBCO superconductors               | pyrroles   |
|              |  | yttria-stabilized zirconia         |  |
| thickne      | ss ratio                               | <b>,</b>                           | thioplastics                                       |
|              | ratios                                 | thin layer chromatography          | RT elastomers                                      |
| 00           |  |                                    | plastics   |
|              | . aspect ratio                         | GS chemical tests                  |  |
|              | thickness ratio                        | . chemical analysis                | sulfides   |
| RT           | airfoil profiles                       | chromatography                     |  |
|              | airfoils                               | thin layer chromatography          | thioureas  |
|              | dimensional analysis                   | RT gas chromatography              | GS nitrogen compounds                              |
|              | fineness ratio                         |                                    | . amides   |
|              |  | monomolecular films                | ureas  |
|              | thickness                              |                                    |  |
|              | thin airfoils                          | thin plates                        | thioureas  |
|              | thin wings                             | SN (EXCLUDES THIN SURFACE COATINGS |  |
|              | go                                     | AND FILMS)                         | thiuronium   |
| ما به ا ما ا |  | GS structural members              | GS nitrogen compounds                              |
| thigh        |  | . plates (structural members)      | . amides   |
| GS           | anatomy                                | ,                                  |  |
|              | . limbs (anatomy)                      | thin plates                        | ureas  |
|              | leg (anatomy)                          | RT diaphragms (mechanics)          | thiuronium   |
|              | thigh                                  | flat plates                        | organic compounds                                  |
|              |  | foils (materials)                  | . amines   |
|              | appendages                             | ,                                  | thiuronium   |
|              | . leg (anatomy)                        | metal plates                       | unuromum   |
|              | thigh                                  | panels                             |  |
|              |  | parallel plates                    | thixotropic propellants                            |
| thin air     | foile                                  | ∞ plates                           | USE gelled rocket propellants                      |
|              |  | •                                  | •  |
| GS           | airfoils                               | ∞ sheets                           | thixotropy   |
|              | . thin airfoils                        | thick plates                       | DEF The property of material that enables it       |
|              | thin wings                             | ∞ thin bodies                      | DEI The property of material that enables it       |
|              | infinite span wings                    |                                    | to stiffen in a relatively short time on standing, |
| DT           |  | thin walled shells                 | but upon agitation or manipulation to change to    |
| RT           | airfoil profiles                       |                                    | a very soft consistency or to a fluid of high      |
|              | thickness ratio                        | (                                  | viscosity, the process being completely revers-    |
|              |  | . thin walled shells               |  |
| thin bo      | dies                                   | RT cylindrical shells              | ible.  |
| SN           | (USE OF A MORE SPECIFIC TERM IS        | membrane structures                | RT gelation  |
| 0            | RECOMMENDEDCONSULT THE TERMS           | metal shells                       | gels   |
|              | LISTED BELOW)                          |                                    | liquefaction                                       |
| RT           | slender bodies                         | orthotropic shells                 | nonNewtonian flow                                  |
|              | thin plates                            | reinforced shells                  |  |
|              | •                                      | skin (structural member)           | ∞ physical properties                              |
|              | thin walls                             | spherical shells                   | semisolids   |
|              | thin wings                             | stressed-skin structures           | solubility   |
|              |  |                                    | viscosity  |
| thin filr    | ns                                     | toroidal shells                    | ricoodity  |
| SN           | (SOLID STATE PHYSICS AND               |                                    | Thomas-Fermi model                                 |
| 0.1          | ELECTRONICS)                           | thin walls                         |  |
| DFF          | Films having a thickness much smaller  | GS walls                           | UF Thomas-Fermi theory                             |
|              | y lateral dimension, formed by deposi- | . thin walls                       | GS models  |
|              |  |                                    | . mathematical models                              |
|              | a material or by a thinning process.   | RT bulkheads                       | Thomas-Fermi model                                 |
| GS           | thin films                             | diaphragms (mechanics)             | RT atomic structure                                |
|              | . diamond films                        | partitions (structures)            |  |
|              | . energy absorption films              | skin (structural member)           | electron distribution                              |
|              | . ferromagnetic films                  | thick walls                        | plasma composition                                 |
|              | 3                                      |                                    | quantum statistics                                 |
|              | . monomolecular films                  | ∞ thin bodies                      | '  |
|              | Langmuir-Blodgett films                |                                    | Thomas-Fermi theory                                |
| RT           | amorphous silicon                      | thin wings                         | USE Thomas-Fermi model                             |
|              | atomic force microscopy                | GS airfoils                        | OSL Monas-Fermi model                              |
|              | atomic layer epitaxy                   | . thin airfoils                    | Thomson off  |
|              | carbon nitrides                        |                                    | Thomson effect                                     |
|              |  | . thin wings                       | USE thermoelectricity                              |
|              | coatings                               | infinite span wings                |  |
|              | computer storage devices               | . wings                            | Thomson scattering                                 |
|              | copper indium selenides                | thin wings                         | GS scattering                                      |
|              | electrochromism                        | infinite span wings                |  |
|              |  |                                    | . wave scattering                                  |
|              | electrode film barriers                | RT airfoil profiles                | electromagnetic scattering                         |
|              | ferroelectric materials                | fixed wings                        | Thomson scattering                                 |
| 0            | ∘ films                                | flexible wings                     | RT electromagnetic radiation                       |
|              | heterojunctions                        | thickness ratio                    |  |
|              | indium selenides                       | ∞ thin bodies                      | Thor Able rocket vehicle                           |
|              |  |                                    |  |
|              | integrated circuits                    | uncambered wings                   | GS launch vehicles                                 |
|              | integrated optics                      |                                    | . Thor launch vehicles                             |
|              | ion plating                            | thinners                           | Thor Able rocket vehicle                           |
|              | Langmuir turbulence                    | USE solvents                       | . Thorad launch vehicles                           |
|              |  | 00_ 0001100                        |  |
|              | metal films                            | 415.15                             | . Thor Able rocket vehicle                         |
|              | microchannel plates                    | thiols                             | rocket vehicles                                    |
|              | microminiaturization                   | UF dithiols                        | . multistage rocket vehicles                       |
|              | miniature electronic equipment         | mercaptan                          | Thor launch vehicles                               |
|              | molecular electronics                  | mercapto compounds                 | Thor Able rocket vehicle                           |
|              |  |                                    |  |
|              | nanoparticles                          | GS sulfur compounds                | . Thorad launch vehicles                           |
|              | oxide films                            | . thiols                           | Thor Able rocket vehicle                           |
|              | parametrons                            | cysteine                           | RT Explorer 6 satellite                            |
|              | pellicle                               | dimercaprol                        | liquid propellant rocket engines                   |
|              |  | RT alcohols                        | Pioneer 1 space probe                              |
|              | plating                                |                                    |  |
|              | praetersonic devices                   | ∞ chemical compounds               | Pioneer 5 space probe                              |

solid propellant rocket engines sternum screws TIROS 1 satellite threat evaluation Thor Agena launch vehicle thorium The evaluation of the potential harm of GS launch vehicles GS chemical elements an approaching aircraft or other objects. . Thor launch vehicles . actinide series aircraft hazards Thor Agena launch vehicle . . thorium aircraft safety . Thorad launch vehicles . thorium isotopes collision avoidance . Thor Agena launch vehicle metals midair collisions rocket vehicles . actinide series radar tracking . multistage rocket vehicles . . thorium situational awareness . . Thor launch vehicles . thorium isotopes warning systems ... Thor Agena launch vehicle RT nuclear fuels . Thorad launch vehicles three axis stabilization . Thor Agena launch vehicle thorium 228 Maintenance of a stable platform in a Agena A rocket vehicle USE thorium isotopes desired 3-axis orientation in inertial space by Agena B Ranger Program utilizing gyros and accelerometers and which is Agena rocket vehicles thorium 230 independent of vehicle motion. Discoverer satellites USE thorium isotopes stabilization GS Explorer 31 satellite three axis stabilization Explorer 34 satellite thorium 234 inertial platforms Explorer 35 satellite USE thorium isotopes satellite attitude control Explorer 36 satellite satellite orientation liquid propellant rocket engines thorium alloys stabilized platforms Nimbus 1 satellite GS alloys Nimbus 2 satellite thorium alloys three body problem Nimbus satellites RT nuclear fuels That problem in classical celestial me-OGO-3 chanics which treats the motion of a small body, thorium compounds Thor Delta launch vehicle usually with negligible mass, relative to and actinide series compounds under the gravitational influence of two other Echo 1 carrier rocket thorium compounds finite point masses. launch vehicles . . thorium fluorides celestial mechanics . Thor launch vehicles . . thorium oxides four body problem Thor Delta launch vehicle ceramic nuclear fuels many body problem . Thorad launch vehicles ∞ chemical compounds . . Thor Delta launch vehicle orbits ∞ metal compounds perturbation rocket vehicles nuclear fuels problems . multistage rocket vehicles retrograde orbits . . Thor launch vehicles thorium fluorides triple stars Thor Delta launch vehicle actinide series compounds Trojan asteroids . Thorad launch vehicles . thorium compounds Trojan orbits . Thor Delta launch vehicle . thorium fluorides two body problem Ariel satellites halogen compounds Echo 1 satellite . fluorine compounds Explorer satellites three dimensional bodies . . fluorides liquid propellant rocket engines RT aerodynamic configurations . . . metal fluorides OSO ∞ bodies . thorium fluorides Relay satellites boundary value problems . halides solid propellant rocket engines flow distribution . . fluorides SYNCOM satellites . . . metal fluorides Telstar satellites three dimensional boundary layer . . . . thorium fluorides boundary layers . . metal halides three dimensional boundary layer . . . metal fluorides launch vehicles axisymmetric flow . . . . thorium fluorides . Thor launch vehicles boundary layer transition Thor Able rocket vehicle compressible boundary layer thorium isotopes . . Thor Agena launch vehicle laminar boundary layer thorium 228 . . Thor Delta launch vehicle thorium 230 rocket vehicles secondary flow . multistage rocket vehicles thorium 234 turbulent boundary layer chemical elements . . Thor launch vehicles GS velocity distribution . . . Thor Able rocket vehicle . actinide series ... Thor Agena launch vehicle . . thorium three dimensional composites . Thor Delta launch vehicle . . . thorium isotopes composite materials liquid propellant rocket engines . nuclides three dimensional composites . . isotopes

### Thor launch vehicles

solid propellant rocket engines Thorad launch vehicles

∞ vehicles

# Thorad launch vehicles

launch vehicles

### . Thorad launch vehicles

Thor Able rocket vehicle

. . Thor Agena launch vehicle

. Thor Delta launch vehicle

rocket vehicles

# . Thorad launch vehicles

. . Thor Able rocket vehicle Thor Agena launch vehicle

. Thor Delta launch vehicle

liquid propellant rocket engines Thor launch vehicles

∞ vehicles

# thorax

anatomy GS . thorax RT breast chest

diaphragm (anatomy)

# ... thorium isotopes

metals

. . thorium

thorium oxides GS actinide series compounds

. actinide series

. thorium compounds

. thorium isotopes

thorium oxides

chalcogenides

. oxides

. . metal oxides

. thorium oxides

RT dioxides

### thoron

USE radon isotopes

### threads

(EXCLUDES TEXTILES AND FILAMENTARY FORMS) SN RT bolts nuts (fasteners)

braided composites fiber composites materials woven composites

## three dimensional flow

GS fluid flow . parallel flow

# . three dimensional flow

... Karman-Bodewadt flow . . secondary flow

translational motion

. three dimensional motion

# . . three dimensional flow

. . . Karman-Bodewadt flow

. . secondary flow

RT axial flow

conical flow flow geometry helical flow

one dimensional flow Roshko prediction spherical waves two dimensional flow

wedge flow responses myocardial infarction sensitivity three dimensional models throttling threshold currents (added August 1988) threshold detectors (dosimeters) RT Joule-Thomson effect GS models variable thrust threshold gates three dimensional models threshold logic computational grids threshold voltage throwing computer aided design thresholds (perception) RT ejection computerized simulation spreading mathematical models thresholds (perception) rapid prototyping thrust sensory thresholds The pushing or pulling force developed two dimensional models acuity by an aircraft engine or a rocket engine. The adaptation three dimensional motion force exerted in any direction by a fluid jet or by audiometry translational motion a powered screw, as, the thrust of an antitorque auditory perception . three dimensional motion rotor. Specifically in rocketry, F(thrust) = mv auditory sensation areas . . three dimensional flow where m is propellant mass flow and v is exauditory stimuli ... Karman-Bodewadt flow haust velocity relative to the vehicle. Used for chronaxy . . secondary flow thrust power. frequency response degrees of freedom UF thrust power hearing optical flow (image analysis) GS thrust light adaptation . high thrust limen threshold currents . jet thrust neurology electric current GS . leading edge thrust perception threshold currents . low thrust photosensitivity lasers . microthrust sensitivity threshold voltage . rocket thrust ∞ thresholds ∞ thresholds . . retrothrust vision . static thrust visual perception threshold detectors (dosimeters) variable thrust GS measuring instruments acceleration (physics) . radiation measuring instruments throats auxiliary propulsion (NON BIOLOGICAL) . . radiation detectors burning time The narrowest portion of a constricted ... dosimeters dual thrust nozzles duct, as in a diffuser, or a venturi tube. SN (non .... threshold detectors ∞ force biological). (dosimeters) jet engines nozzle thrust coefficients RT carburetors RT ionization chambers ∞ channels ∞ thresholds ∞ power chokes (restrictions) propulsion ducts threshold gates ∞ reaction nozzle geometry rocket engines GS circuits nozzle inserts . gates (circuits) rocket propellants nozzle walls threshold gates specific impulse orifices . logic circuits total impulse . threshold gates  $RT \, \infty \, thresholds$ thrombin thrust augmentation trigger circuits GS biopolymers DEF The increasing of the thrust of an en-. proteins gine or power plant, especially of a jet engine and usually for a short period of time, over the threshold logic . . enzymes GS mathematical logic . thrombin thrust normally developed. . set theory body fluids GS augmentation . threshold logic . blood thrust augmentation gates (circuits) . thrombin afterburning ∞ logic organic compounds Coanda effect logic circuits . proteins high thrust ∞ thresholds . . enzymes secondary injection transistor logic thrombin shrouded propellers trigger circuits RT blood coagulation variable thrust fibrin water injection threshold shift fibrinogen USE thresholds hemostatics thrust bearings prothrombin bearings threshold voltage thromboplastin thrust bearings The threshold energy necessary to reantifriction bearings move an electron from the bound position to the thrombocytes RT blood coagulation ball bearings conduction band in solid state devices. gas bearings GS potential energy roller bearings clotting . electric potential . threshold voltage thrust chamber pressure thrombopenia photovoltages pressure GS diseases photovoltaic effect . thrust chamber pressure thrombonenia semiconductor junctions RT coagulation silicon junctions thrust chambers solid state devices UF rocket chambers threshold currents thromboplastin arc chambers thresholds body fluids GS  $\infty\,\text{chambers}$ volt-ampere characteristics . blood combustion chambers . thromboplastin divergent nozzles blood coagulation rocket engine cases (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS clotting hemostatics thrust control LISTED BELOW)
Generally, the minimum values of sighomeostasis GS thrust control platelets nals that can be detected by the systems or . thrust vector control thrombin sensors under consideration. Used for threshold attitude control ∞ control shift. UF threshold shift thrombosis control rockets RT doors GS diseases engine control entrances thrombosis iet control noise threshold blood coagulation ∞ reaction control

infarction

resolution

rocket engine control

|          | satellite control                           |                 | spacecraft control   |          | bases (chemical)                     |
|----------|---|-----------------|--|----------|--------------------------------------|
|          | turbojet engine control                     |                 | variable thrust  |          | thymidine                            |
|          | variable thrust                             |                 | Vernier engines  |          | organic compounds                    |
|          | Park Handa                                  |                 | X-31 aircraft  |          | . cyclic compounds                   |
|          | distribution                                | 46              |  |          | heterocyclic compounds               |
| DEF      |   | ∞ thrusto<br>SN |  |          | pyrimidines                          |
| RT       | wings, airfoils, etc.<br>aerodynamic forces | SIN             | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS | DT       | thymidine                            |
|          | ∞ distribution                              |                 | LISTED BELOW)  | RT       | alloxan                              |
| ,        | force distribution                          | RT              | ion engines  |          | deoxyribonucleic acid<br>nucleosides |
|          | leading edges                               |                 | magnetoplasmadynamic thrusters                               |          | Tucleosides                          |
|          | pressure distribution                       |                 | pulsed inductive thrusters                                   | thymine  |                                      |
|          | vortices                                    |                 | pulsed plasma thrusters                                      | GS       | acids                                |
|          | wing planforms                              |                 | rocket engines   |          | . thymine                            |
|          | 31  | thrust-w        | eight ratio  |          | nitrogen compounds                   |
| thrust f | aults                                       |                 | ratios   |          | thymine                              |
| USE      | geological faults                           |                 | . thrust-weight ratio  |          | organic compounds                    |
|          |   | RT              | acceleration (physics)                                       |          | cyclic compounds                     |
| thrust   |   |                 | mass ratios  |          | heterocyclic compounds               |
| GS       | loads (forces)                              |                 | pressure ratio   |          | pyrimidines                          |
|          | . dynamic loads                             |                 | rocket engines   |          | thymine                              |
|          | thrust loads                                |                 | -  | RT       | alloxan                              |
| RΙ       | aerodynamic loads                           | thulium         |  |          | deoxyribonucleic acid                |
|          | axial compression loads                     | GS              | chemical elements  |          |                                      |
|          | axial loads                                 |                 | . rare earth elements  | thymol   |                                      |
|          | compression loads                           |                 | thulium  | GS       | hydroxyl compounds                   |
|          | jet thrust                                  |                 | thulium isotopes   |          | . alcohols                           |
|          | rocket thrust                               |                 | metals   |          | phenols                              |
|          | structural design criteria                  |                 | . rare earth elements  |          | thymol                               |
| thruet   | measurement                                 |                 | thulium  | thymus   | gland                                |
| GS       | mechanical measurement                      |                 | thulium isotopes   | •        | •                                    |
| 00       | . thrust measurement                        | 4h. dir ma      | 474  | GS       | anatomy . glands (anatomy)           |
| RT       | accelerometers                              | thulium         |  |          | endocrine glands                     |
|          | dynamometers                                | USE             | thulium isotopes   |          | thymus gland                         |
|          | ∞ force                                     | thulium         | compounds  |          | . immune systems                     |
|          | ∞ measurement                               |                 | rare earth compounds   |          | lymphatic system                     |
|          | mododromone                                 | 00              | . thulium compounds  |          | thymus gland                         |
| thrust p | power                                       | PT ~            | chemical compounds   |          | triyiridə gidild                     |
|          | thrust                                      |                 | metal compounds  | thyratro | ons                                  |
|          |   |                 | motar compounds  | GS       | electron tubes                       |
| thrust   | programming                                 | thulium         | isotopes   |          | . gas discharge tubes                |
| UF       | optimum thrust programming                  | UF              | thulium 171  |          | thyratrons                           |
| GS       | scheduling                                  |                 | chemical elements  |          | microwave equipment                  |
|          | . programming (scheduling)                  |                 | . nuclides   |          | . thyratrons                         |
|          | thrust programming                          |                 | isotopes   |          | rectifiers                           |
| RT       | flight mechanics                            |                 | thulium isotopes   |          | . thyratrons                         |
|          | flight optimization                         |                 | . rare earth elements  | RT       | current converters (AC to DC)        |
|          | flight plans                                |                 | thulium  |          | silicon controlled rectifiers        |
|          | orbital mechanics                           |                 | thulium isotopes   |          | thyristors                           |
|          | parking orbits                              |                 | metals   |          | •                                    |
|          | propulsive efficiency                       |                 | . rare earth elements  | thyristo | rs                                   |
|          | trajectory control                          |                 | thulium  | GS       | electronic equipment                 |
|          |   |                 | thulium isotopes   |          | . solid state devices                |
|          | reversal                                    |                 | •  |          | semiconductor devices                |
| RT       | aircraft brakes                             | Thunder         | chief aircraft   |          | thyristors                           |
|          | brakes (for arresting motion)               | USE             | F-105 aircraft   |          | silicon controlled rectifiers        |
|          | braking                                     |                 |  |          | rectifiers                           |
|          | deceleration                                | thunder         |  |          | . thyristors                         |
|          |   |                 | Local storms resulting from warm hu-                         |          | silicon controlled rectifiers        |
|          | termination                                 |                 | ising in an unstable environment.                            | RT       | junction transistors                 |
| GS       | stopping                                    | GS              | storms   |          | p-n-p-n junctions                    |
| ОТ       | . thrust termination                        |                 | . storms (meteorology)                                       |          | thyratrons                           |
| RT       | burnout<br>rocket thrust                    |                 | rainstorms   |          | trigger circuits                     |
|          |   | рт              | thunderstorms  |          | triodes                              |
|          | stage separation variable thrust            | RT              | anvil clouds   | thuroid  | aland                                |
|          | variable tillust                            |                 | arc clouds   | thyroid  | anatomy                              |
| hruot    | vector control                              |                 | atmospherics   | GS       |                                      |
| UF       |   |                 | cirrocumulus clouds  |          | . glands (anatomy)                   |
| GS       | TVC (control) attitude control              |                 | cirrostratus clouds  |          | endocrine glands                     |
| GS       | . directional control                       |                 | clouds (meteorology)   | DT       | thyroid gland calcium metabolism     |
|          | thrust vector control                       |                 | cold fronts<br>cumulonimbus clouds                           | IXI      | hypometabolism                       |
|          | flight control                              |                 | downbursts   |          | thyroxine                            |
|          | . thrust vector control                     |                 | elves  |          | HISTOXINE                            |
|          | thrust control                              |                 | fronts (meteorology)   | thyroxir | 10                                   |
|          | . thrust vector control                     |                 | hail   | GS       | acids                                |
| RT       | air slew missiles                           |                 | hailstorms   | 00       | . amino acids                        |
|          | automatic control                           |                 | lightning  |          | thyroxine                            |
|          | automatic flight control                    |                 | lightning suppression  |          | organic compounds                    |
|          | ∞ control                                   |                 | microbursts (meteorology)                                    |          | . amino acids                        |
| `        | guide vanes                                 |                 | rain   |          | thyroxine                            |
|          | gyrostabilizers                             |                 | sprites (atmospheric physics)                                |          | secretions                           |
|          | jet vanes                                   |                 | storm damage   |          | . endocrine secretions               |
|          | liquid injection                            |                 | warm fronts  |          | hormones                             |
|          | maneuverable spacecraft                     |                 | wind (meteorology)   |          | thyroxine                            |
|          | missile control                             |                 | (  | RT       | thyroid gland                        |
|          | nozzle thrust coefficients                  | thymidi         | ne   | •••      | , , , g                              |
|          | rocket engines                              |                 | acids  | Tibet    |                                      |
|          | secondary injection                         |                 | . thymidine  | GS       | nations                              |
|          |   |                 |  |          |                                      |

|  | . Tibet   |               | ipon the rotating Earth. The disturbance   |                          | XV-15 aircraft  |
|--|---|---------------|--|--------------------------|---|
| RT                                       | Asia  |               | propagates as a wave through the at-   |                          |   |
|  | Bhutan  |               | ere and along the surface of the waters of   |                          | g aircraft  |
|  | Himalayas   |               | rth. Atmospheric tides are always so   |                          | pivoted wing aircraft   |
|  |   |               | ited, whereas the term tide alone com-   | GS                       | tilt wing aircraft  |
| tibia                                    |   |               | mplies the oceanic variety. Used for tidal   |                          | . CL-84 aircraft  |
| GS                                       | anatomy   | oscillati     |  |                          | . L-29 jet trainer  |
|  | . musculoskeletal system  | UF            | tidal oscillation  |                          | . VZ-2 aircraft   |
|  | bones   | GS            | tides  |                          | . XC-142 aircraft   |
|  | tibia   |               | . atmospheric tides  | RT 4                     | ∞ aircraft  |
| RT                                       | leg (anatomy)   |               | . Earth tides  |                          | fan in wing aircraft  |
|  |   |               | . lunar tides  |                          | research aircraft   |
| TID                                      |   | RT            | coastal currents   |                          | short takeoff aircraft  |
| USE                                      | traveling ionospheric disturbances  |               | estuaries  |                          | V-22 aircraft   |
|  |   |               | flood damage   |                          | V/STOL aircraft   |
| tidal fla                                | ats   |               | floods   |                          | vertical takeoff aircraft   |
| GS                                       | landforms   |               | ocean currents   |                          | X-22 aircraft   |
|  | . flats (landforms)   |               | ocean surface  |                          | 7. 22 4   |
|  | tidal flats   |               | oceanography   | tilted p                 | ropellers   |
| RT                                       | aquiculture   |               | pressure ice   |                          | propellers  |
|  | coasts  |               |  | 00                       | . tilted propellers   |
|  | estuaries   |               | sea roughness  | RT                       | helicopter propeller drive  |
|  | fisheries   |               | tidal flats  | KI                       | Helicopter propeller drive  |
|  |   |               | tide powered generators  | tilting                  |   |
|  | marshlands  |               | tide powered machines  | tilting                  | attitude (inclination)  |
|  | mud   |               | tidepower  | USE                      | attitude (inclination)  |
|  | oceans  |               | water currents   |                          |   |
|  | shorelines  |               | waterwave energy conversion  | tilting r                |   |
|  | tides   |               | waterwave powered machines   | GS                       | airfoils  |
|  |   |               | wetlands   |                          | . wings   |
| tidal os                                 | cillation   |               |  |                          | rotary wings  |
| USE                                      | tides   | 45-1 - 12     |  |                          | tilting rotors  |
|  |   | tiebolts      |  |                          | rotating bodies   |
| tidal wa                                 | aves  | GS            | fasteners  |                          | . rotors  |
| GS                                       | water waves   |               | . bolts  |                          | rotary wings  |
|  | . tidal waves   |               | tiebolts   |                          | tilting rotors  |
| RT                                       | ocean currents  |               |  | RT                       | tilt rotor aircraft   |
|  | ocean surface   | TIG we        | ldina  | 131                      | V-22 aircraft   |
|  | oceanography  |               | gas tungsten arc welding   |                          | XV-3 aircraft   |
|  | sea breeze  | USL           | gas tungsten are welding   |                          | AV-5 alliciali  |
|  |   |               |  | tiltmete                 | are.  |
|  | sea roughness   | tightne       | SS   |                          |   |
|  | seismology  | RT            | clearances   |                          | Instruments used to measure small   |
|  | tsunami waves   |               | closures   |                          | s in the tilt of the Earth's surface usually  |
| •  | ∞ waves   |               | proximity  |                          | on to a liquid-level surface or to the res  |
|  | wind (meteorology)  |               |  |                          | of a pendulum.  |
|  |   | 4!1           |  | GS                       | measuring instruments   |
|  | wered generators  | tiles         | 0  |                          | . tiltmeters  |
| RT                                       | electric generators   |               | Ceramic surfacing units, usually rela-   | RT                       | attitude (inclination)  |
|  | energy conversion efficiency  |               | in in relation to facial area, made from   |                          | geophysics  |
|  | ∞ generators  |               | a mixture of clay and other ceramic  |                          | seismographs  |
|  | ocean currents  | materia       | ls, called the body of the tile having   |                          | <b>5</b> .  |
|  | ocean surface   | either a      | "glazed" or "unglazed" face and fired  | tilt-tabl                | e test  |
|  | oceanography  | above r       | ed heat in the course of manufacture to  | (add                     | led August 2004)  |
|  | oceans  | a temp        | erature sufficiently high to produce spe-  |                          | A test to evaluate homodynamic o  |
|  | sea roughness   |               | sical properties and characteristics.  |                          | ascular response that uses a tilt   |
|  | tidepower   | RT            | ceramics   |                          | ble table to maintain a head-down o   |
|  |   |               | floors   | •                        |   |
|  | tides   |               | grout  |                          | body posture.   |
|  | waterwave energy conversion   |               | Ludox (trademark)  | GS                       | physiological tests   |
|  | waterwave powered machines  |               | ,  | DT                       | . tilt-table test   |
|  |   |               | masonry  | RT                       | •   |
|  | wered machines  |               | walls  |                          | bioastronautics   |
| RT «                                     | ∞ machinery   |               |  |                          | cardiovascular system   |
|  | ocean currents  | tilt          |  |                          | gravitational physiology  |
|  | ocean surface   | USE           | attitude (inclination)   |                          | head down tilt  |
|  | sea roughness   |               | ,  |                          | head up tilt  |
|  | tidepower   | 4:144-        | :  |                          | hemodynamic responses   |
|  | tides   |               | r aircraft   |                          | hindlimb suspension   |
|  | waterwave energy conversion   |               | A type of convertible aircraft which   |                          | lower body negative pressure  |
|  | waterwave powered machines  |               | f, hovers, and lands as a helicopter but is  |                          | orthostatic tolerance   |
|  | ·   |               | ed into a fixed wing aircraft by the 90-   |                          | physiological responses   |
| tidepov                                  | ver   |               | tilting of its rotor or rotors for use as a  |                          | supine position   |
| GS                                       |   |               | er for forward flight.   |                          | weightlessness simulation   |
|  | renewable energy  |               |  |                          | worgh troops on marketon  |
| GS                                       | renewable energy . tidepower  | GS            | V/STOL aircraft  |                          |   |
|  | . tidepower   | GS            | v/STOL aircraft . rotary wing aircraft   | timbor                   | identification  |
| RT                                       | . <b>tidepower</b><br>clean energy  | GS            |  |                          | identification  |
| RT                                       | . tidepower<br>clean energy<br>Earth resources  | GS            | . rotary wing aircraft   |                          | identifying   |
| RT                                       | . tidepower clean energy Earth resources ∞ energy sources   | GS            | . rotary wing aircraft tilt rotor aircraft   |                          | identifying<br>. timber identification  |
| RT                                       | . tidepower clean energy Earth resources ∞ energy sources ocean currents  |               | . rotary wing aircraft<br>tilt rotor aircraft<br>V-22 aircraft   |                          | identifying . timber identification recognition   |
| RT                                       | . tidepower clean energy Earth resources senergy sources ocean currents ocean surface   |               | . rotary wing aircraft<br><b>tilt rotor aircraft</b><br>V-22 aircraft<br>XV-15 aircraft<br>⇒ aircraft  | GS                       | identifying . timber identification recognition . timber identification   |
| RT                                       | . tidepower clean energy Earth resources ∞ energy sources ocean currents ocean surface oceanography   |               | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft ⇒ aircraft helicopters   |                          | identifying . timber identification recognition timber identification conifers  |
| RT                                       | . tidepower clean energy Earth resources ∞ energy sources ocean currents ocean surface oceanography sea roughness   |               | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft  ⇒ aircraft helicopters rotor stator interactions  | GS                       | identifying . timber identification recognition . timber identification conifers crop identification  |
| RT                                       | . tidepower clean energy Earth resources social currents ocean currents ocean surface oceanography sea roughness tide powered generators  |               | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft ⇒ aircraft helicopters   | GS                       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees  |
| RT                                       | tidepower clean energy Earth resources ∞ energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines   | RT «          | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft ∞ aircraft helicopters rotor stator interactions tilting rotors  | GS                       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources  |
| RT                                       | . tidepower clean energy Earth resources social currents ocean currents ocean surface oceanography sea roughness tide powered generators  | RT o          | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft aircraft helicopters rotor stator interactions tilting rotors  cor Research Aircraft Program   | GS                       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees  |
| RT                                       | tidepower clean energy Earth resources ∞ energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines   | RT «          | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft aircraft helicopters rotor stator interactions tilting rotors  cor Research Aircraft Program programs  | GS                       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources  |
| RT                                       | tidepower clean energy Earth resources energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines tides   | RT o          | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft aircraft helicopters rotor stator interactions tilting rotors  cor Research Aircraft Program   | GS                       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation   |
| RT                                       | tidepower clean energy Earth resources ≈ energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tides waterwave energy  | RT o          | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft aircraft helicopters rotor stator interactions tilting rotors  cor Research Aircraft Program programs  | GS                       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation forests   |
| RT                                       | tidepower clean energy Earth resources ≈ energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines tides waterwave energy waterwave energy conversion                            | RT o          | . rotary wing aircraft tilt rotor aircraft V-22 aircraft V-15 aircraft XV-15 aircraft . aircraft helicopters rotor stator interactions tilting rotors  or Research Aircraft Program programs . NASA programs . Tilt Rotor Research Aircraft                    | GS<br>RT                 | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation forests trees (plants)  |
| RT                                       | tidepower clean energy Earth resources ≈ energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines tides waterwave energy waterwave energy conversion                            | RT Tilt RoiGS | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft aircraft aircraft helicopters rotor stator interactions tilting rotors  tor Research Aircraft Program programs . NASA programs . Tilt Rotor Research Aircraft Program                  | GS<br>RT                 | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation forests trees (plants) inventory                                |
| RT                                       | tidepower clean energy Earth resources seenergy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines tides waterwave energy waterwave energy conversion waterwave powered machines | RT Tilt RoiGS | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft XV-15 aircraft aircraft helicopters rotor stator interactions tilting rotors  tor Research Aircraft Program programs . NASA programs . Tilt Rotor Research Aircraft Program a aircraft | GS<br>RT<br>timber       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation forests trees (plants) inventory inventories                    |
| RT · · · · · · · · · · · · · · · · · · · | tidepower clean energy Earth resources ≈ energy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines tides waterwave energy waterwave energy conversion waterwave powered machines | RT Tilt RoiGS | rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft incraft helicopters rotor stator interactions tilting rotors  cor Research Aircraft Program programs . NASA programs Tilt Rotor Research Aircraft Program aircraft helicopters           | GS<br>RT<br>timber<br>GS | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation forests trees (plants) inventory inventories . timber inventory |
| tides DEF Earth's                        | tidepower clean energy Earth resources seenergy sources ocean currents ocean surface oceanography sea roughness tide powered generators tide powered machines tides waterwave energy waterwave energy conversion waterwave powered machines | RT Tilt RoiGS | . rotary wing aircraft tilt rotor aircraft V-22 aircraft XV-15 aircraft XV-15 aircraft aircraft helicopters rotor stator interactions tilting rotors  tor Research Aircraft Program programs . NASA programs . Tilt Rotor Research Aircraft Program a aircraft | GS<br>RT<br>timber       | identifying . timber identification recognition . timber identification conifers crop identification deciduous trees Earth resources evaluation forests trees (plants) inventory inventories . timber inventory |

forest management stochastic processes reaction time forests temporal distribution refractory period infrared photography ∞ time response responses photography schedules reforestation time discrimination ∞ time response satellite-borne photography comparator circuits transmission rate (communications) sensory discrimination trees (plants) time lapse photography time division multiple access timber vigor USE chronophotography Radio transmission method in which foliage forests each station of a satellite communication nettime marching DEF Techniques for solving a problem with work is assigned a time schedule for transmisgrowth partial differential equations that have a time timberline sion (in lieu of frequency division); a multiderivation. trees (plants) element antenna with an adaptive null steering RT finite difference theory array eliminates interference. Used for TDMA. numerical analysis timberline **TDMA** spatial marching dendrochronology GS telecommunication forests . multiple access time measurement time division multiple access growth dating high altitude environments . radio communication epochs polar regions . . radio relay systems timing . time division multiple access timber vigor time measurement trees (plants) transmission . clock paradox . signal transmission RT atomic clocks time . . data transmission chronometers DEF The hour of the day reckoned by the . . . multiple access clocks position of a celestial reference point relative to .. time division multiple access consecutive events a reference celestial median. Used for duration. Aloha system frequency measurement duration channel noise time frequency division multiple access ∞ measurement multichannel communication oscillographs . access time radioactive age determination . burning time packet switching . downtime rates (per time) pulse communication sidereal time . ephemeris time satellite networks . flight time stroboscopes switching . MTBF wideband communication synchronism . reaction time time time division multiplexing ∞ time response . . chronaxy time synchronization . relaxation time A system for the transmission of information about two or more quantities (measurands) over a common channel by dividing availtiming devices . response time (computers) . sidereal time velocity . testing time . transit time velocity measurement able time intervals among the measurands to form a composite pulse train. windows (intervals) . universal time RT calendars GS transmission time measuring instruments multiplexing measuring instruments time division multiplexing celestial geodesy . time measuring instruments chronology demultiplexing . . clocks frequency division multiplexing exposure . . . atomic clocks intervals pulse modulation . . . autonomous spacecraft clocks launch dates telemetry . . . chronometers month television transmission . . timing devices prolongation wavelength division multiplexing relativistic effects time of flight spectrometers schedules time domain analysis GS measuring instruments (added April 1999) synchronism spectrometers analysis (mathematics) time measurement time of flight spectrometers units of measurement . time domain analysis spectroscopy . . finite difference time domain time constant method time optimal control Generally, the time required for an control systems design GS automatic control instrument to indicate a given percentage of the dynamic response . optimal control final reading resulting from an input signal; the parameter identification time optimal control relaxation time of an instrument. signal processing optimization ∞ time response constants . optimal control . time constant . . time optimal control . . perceptual time constant time functions RT ∞ control access time GS functions (mathematics) time functions ∞ constant ∞ time response rates (per time) damping (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) access time dynamic characteristics square waves stochastic processes dynamic response impedance wave functions LC circuits waveforms delay wavelet analysis RC circuits response bias reaction time responses time lag relaxation time temporal distribution The total time between the application time constant RL circuits of a signal to a measuring instrument and the full **RLC** circuits time dependence indication of that signal within the uncertainty of time domain analysis  ${\scriptstyle \infty \text{ time response}}$ the instrument. Used for chronotrons, lag (detransfer functions time lag lay), and time delay.

UF chronotrops time measurement transient response chronotrons time delay lag (delay) time series analysis USE time lag time delay RT ∞ applications of mathematics RT cepstral analysis autocorrelation time dependence delay autoregressive moving average

delay lines

hysteresis

electric relays

inventory controls

correlation

curve fitting data sampling

extrapolation

GS

dependence

RT ∞ Helmholtz equations

time dependence

spatial dependencies

forecasting Fourier analysis Kalman-Schmidt filtering maximum entropy method scheduling statistics stochastic processes trend analysis trends

#### time sharing

DEF A mode of operation that permits two or more users to execute computer programs concurrently on the same computer system by interleving the execution of theprogram. Time sharing may be implemented by time slicing, priority-based interrupts, or other scheduling methods.

RT computer programming coordination multiple output programs multiprocessing (computers) multiprogramming pipelining (computers) run time (computers)

#### time signals

DEF Accurate signals marking specified times or time intervals. They are used primarily for determining errors of timepieces. Such signals are usually sent from an observatory by radio or telegraph.

RT clock paradox frequency standards picosecond pulses pulse duration ∞ signals time synchronization timing devices

#### time synchronization

(added December 1998)

synchronism GS

time synchronization

clocks

frequency standards frequency synchronization Global Positioning System time measurement time signals

universal time

### time temperature parameter

aging (metallurgy) austenitic stainless steels embrittlement fracture mechanics long term effects metallography precipitation hardening temperature effects

timers

USE timing devices

timing

USE time measurement

# timing devices

UF timers

GS measuring instruments

. time measuring instruments

. timing devices chronometers clock paradox clocks dwell pendulums tachometers time measurement time signals

### Timoshenko beams

DEF Simple structural units used by Stephen Timoshenko as models in developing analysis equations for deflections and deformations of beams and columns under load.

GS structural members

- . beams (supports)
- Timoshenko beams

RT columns (supports) Euler-Bernoulli beams

tin

GS chemical elements

. . tin isotopes metals

. tin

. . tin isotopes

# tin alloys

GS alloys

. tin alloys

. babbitt metal

bearing alloys bismuth alloys indium alloys solders

stannides Zircaloys (trademark)

# tin compounds

GS tin compounds

. organic tin compounds

. stannates

. stannides

. . niobium stannides

tin oxides . tin tellurides

RT ∞ chemical compounds

∞ Group 4A compounds

∞ metal compounds

#### tin isotopes

GS chemical elements

. nuclides

. . isotopes

... tin isotopes

. tin

. . tin isotopes

metals

. tin

. . tin isotopes

### tin oxides

chalcogenides . oxides GS

. . metal oxides

. . tin oxides

tin compounds

tin oxides

RT SIS (semiconductors)

### tin tellurides

GS chalcogenides

. tellurides

tin tellurides

tellurium compounds

tellurides

tin tellurides

tin compounds

tin tellurides

# tip driven rotors

hot cycle propulsion system

GS airfoils

. wings

. . rotary wings

. . tip driven rotors

rotating bodies

. rotors

. . rotary wings

tip driven rotors

XV-9A aircraft

# tip speed

rates (per time)

. tip speed

velocity

. tip speed angular velocity

critical velocity rotor speed

### tip vanes

DEF Wing mounted rotor tips with their spans oriented approximately parallel to the local free stream to increase the capture area and power output of the rotor.

GS rotating bodies

. rotors

. tip vanes

turbomachinery

. turbines . . wind turbines

... tip vanes

# tips

GS tips

. blade tips

. crack tips

. nose tips wing tips

airfoil profiles

edges

# tires

GS tires

. aircraft tires

blowouts inflatable structures

landing gear rollers toroidal wheels

treads vehicle wheels

wheel brakes wheels

#### TIROS 1 satellite

GS artificial satellites

. meteorological satellites

. . TIROS satellites . TIROS 1 satellite

RT Thor Able rocket vehicle

# TIROS 2 satellite

GS artificial satellites

. meteorological satellites

. . TIROS satellites

. TIROS 2 satellite RT Delta launch vehicle

# **TIROS 3 satellite**

GS artificial satellites

. meteorological satellites

. . TIROS satellites

TIROS 3 satellite Delta launch vehicle

**TIROS 4 satellite** TIROS D satellite

artificial satellites

. meteorological satellites

. . TIROS satellites

. TIROS 4 satellite Delta launch vehicle

TIROS 5 satellite

TIROS E satellite

artificial satellites . meteorological satellites

. . TIROS satellites

TIROS 5 satellite Delta launch vehicle

# TIROS 6 satellite

RT

UF TIROS F satellite

artificial satellites

. meteorological satellites

. . TIROS satellites

. TIROS 6 satellite Delta launch vehicle

# TIROS 7 satellite

UF TIROS G satellite

artificial satellites

. meteorological satellites

. . TIROS satellites ... TIROS 7 satellite

Delta launch vehicle

**TIROS 8 satellite** 

UF TIROS H satellite GS artificial satellites

. meteorological satellites
. . TIROS satellites

... TIROS 8 satellite

| RT Delta launch vehicle   | GS artificial satellites   | ∞ biology  |
|---|--|--|
| TIROS 9 satellite   | . meteorological satellites  | cancer   |
| UF TIROS wheel satellite  | TIROS satellites ITOS satellites   | ∞ cells<br>cells (biology)   |
| GS artificial satellites  | ITOS 1   | cultivation  |
| . meteorological satellites   | ITOS 2   | cystic fibrosis  |
| TIROS satellites  | ITOS 3   | cysts  |
| TIROS 9 satellite   | ITOS 4   | fibroblasts  |
| RT Delta launch vehicle   | TIROS 1 satellite  | fibrosis   |
| TIROS 10 satellite  | TIROS 2 satellite<br>TIROS 3 satellite   | histochemical analysis<br>histology  |
| GS artificial satellites  | TIROS 3 satellite  | infarction   |
| . meteorological satellites   | TIROS 5 satellite  | macrophages  |
| TIROS satellites  | TIROS 6 satellite  | mediastinum  |
| TIROS 10 satellite  | TIROS 7 satellite  | necrosis   |
| RT Delta launch vehicle   | TIROS 8 satellite  | organs   |
| TIROS D satellite   | TIROS 9 satellite  | osteogenesis   |
| USE TIROS 4 satellite   | TIROS 10 satellite<br>TIROS M  | peritoneum<br>tissue engineering   |
|   | TIROS M  | ussue engineering  |
| TIROS E satellite   | NOAA 6 satellite   | Titan  |
| USE TIROS 5 satellite   | RT cloud photography   | DEF A satellite of Saturn orbiting at a mean   |
| TIROS F satellite   | ESSA satellites  | distance of 1,222,000 kilometers.  |
| USE TIROS 6 satellite   | polar orbits   | GS celestial bodies  |
|   | satellite observation  | . natural satellites   |
| TIROS G satellite   | TIROS wheel satellite  | Saturn satellites  |
| USE TIROS 7 satellite   | USE TIROS 9 satellite  | <b>Titan</b> RT atmospheric composition  |
| TIDOS II catallita  | OOL TIKOS 9 Satellite  | Cassini mission  |
| TIROS H satellite USE TIROS 8 satellite   | tissue culturing   | Charon   |
| USE TIROS & Satellite   | (added August 2004)  | Huygens probe  |
| TIROS M   | DEF Maintaining or growing of tissue, organ  | satellite atmospheres  |
| GS artificial satellites  | primordia, or the whole or part of an organ in   | Saturn (planet)  |
| . meteorological satellites   | vitro so as to preserve its architecture and/or  | Titan atmosphere   |
| TIROS satellites  | function. Tissue culturing includes both organ   | Triton   |
| TIROS M   | culturing and cell culturing.  | T' 4 10DM  |
| RT ITOS 1   | GS culture techniques . tissue culturing   | Titan 1 ICBM   |
| ITOS 2  | RT cell culturing  | UF SM-68 missile GS missiles   |
| ITOS 3<br>ITOS 4  | clone cells  | . ballistic missiles   |
| ITOS 4  | culture media  | intercontinental ballistic missiles  |
| 1100 Satemes  | cultured cells   | Titan ICBM   |
| TIROS N series satellites   | microbiology   | Titan 1 ICBM   |
| DEF A new term for the family of satellites   | organ culturing  | . surface to surface missiles  |
| designed to prototype Tiros N.  | tissue engineering   | intercontinental ballistic missiles  |
| 00 (6.1.1.4.11)   |  | Titan ICBM   |
| GS artificial satellites  | Manage and an almost and an  |  |
| . meteorological satellites   | tissue engineering   | Titan 1 ICBM   |
| <ul><li>meteorological satellites</li><li>. TIROS satellites</li></ul>  | (added October 2000)   |  |
| . meteorological satellites TIROS satellites TIROS N series satellites  | (added October 2000) DEF Discipline for the in vitro growth and  | Titan 1 ICBM<br>RT LR-87-AJ-5 engine   |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the  | Titan 1 ICBM  RT LR-87-AJ-5 engine  Titan 2 ICBM   |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite RT Advanced Microwave Sounding Unit   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its  | Titan 1 ICBM  RT LR-87-AJ-5 engine  Titan 2 ICBM  UF SM-68B missile  |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the  | Titan 1 ICBM  RT LR-87-AJ-5 engine  Titan 2 ICBM  UF SM-68B missile  |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.   | Titan 1 ICBM RT LR-87-AJ-5 engine  Titan 2 ICBM UF SM-68B missile GS missiles  |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer  | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  | Titan 1 ICBM  RT LR-87-AJ-5 engine  Titan 2 ICBM  UF SM-68B missile  GS missiles  ballistic missiles  intercontinental ballistic missiles  Titan 1CBM  |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer ITOS 1   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  . tissue engineering  | Titan 1 ICBM  RT LR-87-AJ-5 engine  Titan 2 ICBM  UF SM-68B missile  GS missiles  . ballistic missiles  . intercontinental ballistic missiles  . Titan ICBM  . Titan 2 ICBM  |
| . meteorological satellites TIROS satellites TIROS N series satellites NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer ITOS 1 ITOS 2 ITOS 3 ITOS 4  | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  tissue engineering technologies   | Titan 1 ICBM  RT LR-87-AJ-5 engine  Titan 2 ICBM  UF SM-68B missile  GS missiles . ballistic missiles . intercontinental ballistic missiles . Titan ICBM . Titan 2 ICBM . surface to surface missiles  |
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| . meteorological satellites . TIROS satellites . TIROS N series satellites TIROS N series satellites NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer ITOS 1 ITOS 2 ITOS 3 ITOS 4 ITOS satellites NOAA 7 satellite TIROS operational satellite system RT cloud photography ITOS 1 ITOS 2 ITOS 3 ITOS 4 satellite observation ∞ systems TIROS N series satellites  TIROS project GS programs . NASA programs . NASA space programs . TIROS project . space programs . NASA space programs . TIROS project . space programs . NASA space programs . TIROS project . space programs . NASA space programs . TIROS project . space programs . NASA space programs . TIROS project . space programs . TIROS project RT cloud photographs cloud photography meteorological satellites  TIROS satellites  | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  | Titan 1 ICBM RT LR-87-AJ-5 engine  Titan 2 ICBM UF SM-68B missile GS missiles . ballistic missiles . intercontinental ballistic missiles . Titan ICBM . Titan 2 ICBM . Surface to surface missiles . intercontinental ballistic missiles . Titan ICBM . Titan 2 ICBM . Titan 2 ICBM . Titan 2 ICBM RT Hyla-Star rocket vehicle  Titan 3 launch vehicle GS launch vehicle GS launch vehicles . Titan 3 launch vehicle rocket vehicles . Titan 3 launch vehicle rocket vehicles . Titan 1 launch vehicle RT manned orbital laboratories  Titan 4 launch vehicle (added February 1993) GS launch vehicles . Titan launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan 4 launch vehicle . Titan Centaur launch vehicle   |
| . meteorological satellites . TIROS satellites . TIROS N series satellites . NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer ITOS 1 ITOS 2 ITOS 3 ITOS 4 ITOS satellites NOAA 7 satellite TIROS operational satellite system RT cloud photography ITOS 1 ITOS 2 ITOS 3 ITOS 4 satellite observation  systems TIROS N series satellites  TIROS project GS programs . NASA programs . NASA space programs . TIROS project . projects . TIROS project . space programs . NASA space programs . NASA space programs . TIROS project   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  | Titan 1 ICBM RT LR-87-AJ-5 engine  Titan 2 ICBM UF SM-68B missile GS missiles  |
| . meteorological satellites . TIROS satellites . TIROS N series satellites . NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer ITOS 1 ITOS 2 ITOS 3 ITOS 4 ITOS satellites NOAA 7 satellite TIROS operational satellite system RT cloud photography ITOS 1 ITOS 2 ITOS 3 ITOS 4 satellite observation  systems TIROS n series satellites  TIROS project GS programs . NASA programs . NASA programs . NASA programs . TIROS project . projects . TIROS project . space programs . NASA space programs . NASA space programs . TIROS project . space programs . NASA space programs . TIROS project . space programs . TIROS project . space programs . TIROS project . space programs . TIROS project . space programs . TIROS project . TIROS project . space programs . TIROS project | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  | Titan 1 ICBM RT LR-87-AJ-5 engine  Titan 2 ICBM UF SM-68B missile GS missiles  |
| . meteorological satellites . TIROS satellites . TIROS N series satellites . NOAA 6 satellite RT Advanced Microwave Sounding Unit Advanced Very High Resolution Radiometer ITOS 1 ITOS 2 ITOS 3 ITOS 4 ITOS satellites NOAA 7 satellite TIROS operational satellite system RT cloud photography ITOS 1 ITOS 2 ITOS 3 ITOS 4 satellite observation  systems TIROS N series satellites  TIROS project GS programs . NASA programs . NASA space programs . TIROS project . projects . TIROS project . space programs . NASA space programs . NASA space programs . TIROS project   | (added October 2000)  DEF Discipline for the in vitro growth and maintenance of tissue, organ primordia, or the whole or part of an organ so as to preserve its architecture and/or function. In terms of application, the primary goal of this technology is the replacement of deficient organs.  GS bioengineering  | Titan 1 ICBM RT LR-87-AJ-5 engine  Titan 2 ICBM UF SM-68B missile GS missiles  |

|                                   | aunch vehicle                    |                 | launching                                 |                    | lead zirconate titanates  |
|-----------------------------------|----------------------------------|-----------------|---|--------------------|---|
|                                   | B launch vehicle                 | 4:40=040        | _   |                    | magnesium titanates   |
| rocket vehic                      | rocket vehicles                  | titanates<br>GS | titanium compounds                        |                    | perovskites strontium titanates   |
|                                   | nch vehicles                     | 00              | . titanates                               |                    | zirconium titanates   |
|                                   | launch vehicle                   |                 | barium titanates                          |                    | lead zirconate titanates  |
|                                   | 4B launch vehicle                |                 | ilmenite                                  |                    | . titanium borides  |
| RT Cassini mis                    | sion                             |                 | lead titanates                            |                    | . titanium carbides   |
| laser gyroso                      | copes                            |                 | lead zirconate titanates                  |                    | . titanium chlorides  |
|                                   |                                  |                 | magnesium titanates                       |                    | . titanium nitrides   |
| Titan atmosphere                  |                                  |                 | perovskites                               |                    | . titanium oxides   |
| (added May 2005                   |                                  |                 | . strontium titanates                     |                    | anatase   |
|                                   | phere surrounding the Sat-       |                 | zirconium titanates                       |                    | ilmenite  |
| urnian satellite Titan.           |                                  | RT              | lead zirconate titanates euxenite         |                    | rutile  |
| GS environmen                     |                                  | KI              | euxernite                                 | DT                 | . titanium aluminides<br>chemical compounds   |
|                                   | strial environments              | Titania         |   |                    | Group 4B compounds  |
| Titan a                           | atmospheres<br>tmosphere         | DEF             | A satellite of Uranus orbiting at a mean  |                    | metal compounds   |
| RT Cassini mis                    |                                  | distance        | of 438,000 kilometers.                    |                    |   |
| Huygens pr                        |                                  | GS              | celestial bodies                          | titanium           | dioxide   |
| Saturn (plar                      |                                  |                 | . natural satellites                      | USE                | titanium oxides   |
| Titan                             | •                                |                 | icy satellites                            |                    |   |
|                                   |                                  |                 | Titania                                   |                    | isotopes  |
| Titan Centaur laund               | ch vehicle                       |                 | Uranus satellites                         | GS                 | chemical elements   |
|                                   | rocket augmented with a          | DT              | Titania                                   |                    | . nuclides  |
|                                   | aunching spacecraft requir-      | RT              | Uranus (planet)                           |                    | isotopes titanium isotopes  |
| ing high-velocity esc             |                                  | titanium        |   |                    | . titanium  |
| GS launch vehi                    |                                  | GS              | chemical elements                         |                    | titanium isotopes   |
|                                   | taur launch vehicle              |                 | . titanium                                |                    | metals  |
| rocket vehic                      | itaur launch vehicle             |                 | titanium isotopes                         |                    | . transition metals   |
| RT Centaur lau                    |                                  |                 | metals                                    |                    | titanium  |
| Titan 4 laun                      |                                  |                 | . transition metals                       |                    | titanium isotopes   |
| man naan                          | ion voniolo                      |                 | titanium                                  |                    |   |
| Titan ICBM                        |                                  |                 | titanium isotopes                         |                    | nitrides  |
| GS missiles                       |                                  | 414.0           | alleve                                    | GS                 | nitrogen compounds  |
| . ballistic mi                    | issiles                          | titanium<br>GS  | alloys                                    |                    | . nitrides  |
| interconti                        | inental ballistic missiles       | GS              | . titanium alloys                         |                    | metal nitrides titanium nitrides  |
| Titan IC                          | CBM                              |                 | nitinol alloys                            |                    | titanium compounds  |
| Titan <i>1</i>                    |                                  | RT              | aluminides                                |                    | . titanium nitrides   |
| Titan 2                           |                                  |                 | shape memory alloys                       | RT                 | ceramic matrix composites   |
|                                   | surface missiles                 |                 | titanium aluminides                       |                    | ,   |
|                                   | inental ballistic missiles       |                 | vanadium alloys                           | titanium           | oxides  |
| <b>Titan IC</b><br>Titan <i>1</i> |                                  |                 |   | UF                 | titanium dioxide  |
| Titan 2                           |                                  |                 | aluminides                                | GS                 | chalcogenides   |
|                                   | ellant rocket engines            |                 | ed June 1997)                             |                    | . oxides  |
| LR-91-AJ-5                        |                                  | GS              | aluminum compounds                        |                    | metal oxides  |
|                                   | rocket vehicles                  |                 | . aluminides                              |                    | titanium oxides   |
| YLR-91-AJ-                        |                                  |                 | titanium aluminides<br>titanium compounds |                    | anatase<br>ilmenite   |
|                                   | · ·                              |                 | . titanium aluminides                     |                    | rutile  |
| Titan launch vehicle              | es                               | RT              | intermetallics                            |                    | titanium compounds  |
| GS launch vehi                    | cles                             |                 | titanium alloys                           |                    | . titanium oxides   |
|                                   | nch vehicles                     |                 | ,   |                    | anatase   |
|                                   | aunch vehicle                    | titanium        | borides                                   |                    | ilmenite  |
|                                   | aunch vehicle                    | GS              | boron compounds                           |                    | rutile  |
|                                   | B launch vehicle                 |                 | . borides                                 | RT                 | dioxides  |
| rocket vehic                      |                                  |                 | titanium borides                          |                    |   |
|                                   | rocket vehicles<br>unch vehicles |                 | titanium compounds                        | titration          |   |
|                                   | launch vehicle                   |                 | . titanium borides                        |                    | The determination of the reactive ca-   |
|                                   | launch vehicle                   | titanium        | carbides                                  | pacity, u          | sually of a solution, especially, the ana-<br>ocess of successively adding measured |
|                                   | 4B launch vehicle                |                 | carbon compounds                          |                    | s of a reagent (as a standard solution) to  |
| RT Gemini 3 fli                   |                                  | 00              | . carbides                                |                    | volume or weight of a sample or sample  |
| Gemini 7 fli                      | ght                              |                 | titanium carbides                         |                    | until a desired end point is reached.   |
| Gemini 8 fli                      |                                  |                 | titanium compounds                        |                    | chemical reactions  |
| Gemini 9 fli                      |                                  |                 | titanium carbides                         |                    | . titration   |
| Gemini 10 f                       |                                  | RT              | ceramic fibers                            | RT                 | acidity   |
| Gemini 11 f                       |                                  |                 | ceramic matrix composites                 |                    | coulometers   |
| Gemini 12 f                       | 9                                |                 |   |                    | iodimetry   |
|                                   | Illant rocket engines            |                 | chlorides                                 |                    | ion concentration   |
| ∞ vehicles                        | lant rocket engines              | GS              | halogen compounds                         |                    | Kjeldahl method   |
| ∞ verildes                        |                                  |                 | . chlorine compounds<br>chlorides         |                    | solutions   |
| Titan project                     |                                  |                 | titanium chlorides                        | titrimete          | ore   |
| GS programs                       |                                  |                 | . halides                                 | GS                 | measuring instruments   |
| . NASA pro                        | grams                            |                 | chlorides                                 | -                  | . titrimeters   |
|                                   | pace programs                    |                 | titanium chlorides                        | RT                 | chemical analysis   |
| Titan p                           |                                  |                 | metal halides                             |                    | •   |
| . projects                        |                                  |                 | titanium chlorides                        | TNO (as            | stronomy)   |
| Titan pro                         |                                  |                 | titanium compounds                        |                    | ed June 2006)   |
| . space pro                       |                                  |                 | . titanium chlorides                      | USE                | trans-Neptunian objects   |
|                                   | pace programs                    |                 |   | <b>T</b> . T. C. : | ****  |
| Titan p                           | roject                           |                 | compounds                                 |                    | nitrotoluene)   |
| RT ∞ boosters                     | inct                             | GS              | titanium compounds                        | USE                | trinitrotoluene   |
| Gemini proj<br>Gemini spa         |                                  |                 | . titanates barium titanates              | tobacco            | •   |
| launch vehi                       |                                  |                 | ilmenite                                  | GS                 | plants (botany)   |
| launchers                         | 0.00                             |                 | lead titanates                            | 00                 | . tobacco   |
|                                   |                                  |                 |   |                    | 995   |

| RT                | nicotine   |                                      | biocontrol systems  |   | Tonk meteorite   |
|-------------------|--|--------------------------------------|---|---|--|
|                   |  |                                      | impact resistance   |   |  |
| tocoph            |  |                                      | noise tolerance   | tonome  |  |
| UF<br>GS          | vitamin E organic compounds  |                                      | orthostatic tolerance   | USE   | intraocular pressure   |
| GS                | . cyclic compounds   |                                      | physiology  |   | pressure measurement   |
|                   | heterocyclic compounds   |                                      | range (extremes)<br>- resistance  | tonus   |  |
|                   | tocopherol   | Ĭ                                    | · resistance  | USE   | muscular tonus   |
|                   | . lipids   |                                      |   |   |  |
|                   | tocopherol   |                                      | n-Schlichting waves   | tooling   |  |
|                   | vitamins   |                                      | ed May 1988)<br>elastic waves   | RT ∘  | automation   |
|                   | . tocopherol   | 63                                   | . Tollmien-Schlichting waves  |   | machining  |
| T                 |  | RT                                   | Blasius flow  |   | mechanization  |
| <b>Togo</b><br>GS | nations  |                                      | boundary layer flow   |   | setups<br>tools  |
| 03                | . Togo   |                                      | boundary layer transition   |   | 10013  |
| RT                | Africa   |                                      | laminar flow  | tools   |  |
|                   |  |                                      | turbulent flow  | GS  | tools  |
| toilets           |  |                                      |   |   | . drill bits   |
| RT                | human wastes   | toluene                              |   |   | . drills   |
|                   | sanitation   | GS                                   | organic compounds   |   | . files (tools)  |
|                   | spacecrews   |                                      | . hydrocarbons  |   | . hammers electromagnetic hammers  |
|                   | waste disposal   |                                      | toluene   |   | . machine tools  |
| tokama            | k devices  | RT                                   | solvents  |   | boring machines  |
|                   | Experimental torroidal magnetic con-   |                                      | xylene  |   | grinding machines  |
| finemen           | t devices where torroidal current runs   |                                      |   |   | lathes   |
| through           | the plasma in order to produce fusion  |                                      | awk missiles  |   | turret lathes  |
|                   | like plasma conditions. The name is a  | GS                                   | missiles  |   | milling machines   |
|                   | acronym for torroidal magnetic current.  |                                      | . surface to surface missiles   |   | shapers  |
| GS                | nuclear reactors . tokamak devices   |                                      | cruise missiles Tomahawk missiles   |   | . saws   |
|                   | . Joint European Torus   | RT                                   | weapons   |   | . shears . software development tools  |
|                   | plasma generators  | 131                                  | Waapana   |   | . space tools  |
|                   | . tokamak devices  |                                      |   |   | . wrenches   |
|                   | Joint European Torus   | tomato                               |   | RT  | antiquities  |
| RT                | beam injection   |                                      | ed June 1990)<br>farm crops   |   | anvils   |
|                   | beta factor  | 00                                   | . tomatoes  |   | cutters  |
|                   | bumpy toruses  | RT                                   | agriculture   |   | fixtures   |
|                   | divertors (fusion reactors)  |                                      | botany  | 0   | hardware   |
| •                 | electric power<br>limiters (fusion reactors)   | c                                    | o crops   |   | jigs<br>kits   |
|                   | nuclear fusion   | c                                    | o food  | ۰   | machinery  |
|                   | plasma compression   |                                      | seeds   |   | mechanical devices   |
|                   | plasma control   |                                      |   |   | mechanization  |
|                   | plasma physics   | tombolo                              | os .  |   | platens  |
|                   | poloidal flux  | USE                                  | bars (landforms)  |   | presses  |
|                   | Q values (nuclear physics)   |                                      |   | 0   | production   |
| 0                 | o reactors   | tomogr                               | anhv  |   | taps   |
|                   | spheromaks   |                                      | Technique of making radiographs of  |   | tooling  |
| toleran           | ces (mechanics)  |                                      | ections of a body or an object; its pur-  |   | ultrasonic cleaning  |
|                   | A group of prescribed limits for specific  |                                      | to show detail in a predetermined plane   | tooth d   | iseases  |
|                   | es of a particular material.   |                                      | ody, while blurring the images of struc-  | UF  | aerodontalgia  |
| GS                | tolerances (mechanics)   |                                      | other planes. Used for planigraphy.   | GS  | diseases   |
|                   | . impact tolerances  |                                      | planigraphy   |   |  |
|                   | acceptability  |                                      |   |   | tooth diseases   |
| RT                |  |                                      | imagery<br>radiography  | RT  | cavities   |
| RT                | accuracy   |                                      | . radiography   | RT  | cavities<br>dental calculi   |
| RT                | accuracy<br>allowances   |                                      | . radiography <b>tomography</b>   | RT  | cavities<br>dental calculi<br>dentistry  |
| RT                | accuracy<br>allowances<br>clearances   | RT                                   | . radiography   | RT  | cavities<br>dental calculi<br>dentistry<br>oral hygiene  |
| RT                | accuracy<br>allowances<br>clearances<br>consistency  |                                      | . radiography tomography computer aided tomography computer graphics ground penetrating radar   | RT  | cavities<br>dental calculi<br>dentistry  |
| RT                | accuracy<br>allowances<br>clearances   |                                      | . radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement   | RT<br>TOPEX   | cavities<br>dental calculi<br>dentistry<br>oral hygiene  |
| RT                | accuracy<br>allowances<br>clearances<br>consistency<br>dimensional stability   |                                      | . radiography . tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing   | <b>TOPEX</b><br>DEF   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis   |                                      | . radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement   | <b>TOPEX</b><br>DEF<br>Experim                                  | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography ent, a proposed mission to utilize satel-  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection  | RT                                   | . radiography . tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing   | TOPEX<br>DEF<br>Experim<br>lite altin                           | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- tetry to map the surface topography of  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity  | RT<br>TOMS                           | . radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  | TOPEX DEF Experim lite altin the oce                            | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties  | RT                                   | . radiography . tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing   | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography ent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests   | RT<br>TOMS                           | . radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography ient, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are Gulf Stream   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision   | RT<br>TOMS                           | . radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography ent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests   | RT<br>TOMS<br>USE                    | . radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terry to map the surface topography of an from which the ocean currents are Gulf Stream maritime satellites   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control   | RT  TOMS USE  tone                   | . radiography . tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- tery to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability  | TOMS<br>USE<br>tone<br>USE           | . radiography . tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution   | RT  TOMS USE  tone                   | . radiography . tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity   | TOMS<br>USE<br>tone<br>USE<br>tongue | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch   | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terty to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states  |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications  | TOMS USE tone USE tongue GS          | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy . digestive system . tongue  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability  | TOMS<br>USE<br>tone<br>USE<br>tongue | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy digestive system tongue mouth  | TOPEX DEF Experim lite altin the oce derived. RT                | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography   |
| RT                | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications  | TOMS USE tone USE tongue GS          | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy . digestive system . tongue  | TOPEX DEF Experim lite altin the oce derived.                   | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography   |
|                   | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability  | TOMS USE tone USE tongue GS          | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy digestive system tongue mouth  | TOPEX DEF Experim lite altin the oce derived. RT                | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography lent, a proposed mission to utilize satel- letry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface ocean surface oceanography Poseidon satellite satellite observation sea states topography  Inphy  |
|                   | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  | TOMS USE tone USE tongue GS          | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy . digestive system . tongue mouth voice eteorite   | TOPEX DEF Experim lite altin the oce derived. RT                | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography teeth, a proposed mission to utilize satel- terty to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography  Iphy landscape  |
| tolerand          | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  ces (physiology) tolerances (physiology) . acceleration tolerance   | TOMS USE tone USE tongue GS          | radiography . tomography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy . digestive system . tongue mouth voice eteorite celestial bodies   | TOPEX DEF Experim lite altin the oce derived. RT  topogra UF GS | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography lent, a proposed mission to utilize satelletry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface ocean surface oceanography Poseidon satellite satellite observation sea states topography landscape topography . lunar topography . lunar topography . terrain                              |
| tolerand          | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  ces (physiology) tolerances (physiology) . acceleration tolerance . altitude tolerance  | TOMS USE tone USE tongue GS          | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy digestive system tongue mouth voice  eteorite celestial bodies meteorites  | TOPEX DEF Experim lite altin the oce derived. RT                | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography lent, a proposed mission to utilize satel- letry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography  landscape topography lunar topography terrain altimetry  |
| tolerand          | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  ces (physiology) tolerances (physiology) . acceleration tolerance . altitude tolerance . cold tolerance                                     | TOMS USE tone USE tongue GS          | radiography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy digestive system tongue mouth voice  eteorite celestial bodies meteorites stony meteorites stomography comparation | TOPEX DEF Experim lite altin the oce derived. RT  topogra UF GS | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terty to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography  Inphy landscape topography . Lunar topography . terrain altimetry badlands                                   |
| tolerand          | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  ces (physiology) tolerances (physiology) . acceleration tolerance . altitude tolerance . heat tolerance                                     | TOMS USE tone USE tongue GS          | radiography . tomography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy . digestive system . tongue mouth voice  eteorite celestial bodies . meteorites stony meteorites carbonaceous meteorites  | TOPEX DEF Experim lite altin the oce derived. RT  topogra UF GS | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography ent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography landscape topography . Iunar topography . terrain altimetry badlands barren land                               |
| tolerand          | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  ces (physiology) tolerances (physiology) . acceleration tolerance . altitude tolerance . cold tolerance . heat tolerance . human tolerances | TOMS USE tone USE tongue GS          | radiography tomography computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy digestive system tongue mouth voice  eteorite celestial bodies meteorites stony meteorites carbonaceous meteorites carbonaceous chondrites   | TOPEX DEF Experim lite altin the oce derived. RT  topogra UF GS | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography tent, a proposed mission to utilize satel- terry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography landscape topography landscape topography . lunar topography . terrain altimetry badlands barren land beaches |
| tolerand          | accuracy allowances clearances consistency dimensional stability drift (instrumentation) errors hysteresis inspection linearity mechanical properties nondestructive tests precision quality control radiation tolerance range (extremes) reliability resolution sensitivity specifications stability standards  ces (physiology) tolerances (physiology) . acceleration tolerance . altitude tolerance . heat tolerance                                     | TOMS USE tone USE tongue GS          | radiography . tomography . tomography . computer aided tomography computer graphics ground penetrating radar image enhancement optical data processing x ray analysis  Total Ozone Mapping Spectrometer  pitch  anatomy . digestive system . tongue mouth voice  eteorite celestial bodies . meteorites stony meteorites carbonaceous meteorites  | TOPEX DEF Experim lite altin the oce derived. RT  topogra UF GS | cavities dental calculi dentistry oral hygiene teeth  The NASA Ocean Surface Topography ent, a proposed mission to utilize satel- netry to map the surface topography of an from which the ocean currents are  Gulf Stream maritime satellites ocean currents ocean surface oceanography Poseidon satellite satellite observation sea states topography landscape topography . Iunar topography . terrain altimetry badlands barren land                               |

Barany chair

| cusps (landforms)   |  | tric spacecraft  | stellarators  |
|---|--|--|---|
| ∞ depression  |  | ary spacecraft   | 1.1.11  |
| desertline  | . TOPS (sp   | ,  |   |
| deserts   | RT flyby mission   |  | shells (structural forms)   |
| digital elevation models  | interplaneta   |  | . toroidal shells   |
| dunes   | outer plane  | ts explorers RT  | metal shells  |
| Earth surface   | space explo  | oration  | reinforced shells   |
| elevation   | space miss   | ions   | skin (structural member)  |
| elevation angle   | ∞ spacecraft   |  | thin walled shells  |
| escarpments   |  |  | toroids   |
| geodesy   | torches  |  |   |
| geodetic surveys  |  | toroida  | I wheels  |
| geomorphology   |  | DEF  | Doughnut-shaped wheels designed   |
| geophysics  | . plasma to  | particula  | arly for vehicles used in soft, granular soil   |
| gulfs   | RT cutting   | (planeta   | ary surfaces). Used for doughnut shape  |
| highlands   | pyrogen  | wheels.  |   |
| hypsography   | welding  | ,. UF  | doughnut shape wheels   |
| isthmuses   | welding ma   | chines   | wheels  |
| Jupiter red spot  |  |  | . toroidal wheels   |
| lagoons   | Tornado aircraft   | RT   | roving vehicles   |
| land  | USE MRCA airc  |  | suspension systems (vehicles)   |
| landforms   |  |  | tires   |
| landmarks   |  |  | vehicle wheels  |
| ledges  | tornadoes  |  |   |
| mapping   | GS storms  | toroids  |   |
|   | . storms (m  | eteorology)  | ∞ coils   |
| maria<br>Mara auritana  | tornado  | es   | ∘ curves  |
| Mars surface  | · ·  | c circulation °  | geometry  |
| meanders  | cold fronts  |  | inductors   |
| muskegs   | cumulonimb   | ous clouds   |   |
| oceanography  | cyclones   |  | ion impact  |
| peaks (landforms)   | fronts (mete   | eorology)  | magnet coils  |
| photomapping  | Fujita meth  |  | magnetic cores  |
| plains  | ground wine  |  | toroidal shells   |
| planetary surfaces  | hurricanes   | 1  | transformers  |
| ∞ profiles  |  | wara Starms Project  |   |
| ravines   |  | evere Storms Project torpedo   | o engines   |
| relief maps   | rainstorms   | GS   | engines   |
| satellite altimetry   | storm dama   |  | . torpedo engines   |
| shallow water   | tropical stor  | ms   | turborocket engines   |
|   | typhoons   |  | ullage rocket engines   |
| slopes  | warm fronts  | ;  | Vernier engines   |
| stairsteps  | wind (meter  | orology)   | control rockets   |
| surface roughness   |  |  | SYNCOM apogee engines   |
| TOPEX   | Tava actoraid  | RT   | internal combustion engines   |
| Valleve   |  |  |   |
| valleys   | Toro asteroid  |  |   |
| Venus surface   | GS celestial bo  |  | rocket propellants  |
|   | GS celestial bo<br>. asteroid b  | elts   | turbine engines   |
| Venus surface<br>wadis  | GS celestial bo<br>. asteroid b<br><b>Toro ast</b>   | elts   |   |
| Venus surface wadis topology  | GS celestial bo . asteroid b Toro ast . asteroids  | elts<br>e <b>eroid</b>   | turbine engines<br>underwater propulsion  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast   | elts<br>eroid<br>eroid torpedo   | turbine engines<br>underwater propulsion<br>pes   |
| Venus surface wadis  topology GS geometry . topology  | GS celestial bo . asteroid b Toro ast . asteroids  | elts<br>reroid<br>reroid torpedd<br>UF   | turbine engines underwater propulsion  bes RETORC (torpedoes)   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics)   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast   | elts<br>seroid<br>seroid torpedo<br>UF   | turbine engines<br>underwater propulsion<br>pes   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids   | elts<br>ieroid<br>ieroid torpedd<br>UF<br>m GS   | turbine engines underwater propulsion  bes RETORC (torpedoes)   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics)   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids solar syster  | elts<br>ieroid<br>ieroid torpedd<br>UF<br>m GS   | turbine engines underwater propulsion  pes RETORC (torpedoes) explosive devices   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids solar syster space debr   | elts eroid  teroid  UF GS  | turbine engines underwater propulsion  pes RETORC (torpedoes) explosive devices torpedoes   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics)  | GS celestial bo  | elts eroid  teroid  UF  GS is  | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition  |
| Venus surface wadis  topology GS geometry topology fixed points (mathematics) homotopy theory imbeddings (mathematics) invariant imbeddings   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi  | elts eroid  teroid  UF GS is RT  | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) invariant imbeddings . links (mathematics) metric space  | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curr . electric dis   | elts teroid  teroid  teroid  UF GS is  RT  rent scharges   | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance)  |
| Venus surface wadis  topology GS geometry topology fixed points (mathematics) homotopy theory imbeddings (mathematics) invariant imbeddings links (mathematics)   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric cur . electric dis Townsen  | elts ieroid  teroid  teroid  UF m GS is  RT  rent scharges d discharge   | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations   |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b Toro ast . asteroids Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric dis Townsen gas dis   | elts ieroid  teroid  teroid  UF m GS is  RT  rent scharges id discharge charges  | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures   |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curr . electric dis . Townsen . gas dis toroid  | elts teroid  teroid  teroid  UF m GS is  RT  rent scharges d discharge charges dal discharge   | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives  |
| Venus surface wadis  topology GS geometry topology fixed points (mathematics) homotopy theory imbeddings (mathematics) invariant imbeddings links (mathematics) metric space Hilbert space Hilbert space Sobolev space RT catastrophe theory cells  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic  | elts teroid  teroid  teroid  UF  GS is  RT  rent scharges id discharge charges tal discharge discharge   | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . linvariant imbeddings . links (mathematics) . metric space . Hilbert space Sobolev space  RT catastrophe theory ∞ cells continuity   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curr . electric dis . Townsen gas dis toroic ring RT electrodeles   | elts teroid  teroid  UF m GS is  RT  rent scharges d discharge charges dlal discharge discharge discharge ss discharges stall discharge ss discharges ss discharges  | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space Hilbert space Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics)   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic  | elts teroid  teroid  UF m GS is  RT  rent scharges d discharge charges dlal discharge discharge discharge ss discharges stall discharge ss discharges ss discharges  | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space . Hilbert space . Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continums   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curr . electric dis . Townsen gas dis toroic ring RT electrodeles   | elts teroid  teroid  teroid  UF  GS  is  RT  rent scharges d discharge charges tald discharge discharge discharge ss discharges so discharge ss discharges ncies   | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants  |
| Venus surface wadis  topology  GS geometry  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curr . electric dis . Townsen   | elts ieroid  teroid  teroid  teroid  UF  GS is  RT  rent scharges id discharge charges tal discharge discharge ss discharges ss discharges ncies   | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets   |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toro ast . Toroidal discharge . GS electric curr . electric dis . Townsen gas dis toroic ring . RT electrodeles . high freque . plasma jets  | elts ieroid  teroid  teroid  teroid  UF  GS is  RT  rent scharges id discharge charges tal discharge discharge ss discharges ss discharges ncies   | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . links (mathematics) . links (mathematics) . metric space . Hilbert space . Sobolev space RT catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dii . Townsen . gas dis toroic ring RT electrodele high freque plasma jets spectrum a   | elts ieroid  teroid  teroid  teroid  UF  GS is  RT  rent scharges id discharge charges tal discharge discharge ss discharges ss discharges ncies   | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants > rockets sea launching shaped charges   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space Hilbert space Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics)  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic ring RT electrodeles high freque plasma jets spectrum a  toroidal plasmas  | elts teroid  teroid  teroid  UF GS is  RT  rent scharges dd discharge charges tal discharge discharge discharge ss discharges so discharge inalysis  | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space . Hilbert space . Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . Toro ast meteoroids solar syster space debr  toroidal discharge GS electric cur . electric dis . Townsen gas dis toroic ring RT electrodelecting freque plasma jets spectrum a  toroidal plasmas UF plasma ring   | elts teroid  teroid  teroid  UF GS is  RT  rent scharges dd discharge charges tal discharge discharge discharge ss discharges so discharge inalysis  | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space . Hilbert space Sobolev space catastrophe theory cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory homology  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curr . electric dis . Townsen   | elts ieroid  i | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . links (mathematics) . links (mathematics) . metric space . Hilbert space . Sobolev space RT catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . delectric de | elts ieroid  teroid  teroid  teroid  UF  GS  is  RT  rent scharges d discharge charges ful discharge discharge sis discharge discharge sis discharge sis discharges ncies inalysis   | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . links (mathematics) . metric space . Hilbert space . Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy intervals   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen . gas dis toroic ring RT electrodelet high freque plasma jets spectrum a  toroidal plasmas UF plasma ring GS particles . charged p . energetic   | elts ieroid  ieroid  ieroid  ieroid  UF GS is  RT  rent scharges id discharge charges discharge discharge discharge inalysis  inalysis  inalysis   | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space . Hilbert space . Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continuity deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy intervals isoperimetric problem  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . delectric de | elts ieroid  ieroid  ieroid  ieroid  UF GS is  RT  rent scharges id discharge charges discharge discharge discharge inalysis  inalysis  inalysis   | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . links (mathematics) . metric space . Hilbert space . Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy intervals   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic ring RT electrodele: high freque plasma jets spectrum a  toroidal plasmas UF plasma ring GS particles . charged p . energetic plasma   | elts ieroid  ieroid  ieroid  ieroid  UF GS is  RT  rent scharges id discharge charges discharge discharge discharge inalysis  inalysis  inalysis   | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads   |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . invariant imbeddings . links (mathematics) . metric space . Hilbert space . Sobolev space catastrophe theory ∞ cells continuity continuity (mathematics) continuity deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy intervals isoperimetric problem  | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic ring RT electrodele: high freque plasma jets spectrum a  toroidal plasmas UF plasma ring GS particles . charged p . energetic plasma   | elts ieroid  i | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons   |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast meteoroids solar syster space debr  toroidal discharge GS electric cur . electric dis . Townsen gas dis toroic ring RT electrodelecting freque plasma jets spectrum a  toroidal plasmas UF plasmas UF plasma ring GS particles . charged p energetic plasma toroic   | elts ieroid  i | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . Toroidal discharge . GS electric curi. electric dii . Townsen . gas dis . troid . Ting . RT electrodelet . high freque . plasma jets . spectrum a  toroidal plasmas  UF plasma ring . GS particles . charged p . energetit plasma toroic . corpuscula  | elts seroid  teroid  teroid  UF GS is  RT  rent scharges dd discharge charges dal discharge discharge ss discharges ncies inalysis  articles c particles c particles s (physics) torque tal plasmas c particles c  | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . links (mathematics) . links (mathematics) . metric space . Hilbert space . Sobolev space RT catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy intervals isoperimetric problem manifolds (mathematics) mapping ∞ nets   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic ring RT electrodele . high freque plasma jets spectrum a  toroidal plasmas UF plasma ring GS particles . charged p energetic plasma toroic . corpuscula . energetic plasma   | elts seroid  teroid  teroid  UF GS is  RT  rent scharges dd discharge charges dal discharge discharge ss discharges ncies inalysis  articles c particles c particles s (physics) torque tal plasmas c particles c  | turbine engines underwater propulsion ces  RETORC (torpedoes) explosive devices  torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force edistance of its line of action from the sed for hinge moments.  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic ring RT electrodele . high freque plasma jets spectrum a  toroidal plasmas UF plasma ring GS particles . charged p energetic plasma toroic . corpuscula . energetic plasma   | elts ieroid  ieroid  ieroid  ieroid  ieroid  ieroid  ieroid  UF  GS  is  RT  rent scharges discharges discharges discharge discharge discharge ss discharge ss discharge ss discharges ncies inalysis  ieroid  | turbine engines underwater propulsion coes  RETORC (torpedoes) explosive devices  torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force of distance of its line of action from the sed for hinge moments.  hinge moments  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . Toroidal discharge . electric dis . Townsen . gas dis . toroid . Ting . To electrodelet . high freque . plasma jets . spectrum a  toroidal plasmas . UF plasma ring . GS particles . charged p . energetit . plasma . toroic . corpuscula . energetit . plasma . toroic . plasma . toroic . corpuscula . energetit . plasma . toroic . plasma . toroic . corpuscula . energetit . plasma . toroic . plasma . toroic . corpuscula . energetit . plasma . toroic . plasma . toroic   | elts ieroid  ieroid  ieroid  ieroid  ieroid  ieroid  ieroid  UF  GS  is  RT  rent scharges discharges discharges discharge discharge discharge ss discharge ss discharge ss discharges ncies inalysis  ieroid  | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force of distance of its line of action from the sed for hinge moments hinge moments moments torque  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . electroids . rownen . gas dis . toroid . ring . electrodelet . high freque . plasma jets . spectrum a  toroidal plasmas . UF . plasma ring . GS . charged p . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . Toroic . corpuscula . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . ET . beam inject . beta factor   | elts ieroid  ieroid  ieroid  ieroid  ieroid  UF GS is  RT  rent scharges dd discharge charges dal discharge discharge discharge ss discharges sial discharge and scharge ss discharges so particles c particles c particles s (physics) dal plasmas ar radiation c particles s (physics) UF GS dal plasmas GS dal  | turbine engines underwater propulsion ces  RETORC (torpedoes) explosive devices  torpedoes ammunition antisubmarine warfare  ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants cockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force of distance of its line of action from the sed for hinge moments.  hinge moments moments  torque bending moments  |
| Venus surface wadis  topology GS geometry . topology . fixed points (mathematics) . homotopy theory . imbeddings (mathematics) . links (mathematics) . links (mathematics) . metric space . Hilbert space . Sobolev space RT catastrophe theory ∞ cells continuity continuity (mathematics) continuums deformation dimensions fault trees fibers (mathematics) graph theory homology homotropy intervals isoperimetric problem manifolds (mathematics) mapping ∞ nets network synthesis shapes switching theory toruses trees (mathematics) | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . meteoroids . solar syster . space debr  toroidal discharge . electric dis . Townsen . gas dis toroic ring . electrodelet . high freque . plasma ring . gs . charged p . energetic . plasma toroic . corpuscula . energetic . plasma toroic . energetic . plasma toroic . corpuscula . energetic . plasma toroic . corpuscula . energetic . plasma toroic . corpuscula . energetic . plasma toroic . toroic . corpuscula . energetic . plasma toroic . toroic . corpuscula . energetic . plasma toroic . corpuscula . energetic . plasma toroic beam inject beta factor bumpy toru  | elts seroid  seroid  teroid  teroid  UF GS is  RT  rent scharges dd discharge charges dd discharge discharge discharge ss discharges sid discharge discharges alal discharge discharges ss (jenysis)  torque ar radiation c particles s (physics) torque c particles c part | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force of distance of its line of action from the sed for hinge moments. hinge moments moments torque bending moments of force  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast RT meteoroids solar syster space debr  toroidal discharge GS electric curi . electric dis . Townsen gas dis toroic ring RT electrodele: high freque plasma jets spectrum a  toroidal plasmas UF plasma ring GS particles . charged p energetic plasma toroic corpuscula energetic plasma toroic RT beam inject beta factor bumpy toru elliptical pla  | elts seroid  teroid  teroid  teroid  teroid  UF  GS  is  RT  rent scharges d discharge charges discharge discharge discharge ss discharge ss discharges ncies inalysis  torque tal plasmas   | turbine engines underwater propulsion coes  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force edistance of its line of action from the sed for hinge moments hinge moments torque bending moments force loading moments  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . Toro ast . Toro ast . Toro ast . Toroidal discharge . GS electric curic electric dis . Townsen  | elts ieroid  i | turbine engines underwater propulsion  Des RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force edistance of its line of action from the sed for hinge moments. hinge moments moments torque bending moments eforce loading moments moments of inertia  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . Toroidal discharge . electric dii . Townsen . gas dis . toroid ring . electrodele . high freque plasma jets spectrum a  toroidal plasmas UF plasma ring . particles . charged p . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . energetic . plasma . toroic . energetic . plasma . toroic . energetic . plasma . toroic . plasma . toroic . energetic . plasma . toroic . plasma . toroic . energetic . plasma . toroic . plasma . toroic . energetic . plasma . toroic   | elts ieroid  i | turbine engines underwater propulsion coes  RETORC (torpedoes) explosive devices  torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants coes a launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force of distance of its line of action from the sed for hinge moments.  hinge moments moments  force loading moments moments of inertia pitching moments  |
| Venus surface wadis  topology GS geometry   | GS celestial bo asteroid be Toro ast asteroids asteroids asteroids solar syster space debrict and the space de | elts seroid  seroid  teroid  teroid  UF GS is  RT  rent scharges id discharge charges dal discharge discharge sis discharge sis discharges sis discharges inalysis  torque liplasmas c particles c particles c particles s (physics) torque lal plasmas c particles c particles s (physics) UF c pa | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force distance of its line of action from the sed for hinge moments. hinge moments moments torque bending moments moments of inertia pitching moments rolling moments rolling moments rolling moments  |
| Venus surface wadis  topology GS geometry   | GS celestial bo asteroid be Toro ast asteroids asteroids Toro ast meteoroids solar syster space debrict curicular electric dis Townsen GS electric description of the color of | elts seroid  seroid  teroid  teroid  UF  GS  is  RT  rent scharges d discharge charges discharge discharge discharge ss discharge ss discharges so discharge ss discharge ss discharge ss discharge ss discharges ncies inalysis  torque lal plasmas ar radiation c particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) torque target discharge so discharg | turbine engines underwater propulsion coes  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force distance of its line of action from the sed for hinge moments. hinge moments moments torque bending moments moments of inertia pitching moments rolling moments rolling moments rolling moments rolling moments rotation   |
| Venus surface wadis  topology GS geometry   | GS celestial bo asteroid be Toro ast asteroids asteroids asteroids solar syster space debrill toroidal discharge GS electric curicular electric discontinuous control toroidal plasma gets spectrum a compute plasma jets spectrum a compute plasma interpolation corpuscular energeticular energeticular plasma curicular plasma curicular plasma curicular plasma curicular plasma curicular energeticular plasma curicular plasma curicular plasma curicular energeticular plasma curicular electroloidal fluir energeticular electroloidal fluir electroloidal fluir energeticular electroloidal electro | elts seroid  seroid  teroid  teroid  UF  GS  is  RT  rent scharges d discharge charges discharge discharge discharge ss discharge ss discharges so discharge ss discharge ss discharge ss discharge ss discharges ncies inalysis  torque lal plasmas ar radiation c particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) tal plasmas disc particles s (physics) torque target discharge so discharg | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices . torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force distance of its line of action from the sed for hinge moments. hinge moments hinge moments force loading moments moments of inertia pitching moments rolling moments rolling moments rolling moments rolling moments rolling moments rotation shafts (machine elements)  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . Toro ast . Toroidal discharge . electric dis . Townsen . gas dis toroic ring . electrodele . high freque plasma jets spectrum a  toroidal plasmas  UF plasma ring . charged p . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . toroic . energetic . plasma . toroic . plasma . toroic . energetic . plasma . toroic . plasma toroic . plasma toroic . plasma toroic . plasma toroic . plasma con plasma cun poloidal flu reverse fiele rings   | elts ieroid  i | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force edistance of its line of action from the sed for hinge moments. hinge moments moments torque bending moments moments force loading moments moments of inertia pitching moments rotation shafts (machine elements) torque sensors (robotics)  |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . meteoroids . solar syster . space debr  toroidal discharge . electric die . Townsen . gas dis toroic ring . electrodelee . high freque . plasma jets . spectrum a  toroidal plasmas . UF plasma ring . GS particles . charged p . energetic . plasma toroic . corpuscule . energetic . plasma toroic . corpuscule . energetic . plasma toroic . plasma .   | elts ieroid  i | turbine engines underwater propulsion coes  RETORC (torpedoes) explosive devices  torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force distance of its line of action from the sed for hinge moments.  Introduce bending moments moments of inertia pitching moments rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling rolling |
| Venus surface wadis  topology GS geometry   | GS celestial bo . asteroid b . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . asteroids . Toro ast . Toro ast . Toroidal discharge . electric dis . Townsen . gas dis toroic ring . electrodele . high freque plasma jets spectrum a  toroidal plasmas  UF plasma ring . charged p . energetic . plasma . toroic . corpuscula . energetic . plasma . toroic . toroic . energetic . plasma . toroic . plasma . toroic . energetic . plasma . toroic . plasma toroic . plasma toroic . plasma toroic . plasma toroic . plasma con plasma cun poloidal flu reverse fiele rings   | elts seroid  teroid  teroid  teroid  UF  GS  is  RT  rent scharges id discharge charges lal discharge discharge gs discharge ss discharges inalysis  torque arricles c particles c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles s (physics) lal plasmas c particles c particl | turbine engines underwater propulsion  Des  RETORC (torpedoes) explosive devices torpedoes ammunition antisubmarine warfare ASROC engine bombs (ordnance) configurations countermeasures explosives hydroballistics missiles nuclear weapons propellants rockets sea launching shaped charges submerged bodies underwater trajectories warheads weapons  About an axis, the product of a force edistance of its line of action from the sed for hinge moments. hinge moments moments torque bending moments moments force loading moments moments of inertia pitching moments rotation shafts (machine elements) torque sensors (robotics)  |

torsional vibration self induced vibration GS measuring instruments shear strain . optical measuring instruments twisting yawing moments . . photometers torque ... ultraviolet spectrometers torque converters .... Total Ozone Mapping twisting DEF Devices for changing the torque speed Spectrometer or mechanical advantage between an input torso . radiation measuring instruments shaft and an output shaft. GS anatomy . . actinometers RT ∞ converters . torso . . . ultraviolet detectors power converters RT chest . . . . ultraviolet spectrometers transmissions (machine elements) .... Total Ozone Mapping toruses Spectrometer torque measuring apparatus GS geometry . . photometers . . . ultraviolet spectrometers USE torquemeters . Euclidean geometry . . analytic geometry .... Total Ozone Mapping torque motors . . toruses Spectrometer electromechanical devices GS symmetrical bodies . satellite-borne instruments . electric motors . bodies of revolution . . Total Ozone Mapping . . torque motors Spectrometer . toruses motors descriptive geometry . spectrometers . electric motors . . ultraviolet spectrometers loops . torque motors ∞ rings ... Total Ozone Mapping RT actuators topology Spectrometer servomotors optical equipment transmissions (machine elements) Tory 2 reactor . optical measuring instruments nuclear electric power generation . . photometers torque sensors (nonrobotics) . nuclear power reactors . . . ultraviolet spectrometers USE torquemeters Tory 2 reactor .... Total Ozone Mapping nuclear reactors Spectrometer torque sensors (robotics) . gas cooled reactors RT Antarctic regions Nimbus 7 satellite (added January 1991) . . Tory 2 reactor robot sensors . nuclear power reactors ozone depletion torque sensors (robotics) ... Tory 2 reactor ozonometry end effectors . nuclear research and test reactors manipulators ... Tory 2 reactor total quality management robots (added February 1992) UF TQM (quality control) ∞ sensors Tory 2-A reactor servomechanisms GS nuclear electric power generation GS management teleoperators . nuclear power reactors . total quality management torque . Tory 2-A reactor quality control torquemeters nuclear reactors . total quality management . gas cooled reactors acceptability torquemeters . Tory 2-A reactor aircraft reliability torque measuring apparatus . nuclear power reactors
. Tory 2-A reactor concurrent engineering torque sensors (nonrobotics) industrial management measuring instruments . nuclear research and test reactors management methods torquemeters . Tory 2-A reactor production management dynamometers quality mechanical measurement Tory 2-C reactor reliability torque GS nuclear electric power generation reliability engineering torque sensors (robotics) . nuclear power reactors Taguchi methods Tory 2-C reactor value engineering torquers nuclear reactors ĞS transducers . gas cooled reactors total variation diminishing schemes torquers . Tory 2-C reactor USE TVD schemes degrees of freedom RT . nuclear power reactors gyroscopes ... Tory 2-C reactor touch sea keeping . nuclear research and test reactors cutaneous perception ... Tory 2-C reactor tactile sensation **Torres Strait** GS perception GS passageways TOS-A . sensory perception straits USE ESSA 3 satellite . . touch Torres Strait . tactile discrimination Australia total energy systems electrocutaneous communication New Guinea (island) DEF Energy systems which supply both skin (anatomy) electrical and heat requirements. tactile sensors (robotics) torsion buckling GS total energy systems solar total energy systems touchdown deflection integrated energy systems GS landing deformation phosphoric acid fuel cells . touchdown ∞ force aircraft landing moments approach temperature inversions total impulse approach and landing tests (STS) torque (added March 2000) downrange torsional stress DEF The integral of thrust over a given spacecraft landing torsional vibration interval of time; the product of thrust and duravertical landing twisting tion expressed in force-seconds; the total thrust vertical motion produced by a rocket engine or motor over the water landing torsional stress entire time that its fuel is burning. GS stresses impulses GS toughness shear stress total impulse That property of a material by virtue of . torsional stress which it can absorb work. propulsion system performance RT torque propulsive efficiency mechanical properties torsion spacecraft propulsion toughness torsional vibration specific impulse . notch sensitivity abrasion resistance GS vibration thrust brittleness . structural vibration Total Ozone Mapping Spectrometer (added July 1988) torsional vibration compressive strength crack initiation RT missile vibration

TOMS

ductility

random vibration

| fracture strength                  | antennas                                      | toxicology                             |
|------------------------------------|---|--|
| hardness                           | bridges (structures)                          | toxins and antitoxins                  |
| impact tests                       | columns (supports)                            | virulence                              |
| J integral                         | concrete structures                           | 711 d.101100                           |
| S .                                | construction industry                         | toxicity and safety hazard             |
| shear properties                   | •   | GS irritation                          |
| tensile strength                   | cranes  | . toxicity and safety hazard           |
| wear resistance                    | pylons  | RT acroleins                           |
| 4                                  | ∞ structures                                  |  |
| tourism                            | tanks (containers)                            | benzene poisoning                      |
| (added April 1999)                 |   | beryllium poisoning                    |
| GS tourism                         | towing  | carbon tetrachloride poisoning         |
| . space tourism                    | RT cables (ropes)                             | chemical properties                    |
| RT industries                      | towed bodies                                  | hazardous material disposal (in        |
| recreation                         | tractors                                      | space)                                 |
| transportation                     | trailers                                      | hydrocarbon poisoning                  |
| ∞ travel                           |   | intoxication                           |
|                                    | Townsend avalanche                            | soil pollution                         |
| tourmaline                         | UF townsend surfaces                          | F                                      |
| GS aluminum compounds              | GS avalanches                                 | toxicology                             |
| . tourmaline                       | . Townsend avalanche                          | RT benzene poisoning                   |
| boron compounds                    | RT electromagnetic absorption                 | beryllium poisoning                    |
| . tourmaline                       | electron avalanche                            | bioavailability                        |
|                                    |   | biomarkers                             |
| minerals                           | ion impact                                    |  |
| . tourmaline                       | secondary emission                            | carbon tetrachloride poisoning         |
| silicon compounds                  | ∞ surfaces                                    | curare                                 |
| . silicates                        |   | endotoxins                             |
| sodium silicates                   | Townsend discharge                            | fungicides                             |
| tourmaline                         | DEF A type of direct current discharge be-    | hazards                                |
| sodium compounds                   | tween two electrodes immersed in a gas and    | hemoperfusion                          |
| . sodium silicates                 | requiring electron emission from the cathode. | hydrocarbon poisoning                  |
| tourmaline                         | GS electric current                           | insecticides                           |
| RT igneous rocks                   | . electric discharges                         | intoxication                           |
| 9                                  | Townsend discharge                            | nonpoint sources                       |
| Tournesole satellite               | gas discharges                                | pesticides                             |
| USE <b>D-2 satellites</b>          | toroidal discharge                            | pollution                              |
| OOL D-2 Satemites                  |   | red tide                               |
| tamiaata                           | ring discharge                                |  |
| tourniquets                        | RT electrodeless discharges                   | toxic diseases                         |
| GS medical equipment               | ion impact                                    | toxicity                               |
| . tourniquets                      |   | vaccines                               |
| RT blood circulation               | townsend surfaces                             |  |
| blood flow                         | USE Townsend avalanche                        | toxins and antitoxins                  |
| first aid                          |   | GS toxins and antitoxins               |
|                                    | toxic diseases                                | . endotoxins                           |
| Toutatis asteroid                  | UF poisoning (toxicology)                     | . polybrominated biphenyls             |
| (added July 1995)                  | GS diseases                                   | RT biological weapons                  |
| GS celestial bodies                | . toxic diseases                              | hazardous materials                    |
| . asteroids                        | benzene poisoning                             | immunity                               |
| Toutatis asteroid                  | beryllium poisoning                           | toxicity                               |
| RT asteroid belts                  | carbon monoxide poisoning                     | vaccines                               |
| meteoroids                         | carbon tetrachloride poisoning                | Vaccines                               |
| meteoroids                         |   | TQM (quality control)                  |
| tow missiles                       | hydrocarbon poisoning                         | USE total quality management           |
|                                    | lead poisoning                                | USE total quality management           |
| GS missiles                        | RT Clostridium botulinum                      | TDAAO (-11)(-                          |
| . surface to surface missiles      | diphtheria                                    | TRAAC satellite                        |
| antitank missiles                  | hyperoxia                                     | USE Transit Attitude Control satellite |
| tow missiles                       | ∞ poisoning                                   |  |
|                                    | toxicity                                      | trace contaminants                     |
| towed bodies                       | toxicology                                    | GS contaminants                        |
| UF drogues                         |   | . trace contaminants                   |
| towed targets                      | toxic hazards                                 | RT chemical elements                   |
| RT aircraft brakes                 | GS hazards                                    | impurities                             |
| ∞ bodies                           | . toxic hazards                               | pollution transport                    |
| brakes (for arresting motion)      | RT aircraft hazards                           | purity                                 |
| drag chutes                        | biological hazards                            | ∞ tracing                              |
| gliders                            | flight hazards                                | <u> </u>                               |
| lifting bodies                     | hazardous materials                           | trace elements                         |
| parachutes                         | hazardous materials                           | RT isotopic labeling                   |
| sleds                              | heavy metals                                  | ∞ nutrients                            |
| streamlined bodies                 | occupational diseases                         | particle tracks                        |
|                                    |   | siderophile elements                   |
| submerged bodies                   | ∞ poisoning                                   | ∞ tracers                              |
| test vehicles                      | toxicity                                      | ∞ tracing                              |
| tetherlines                        |   | ∞ tracing                              |
| towing                             | toxicity                                      | TDACE actallita                        |
| trailers                           | GS toxicity                                   | TRACE satellite                        |
|                                    | . benzene poisoning                           | (added May 1998)                       |
| towed targets                      | . beryllium poisoning                         | USE Transition Region and Coronal      |
| USE targets                        | . carbon monoxide poisoning                   | Explorer                               |
| towed bodies                       | . carbon tetrachloride poisoning              |  |
|                                    | . hydrocarbon poisoning                       | ∞ tracers                              |
| Tower Shielding Reactor 2          | . lead poisoning                              | SN (USE OF A MORE SPECIFIC TERM IS     |
| GS nuclear reactors                | RT acidosis                                   | RECOMMENDEDCONSULT THE TERMS           |
| nuclear research and test reactors | alkalosis                                     | LISTED BELOW)                          |
|                                    |   | RT ammunition                          |
| Tower Shielding Reactor 2          | bioavailability                               | isotopic labeling                      |
| RT radiation shielding             | chemical properties                           | marking                                |
|                                    | endangered species                            | trace elements                         |
| towers                             | herbicides                                    |  |
| GS towers                          | hyperoxia                                     | trachea                                |
| . airport towers                   | poisons                                       | GS anatomy                             |
| . umbilical towers                 | toxic diseases                                | . respiratory system                   |
| RT air traffic control             | toxic hazards                                 | trachea                                |
|                                    |   |  |

| RT             | bronchi  |           | bandwidth   |               | STDN (network)                                 |
|----------------|--|-----------|---|---------------|--|
|                | • tubes  |           | multiple target tracking  |               | ,  |
| troobyte       | •  |           | phase locked systems  | tracking      | studies<br>tracking (position)                 |
| trachyte<br>GS | rocks  |           | video landmark acquisition and tracking   | USE           | tracking (position)                            |
|                | . igneous rocks  |           | tracking  |               |  |
|                | trachyte   | 4         |   | SN            | (USE OF A MORE SPECIFIC TERM IS                |
| RT             | soils  |           | networks networks   |               | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)     |
|                | syenite  | 93        | . tracking networks   | UF            | trails   |
| ∞ tracing      |  |           | Deep Space Network  | RT            | conveyors<br>ground tracks                     |
| SN             | (USE OF A MORE SPECIFIC TERM IS  |           | Global Tracking Network   |               | meteor trails                                  |
|                | RECOMMENDEDCONSULT THE TERMS LISTED BELOW)   |           | manned space flight network MATTS (systems)   |               | minitrack system                               |
| RT             | drawings   |           | polystation doppler tracking system   |               | particle tracks                                |
|                | trace contaminants trace elements  |           | radar networks  |               | particle trajectories                          |
|                | trace elements   |           | space detection and tracking  |               | smoke trails<br>tracking (position)            |
| tracked        | vehicles   |           | system  |               | vehicular tracks                               |
|                | Land vehicles equipped with continu-   |           | Space Flight Tracking and Data<br>Network   |               |  |
|                | er belts over cogged wheels for moving ugh terrain.                                  |           | STDN (network)  | traction      |  |
|                | surface vehicles   | RT        | Advanced Range Instrumentation  | RT            | adhesion<br>friction                           |
|                | . motor vehicles   |           | Ship  |               | pulling  |
|                | tractors   |           | data acquisition ground support equipment   |               |  |
| DT             | tracked vehicles   |           | minitrack system  | tractors      |  |
| RT             | crawler tractors<br>∘ vehicles   |           | missile tracking  | GS            | surface vehicles<br>. motor vehicles           |
|                | vehicular tracks   |           | Orion (radio interferometry network)  |               | tractors                                       |
|                |  |           | satellite tracking  |               | crawler tractors                               |
|                | g (position)   |           | satellite-to-satellite tracking spacecraft tracking   |               | tracked vehicles                               |
| UF             | target tracking<br>tracking studies  |           | opaccorait tracking   | RT            | agriculture electric motor vehicles            |
| GS             | tracking (position)  | trooking  | nroblem   |               | ground handling                                |
|                | . compensatory tracking  |           | problem The problem of controlling a system so  |               | handling equipment                             |
|                | . infrared tracking  |           | output follows a given path.  |               | lunar excavation equipment                     |
|                | . missile tracking . multiple target tracking  | RT        | automatic control   |               | materials handling                             |
|                | . optical tracking   |           | control theory  |               | planting<br>plowing                            |
|                | . photographic tracking  |           | feedback control<br>linear systems  |               | sleds  |
|                | polystation doppler tracking system  |           | multiple target tracking  |               | towing   |
|                | . pursuit tracking<br>. radar tracking   |           | nonlinear systems   |               | transportation                                 |
|                | . radio tracking   |           | optimal control   | ~             | trucks<br>vehicles                             |
|                | wildlife radiolocation   | 000       | output<br>problems  |               | Vernoies                                       |
|                | . range and range rate tracking  |           | tracking (position)   | tracts        |  |
|                | <ul> <li>space detection and tracking system</li> <li>spacecraft tracking</li> </ul> |           | trajectory control  | USE           | sites  |
|                | satellite tracking   |           | trajectory optimization   | tradeof       | fs   |
|                | satellite-to-satellite tracking  |           |   | RT            | decision making                                |
|                | . star trackers  | tracking  |   |               | management analysis                            |
|                | CCD star tracker . video landmark acquisition and                                    | DEF<br>GS | A radar used for following a target. radar  |               | management planning                            |
|                | tracking   | 00        | . tracking radar  | Trader a      | aircraft                                       |
| RT             | air traffic control  |           | Cobra Dane (radar)  | USE           | C-1A aircraft                                  |
|                | aircraft detection   | RT        | coherent radar  | 422422        | antia  |
|                | approach control detection   |           | continuous wave radar<br>digital radar systems  | tradesc<br>GS |  |
|                | identifying  |           | monopulse radar   |               | . tradescantia                                 |
|                | instrument landing systems   |           | pulse radar   |               |  |
|                | laser ranger/tracker   |           | radar tracking  |               | X radar system                                 |
|                | multispectral tracking telescopes position (location)                                |           | satellite-borne radar<br>search radar   | GS            | radar<br>. TRADEX radar system                 |
|                | rangefinding   |           | surveillance radar  | RT            |  |
|                | ray tracing  |           | TRADEX radar system   | ~             | systems  |
|                | satellite doppler positioning  |           | trajectory measurement  |               | target recognition                             |
|                | solar sensors<br>sound localization  |           |   |               | tracking radar                                 |
|                | sound ranging  |           | stations  | traffic       |  |
|                | tracking problem   |           | Stations set up to track objects moving   | GS            | traffic  |
| ~              | ∘ tracks   |           | the atmosphere or space, usually by of radio or radar.                                      | RT            | . air traffic accidents                        |
| Tracking       | g and Data Relay Satellites  |           | stations  | IXI           | avoidance                                      |
|                | TDR satellites   |           | . tracking stations   |               | harbors  |
|                |  |           | Deep Space Instrumentation  |               | transportation                                 |
|                | antennas<br>directional antennas   |           | Facility Global Tracking Network  | traffic c     | ontrol   |
| USL            | directional antennas   |           | polystation doppler tracking system   |               | Control of vehicular traffic such as pri-      |
| tracking       |  | RT ∞      | fences  | ority hig     | ghway lanes, stoplight control, rapid-         |
|                | Electron devices for attenuating un-   |           | ground stations   |               | rain control, or air traffic control.          |
|                | signals while passing desired signals, by of phase lock techniques which reduce      |           | ground support equipment Jodrell Bank Observatory   | GS            | traffic control . air traffic control          |
|                | ctive bandwidth of the circuit and elimi-  | 000       | mars  |               | automated en route ATC                         |
| nate am        | plitude variations.  |           | minitrack system  |               | radar approach control                         |
| GS             | electromagnetic wave filters   |           | missile tracking  | RT            | air traffic controllers (personnel)            |
|                | . bandpass filters   |           | radar networks  |               | airport towers                                 |
|                |  |           | satellite tracking  |               | annroach control                               |
|                | tracking filters   |           | satellite tracking<br>space detection and tracking system                                   |               | approach control avoidance                     |
|                |  |           | satellite tracking<br>space detection and tracking system<br>Space Flight Tracking and Data |               | approach control avoidance collision avoidance |
| RT             | tracking filters<br>. electric filters   |           | space detection and tracking system   | o             | avoidance                                      |

|                 | National Aviation System        |          | . Alpha jet aircraft                      |          | space flight training                               |
|-----------------|---------------------------------|----------|---|----------|---|
| tragaça         | nth                             |          | . jet provost aircraft                    |          | virtual reality                                     |
| tragaca         | plants (botany)                 |          | . L-29 jet trainer                        |          |   |
| 63              | . tragacanth                    |          | . T-2 aircraft                            | trajecto | ries  |
|                 | . tragacantii                   |          | . T-28 aircraft<br>. T-33 aircraft        | DEF      | In general, paths traced by bodies                  |
| Trailbla        | zer 1 reentry vehicle           |          | . T-37 aircraft                           |          | as a result of an externally applied force,         |
| UF              | Trailblazer 1 rocket vehicle    |          | . T-38 aircraft                           |          | red in three dimensions.                            |
| GS              | reentry vehicles                |          | . T-39 aircraft                           | GS       | trajectories  |
|                 | . Trailblazer 1 reentry vehicle |          | . TS-11 aircraft                          |          | abort trajectories                                  |
| RT              | Honest John rocket vehicle      | RT ∝     | ⇒ aircraft                                |          | . ascent trajectories                               |
|                 | Lance missile                   |          | bomber aircraft                           |          | . ballistic trajectories . descent trajectories     |
|                 | multistage rocket vehicles      |          | fighter aircraft                          |          | reentry trajectories                                |
|                 | Nike-Ajax missile               |          | general aviation aircraft                 |          | . hyperbolic trajectories                           |
|                 | rocket vehicles                 |          | jet aircraft                              |          | . interorbital trajectories                         |
|                 | solid propellant rocket engines |          | light aircraft                            |          | . midcourse trajectories                            |
| Trailblaz       | zer 1 rocket vehicle            |          | military aircraft                         |          | . missile trajectories                              |
|                 | Trailblazer 1 reentry vehicle   | ~        | subsonic aircraft                         |          | . molecular trajectories                            |
|                 | •                               | training | analysis                                  |          | . particle trajectories                             |
|                 | zer 2 reentry vehicle           |          | Evaluation of all facets of instruction   |          | electron trajectories                               |
| UF              | Trailblazer 2 rocket vehicle    |          | ation methods, instructors, effectiveness |          | . rendezvous trajectories                           |
| GS              | reentry vehicles                |          | ng, and testing.                          |          | . round trip trajectories                           |
| БТ              | Trailblazer 2 reentry vehicle   |          | analyzing                                 |          | circumlunar trajectories                            |
| RT              | multistage rocket vehicles      | ~        | development                               |          | . spacecraft trajectories                           |
|                 | rocket vehicles                 |          | education                                 |          | interplanetary trajectories                         |
|                 | solid propellant rocket engines |          | handbooks                                 |          | Earth-Mars trajectories                             |
|                 | TX-354 engine                   |          | learning                                  |          | Earth-Mercury trajectories Earth-Venus trajectories |
| Trailblaz       | zer 2 rocket vehicle            |          | personnel development                     |          | Lartii-verius trajectories<br>lunar trajectories    |
|                 | Trailblazer 2 reentry vehicle   |          | planning                                  |          | circumlunar trajectories                            |
| 002             | ,                               |          | retraining                                |          | Earth-Moon trajectories                             |
| trailers        |                                 | training | dovices                                   |          | moon-Earth trajectories                             |
| RT              | automobiles                     | UF       | devices<br>trainers                       |          | . spinning unguided rocket trajectory               |
|                 | couplings                       | GS       | training devices                          |          | . underwater trajectories                           |
|                 | sleds                           | 00       | . teaching machines                       | RT       | apexes  |
|                 | tank trucks                     |          | . training simulators                     |          | attractors (mathematics)                            |
|                 | towed bodies                    |          | flight simulators                         |          | ballistics  |
|                 | towing                          |          | cockpit simulators                        | ~        | curves  |
|                 | trucks                          |          | . spacecraft cabin simulators             |          | downrange   |
| trailing        | edge flaps                      | RT       | altitude simulation                       |          | equations of motion                                 |
| UF              | variable area wings             |          | audio visual equipment                    | ~        | flight  |
| GS              | airfoils                        |          | child device                              |          | flight mechanics                                    |
|                 | . flaps (control surfaces)      |          | cockpit simulators                        |          | flight optimization                                 |
|                 | wing flaps                      | ~        | devices                                   |          | flight paths  |
|                 | trailing edge flaps             |          | education                                 |          | flight time<br>great circles                        |
|                 | brakes (for arresting motion)   |          | educational television                    |          | missiles  |
|                 | aerodynamic brakes              |          | flight simulators                         |          | orbits  |
|                 | wing flaps                      |          | multimedia                                |          | ordnance  |
|                 | trailing edge flaps             |          | onboard equipment simulators              |          | parabolic flight                                    |
|                 | . aircraft brakes               |          | visual aids                               | ~        | paths   |
|                 | wing flaps                      |          | visual alus                               |          | rocket flight                                       |
|                 | trailing edge flaps             | training | evaluation                                |          | space flight  |
|                 | control surfaces                |          | Procedures for determining the effec-     |          | transfer orbits                                     |
|                 | . flaps (control surfaces)      |          | of instruction.                           |          |   |
|                 | wing flaps trailing edge flaps  | GS       | evaluation                                | trajecto | ry analysis   |
|                 | drag devices                    |          | . training evaluation                     |          | analyzing   |
|                 | . aerodynamic brakes            | RT       | certification                             | 101      | astrodynamics                                       |
|                 | wing flaps                      |          | examination                               |          | ballistics  |
|                 | trailing edge flaps             |          | instructors                               |          | capture effect                                      |
| RT              | jet flaps                       |          | knowledge                                 |          | celestial mechanics                                 |
|                 | leading edge slats              |          | learning                                  |          | equations of motion                                 |
|                 | split flaps                     | ~        | performance                               |          | Goddard Trajectory Determination                    |
|                 | vortex flaps                    |          | reviewing                                 |          | System  |
|                 |                                 |          | schools<br>students                       |          | impact prediction                                   |
| trailing        |                                 |          | Students                                  |          | mathematical models                                 |
| GS              | edges                           | training | simulators                                |          | numerical analysis                                  |
|                 | . trailing edges                |          | simulator training                        |          | orbital mechanics                                   |
| DT              | blunt trailing edges airfoils   | GS       | simulators                                |          | preflight analysis                                  |
| RT              | blunt leading edges             |          | training simulators                       |          | systems analysis                                    |
|                 | leading edges                   |          | flight simulators                         |          | trajectory planning                                 |
|                 | sharp leading edges             |          | cockpit simulators                        |          |   |
|                 | vortex flaps                    |          | spacecraft cabin simulators               | trajecto | ry control  |
|                 | voitex haps                     |          | training devices                          | UF       | range control                                       |
| trails          |                                 |          | . training simulators                     | GS       | trajectory control                                  |
| USE             | tracks                          |          | flight simulators                         |          | . trajectory optimization                           |
|                 |                                 |          | cockpit simulators                        | RT       | attitude control                                    |
| trainees        |                                 |          | spacecraft cabin simulators               | ~        | control   |
| USE             | students                        | RT       | astronaut training                        |          | drift rate  |
|                 |                                 |          | centrifuges                               |          | guidance (motion)                                   |
| trainers        |                                 |          | control simulation                        |          | homing devices                                      |
| USE             | training devices                |          | flight simulation<br>flight training      |          | landing sites optimal control                       |
| trainin-        |                                 |          | in-flight simulation                      |          | optimization  |
| training<br>USE | education                       |          | landing simulation                        |          | post boost propulsion system                        |
| USE             | Caddation                       |          | lunar orbit and landing simulators        |          | range safety  |
| training        | aircraft                        | ~        | missile simulators                        |          | thrust programming                                  |
|                 | training aircraft               | •        | pilot training                            |          | tracking problem                                    |
| 00              | ig un oran                      |          | P   |          |   |

trajectory measurement trajectory planning linear circuits low conductivity . . radio transmission trajectory measurement ∞ low resistance . transequatorial propagation ballistic cameras ohmmeters . signal transmission ballistics . . radio transmission Ohms law flight mechanics RC circuits . . transequatorial propagation ∞ measurement reactance . wave propagation telemetry ∞ resistance transequatorial propagation RT equators F 2 region tracking radar RL circuits RLC circuits trajectory optimization solid electrodes ∞ propagation GS optimization volt-ampere characteristics trajectory optimization transfer trajectory control transcontinental systems USE transferring trajectory optimization RT continents transfer functions aircraft maneuvers ∞ systems functions (mathematics) flight mechanics telecommunication flight optimization transportation . transfer functions genetic algorithms .. loop transfer functions Goddard Trajectory Determination transcription (genetics) . . modulation transfer function (added April 2002) . optical transfer function System Transfer of genetic information from amplification pursuit-evasion games tracking problem DNA to mRNA automatic control deoxyribonucleic acid bandwidth trajectory planning coupling coefficients gene expression gene expression regulation damping trajectory planning (added December 1990) genetics dynamic characteristics path planning ribonucleic acids dynamic response feedback GS planning trajectory planning transducers feedback circuits robot dynamics DEF Devices capable of being actuated by high gain energy from one or more other transmission impedance matching robotics systems or media and of supplying related enlogarithmic receivers trajectory analysis trajectory control ergy to one or more other transmission systems negative feedback or media as microphones or thermocouples. nonlinear feedback trajectory optimization Voronoi diagrams transducers Nyquist diagram . digital transducers output electronic transducers tranquilizers positive feedback GŚ image transducers self oscillation druas . tranquilizers interdigital transducers sensitivity central nervous system depressants magnetic transducers ∞ systems mode transformers hypertension time constant . piezoelectric transducers sedatives transient response piezoelectric gages Transall C-160 aircraft . piezoresistive transducers transfer of training USE C-160 aircraft . piezoelectric gages GS learning . transfer of training pressure sensors transatmospheric vehicles abilities . Bourdon tubes aerospace planes quartz transducers education aerospace vehicles generalization (psychology) . sound transducers ∞ aircraft . electroacoustic transducers aircraft design transfer orbits hydrophones National Aerospace Plane Program DEF In interplanetary travel, elliptical trajec-. . . loudspeakers ∞ spacecraft . . microphones spacecraft design thermopiles X-30 vehicle torquers transfer. ultrasonic wave transducers UF Hohmann trajectories transceivers bulk acoustic wave devices Hohmann transfer orbits USE transmitter receivers control equipment orbital transfer transcendental functions orbits data converters functions (mathematics) . elliptical orbits ∞ detectors transcendental functions ... transfer orbits energy conversion efficiency . . interplanetary transfer orbits . . exponential functions extensometers . . . logarithms form factors . spacecraft orbits . . transfer orbits . . periodic functions instrument receivers . . . trigonometric functions instrument transmitters . . interplanetary transfer orbits ... cosine series aeroassist ∞ instruments ... sine series measuring instruments aerobraking . . . . tangents meteorological instruments aerocapture aeromaneuvering photoelectric cells transconductance circumlunar trajectories probes The real part of the transadmittance. recording instruments Earth orbital rendezvous Note: Transconductance is, as most commonly Earth orbits remote sensors used, the interelectrode transconductance be-Earth-Mars trajectories ∞ sensors tween the control grid and the plate. At low strain gages Earth-Mercury trajectories temperature measuring instruments Earth-Moon trajectories

frequencies, transconductance is the slope of the control-grid-to-plate transfer characteristic.

electrical properties

. electrical impedance

. . electrical resistance

. . transconductance

impedance

. electrical impedance . . electrical resistance

... transconductance

RT ∞ conductivity electric potential electrodes electron tubes

ultrasonic cleaning

transearth injection

injection guidance

orbital mechanics

midcourse guidance

vibration meters

GS transmission

transearth injection

GS

injection

. electromagnetic wave transmission

tories tangent to the orbits of both the departure planet and the target planet. Used for Hohmann trajectories, Hohmann transfer orbits, and orbital

Earth-Venus trajectories

interplanetary trajectories lunar orbits

lunar trajectories moon-Earth trajectories orbit insertion orbital launching orbital mechanics parking orbits

planetary orbits satellite orbits solar orbits

space rendezvous

spacecraft docking . instrument transformers random loads trajectories mode transformers structural design criteria transearth injection voltage converters (AC to AC) transient oscillations transferring RT amplifiers translunar injection ballasts (impedances) GS oscillations circuit protection transient oscillations transfer RNA ∞ converters damping USE ribonucleic acids coupling circuits electron oscillations diplexers lasers transfer tunnels electric coils masers GS passageways electric filters pilot induced oscillation transfer tunnels stimulated emission devices electric motors entrances electric reactors transverse oscillation ∞ tunnels electrical grounding inductance transient pressures transferred electron devices pressure magnet coils GS Electronic equipment utilizing diodes magnetic circuits . transient pressures exhibiting negative conductance and suscepmagnetic cores oscillators mass flow rate tance. Used for TED. pressure sensors TED phase control GS electronic equipment **Transient Reactor Test Facility** plasma control . diodes TREAT (test facility) power supply circuits . . semiconductor diodes test facilities resolvers ... Gunn diodes Transient Reactor Test Facility saturable reactors transferred electron devices nuclear research and test reactors solid state devices . solid state devices reactor safety toroids . . semiconductor devices SNAP up-converters . transferred electron devices voltage regulators diffraction radiation transient response electron transfer GS dynamic characteristics transforming genes (added July 2002) gallium arsenides . transient response indium phosphides USE oncogenes responses microwave amplifiers . dynamic response microwave oscillators . transient response transforms RT amplification USE transformations (mathematics) transferring ∞ compensation transfer damping dynamic stability UF transfusion GS transferring blood drop transfer impedance first aid RT charge transfer pressure sensors medical science electron transfer resonant frequencies syringes energy transfer response bias veins exchanging sensitivity heat transfer stroking tests transgranular corrosion mass transfer A slow mode of failure that requires the time constant materials handling combined action of stress and aggressive envitransfer functions momentum transfer ronment where the path of failure runs through the grains producing branched cracking. transients (surges) technology transfer chemical attack USE surges GS transfer orbits transgranular corrosion transportation transistor amplifiers corrosion GS amplifiers transgranular corrosion transform integrals . transistor amplifiers corrosion tests integral transformations electronic equipment grain boundaries . solid state devices intergranular corrosion transformation tensors . . semiconductor devices metal fatigue USE tensors .. transistor amplifiers protective coatings cascode devices stress corrosion current amplifiers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) transhorizon radio propagation differential amplifiers feedback amplifiers GS transmission Fujita method . electromagnetic wave transmission intermediate frequency amplifiers functions (mathematics) . . radio transmission operational amplifiers order-disorder transformations . . . transhorizon radio propagation power amplifiers phase transformations . signal transmission preamplifiers transformations (mathematics) . . radio transmission transistors . transhorizon radio propagation transformations (mathematics) radio attenuation transistor circuits transforms GS circuits radio signals transformations (mathematics) transistor circuits . coordinate transformations cascode devices transient heating DTL integrated circuits . discrete cosine transform heating . transient heating GS . Householder transformations ∞ electronics . integral transformations . . pulse heating hybrid circuits . . Fourier transformation integrated circuits shock heating . . . fast Fourier transformations linear integrated circuits aerodynamic heating . . Fourier-Bessel transformations logic circuits microelectronics . . Hilbert transformation transient loads Laplace transformation (LIMITED TO FORCE LOADS) printed circuits loads (forces) . Gabor transformation TTL integrated circuits linear transformations . dynamic loads Fujita method . . transient loads transistor logic functions (mathematics) . . . gust loads RT Boolean algebra . . . impact loads gauge invariance ∞ loaic ... landing loads Racah coefficient logic circuits ... shock loads ∞ transformations logic design . blast loads threshold logic wavelet analysis aerodynamic loads contact loads transformers transistors

cyclic loads

GS transformers

GS electronic equipment

|   | . solid state devices  | V/STOL aircraft   | vanadium isotopes   |
|---|--|---|---|
|   | semiconductor devices  | vertical flight   | yttrium   |
|   | transistors  |   | yttrium isotopes  |
|   | bipolar transistors  | transition flow   | zinc  |
|   | field effect transistors charge flow devices   | GS fluid flow . gas flow  | zinc isotopes<br>zirconium  |
|   | JFET   | molecular flow  | zirconium isotopes  |
|   | MODFETS  | transition flow   | zirconium 95  |
|   | high electron mobility transistors   | RT boundary layer thickness   | RT actinide series  |
|   | MODFETS  | boundary layer transition   | complex compounds   |
|   | junction transistors JFET  | free molecular flow period doubling   | metal nitrides<br>palladium compounds   |
|   | phototransistors   | rarefied gas dynamics   | rare earth elements   |
|   | silicon transistors  | slip flow   | refractory metals   |
|   | SOS (semiconductors)   | ·   | ruthenium compounds   |
| RT  | cascode devices  | ∞ transition layers   | shape memory alloys transuranium elements   |
|   | germanium diodes ion implantation  | SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | transuranium elements   |
|   | miniaturization  | LISTED BELOW)   | transition points   |
|   | pentodes   | RT boundary layer transition interlayers  | DEF In aerodynamics, the points of change   |
|   | resonant tunneling   | laminar flow  | from laminar to turbulent flow.   |
|   | SIS (semiconductors) tetrodes  | plasma layers   | RT boundary layer transition  ∞ equilibrium   |
|   | transistor amplifiers  | shear layers  | Knudsen flow  |
|   | TRAPATT devices  | shock layers  | phase diagrams  |
|   | triodes  | shock waves<br>surface layers   | Reynolds number   |
| 4   | ar translator logic integ circuita   | turbulent flow  | transition pressure   |
|   | or-transistor-logic integ circuits TTL integrated circuits   |   | DEF The pressure at which phase transition  |
| OOL   | TTE Integrated circuits  | transition metals   | occurs.   |
| transit   |  | UF transition elements (chemistry)  | GS pressure   |
| SN  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   | GS metals   | . transition pressure   |
|   | LISTED BELOW)  | . transition metals cadmium   | RT high pressure  |
| RT  | occultation  | cadmium isotopes  | hydrostatic pressure phase transformations  |
|   | Transit satellites transits  | chromium  | pressure effects  |
|   | tidiisits  | chromium isotopes   | ·   |
| Transit   | Attitude Control satellite   | cobalt  | transition probabilities  |
| UF  | TRAAC satellite  | cobalt isotopes<br>cobalt 58  | RT electron transitions excitation  |
| GS  | artificial satellites  | cobalt 60   | Fermi surfaces  |
|   | . navigation satellites Transit Attitude Control satellite   | copper  | nuclear capture   |
| RT ∘  | o control  | copper isotopes   | probability theory  |
|   | satellite attitude control   | gold  | spectra   |
|   |  | gold isotopes   |   |
| T   |  |   | Transition Region and Coronal Explorer  |
|   | navigation system  | gold 198<br>hafnium   | Transition Region and Coronal Explorer (added May 1998)   |
| Transit<br>GS   | satellite navigation systems   |   | (added May 1998)  DEF Small Explorer Mission satellite sup-   |
|   |  | hafnium<br>hafnium isotopes<br>iridium  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships  |
| GS  | satellite navigation systems . Transit navigation system NASA programs navigation satellites   | hafnium<br>hafnium isotopes<br>iridium<br>iridium isotopes  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their   |
| GS  | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites   | hafnium<br>hafnium isotopes<br>iridium<br>iridium isotopes<br>iron  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition  |
| GS  | satellite navigation systems . Transit navigation system NASA programs navigation satellites   | . hatnium hafnium isotopes iridium iridium isotopes iron iron isotopes  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  |
| GS<br>RT  | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites   | . hatnium . hatnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite   |
| GS<br>RT<br>Transit   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites  | . hatnium . hatnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites   |
| GS<br>RT<br>Transit   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites   | . hatnium . hatnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59 . manganese  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites  scientific satellites  |
| GS<br>RT<br>Transit<br>GS   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites Transit satellites  | . hatnium . hatnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59 . manganese . manganese . manganese  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . scientific satellites . Explorer satellites   |
| GS<br>RT<br>Transit<br>GS<br>RT   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . Transit satellites biscos (satellite attitude control)  | . hatnium . hatnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59 . manganese  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites  . scientific satellites  . Explorer satellites  . Explorer satellites  . Transition Region and Coronal   |
| GS<br>RT<br>Transit<br>GS<br>RT   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . Transit satellites Discos (satellite attitude control)  | hatnium hafnium isotopes iridium iridium isotopes iron iron isotopes iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury vapor   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . Explorer satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites  |
| GS<br>RT<br>Transit<br>GS<br>RT   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . Transit satellites Discos (satellite attitude control) transit navigation system  | . hatnium . hatnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59 . manganese . manganese isotopes . mercury (metal) . mercury isotopes . mercury vapor . molybdenum   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . scientific satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal  |
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| GS<br>RT<br>Transit<br>GS<br>RT<br>SN<br>GS<br>RT                               | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . navigation satellites Discos (satellite attitude control) transit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time . transit time Barritt diodes CATT devices flight time motion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)  | hafnium hafnium isotopes iridium iridium isotopes iron iron isotopes iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury isotopes mercury sotopes mercury vapor molybdenum nickel nickel isotopes niobium niobium isotopes niobium 95 osmium osmium isotopes palladium platinum platinum platinum rhenium isotopes rhodium rhenium isotopes rhodium rhenium isotopes rhodium   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites Explorer satellites Explorer satellites Transition Region and Coronal Explorer small scientific satellites Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal  |
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| GS<br>RT<br>Transit<br>GS<br>RT<br>SN<br>GS<br>RT                               | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . navigation satellites . Transit satellites Discos (satellite attitude control) etransit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time Barritt diodes CATT devices flight time motion (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transitions forbidden transitions   | . hafnium . hafnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59 . manganese . manganese isotopes . mercury (metal) . mercury isotopes . mercury vapor . molybdenum . nickel . nickel isotopes . niobium . niobium isotopes . niobium 95 . osmium . osmium . osmium isotopes . palladium . platinum . platinum . rhenium isotopes . rhodium . rhodium isotopes . rhodium . rhodium isotopes . ruthenium . ruthenium isotopes . scandium  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . Explorer satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined tem-  |
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| GS<br>RT<br>Transit<br>GS<br>RT<br>SN<br>GS<br>RT<br>transiti<br>SN             | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Satellites artificial satellites . navigation satellites . navigation satellites Discos (satellites . Transit satellites Discos (satellite attitude control) attransit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time . transit time Barritt diodes CATT devices flight time motion  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transitions forbidden transitions phase transformations   | hafnium hafnium isotopes iridium iridium isotopes iron iron 57 iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury isotopes mercury vapor molybdenum nickel nickel isotopes niobium niobium isotopes niobium 95 osmium osmium osmium isotopes palladium platinum platinum platinum rhenium isotopes rhodium rhodium isotopes rhodium rhodium isotopes ruthenium ruthenium isotopes ruthenium ruthenium isotopes scandium scandium scandium isotopes silver   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . scientific satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined temperature in a range in which the ductility of a material changes rapidly with temperature.   |
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| GS RT  Transit GS RT  transit SN GS RT  transitio (adde USE                     | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Satellites artificial satellites . navigation satellites . navigation satellites Discos (satellites attitude control) attransit satellites biscos (satellite attitude control) attransit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time . transit time Barritt diodes CATT devices flight time motion  (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transition electron transitions forbidden transitions phase transformations  on elements (chemistry) at March 2000) transition metals                     | . hafnium . hafnium isotopes . iridium . iridium isotopes . iron . iron isotopes . iron 57 . iron 58 . iron 59 . manganese . manganese isotopes . mercury (metal) . mercury isotopes . mercury vapor . molybdenum . nickel . nickel isotopes . niobium . niobium isotopes . niobium 95 . osmium . osmium . osmium isotopes . palladium . platinum . platinum . platinum . rhenium isotopes . rhodium . rhodium isotopes . ruthenium . ruthenium . ruthenium isotopes . scandium . scandium isotopes . scandium . scandium isotopes . silver . silver isotopes . tantalum . tantalum isotopes . tantalum . tantalum isotopes . technetium  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . scientific satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined temperature in a range in which the ductility of a material changes rapidly with temperature.  GS temperature  RT ductile-brittle transition glass transition temperature   |
| GS RT  Transit GS RT SN GS RT transitio SN RT  transitio (addd USE transitioi   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . Transit satellites . Discos (satellite attitude control) transit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time . transit time Barritt diodes CATT devices flight time motion  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transitions forbidden transitions phase transformations  on elements (chemistry) and March 2000) transition metals on flight  | hafnium hafnium isotopes iridium iridium isotopes iron iron isotopes iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury isotopes mercury vapor molybdenum nickel nickel isotopes niobium niobium isotopes niobium 95 osmium osmium 95 osmium osmium isotopes platinum platinum platinum rhenium isotopes rhodium rhodium isotopes ruthenium rthenium isotopes ruthenium rscandium scandium scandium scandium isotopes silver silver isotopes tantalum tantalum isotopes technetium technetium isotopes technetium technetium isotopes   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . Explorer satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined temperature in a range in which the ductility of a material changes rapidly with temperature  GS temperature  transition temperature  RT ductile-brittle transition glass transition temperature heat of fusion               |
| GS RT  Transit GS RT  transiti SN RT  transitio (addd USE transitii (addd USE   | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . navigation satellites Discos (satellite attitude control) transit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time Barrit diodes CATT devices flight time motion  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transition electron transitions forbidden transitions phase transformations on elements (chemistry) and March 2000) transition metals on flight and January 1990)                                       | hafnium hafnium isotopes iridium iridium isotopes iron iron isotopes iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury isotopes mercury vapor molybdenum nickel nickel isotopes niobium niobium niobium isotopes niobium 95 osmium osmium 95 osmium osmium isotopes platinum platinum platinum platinum rhenium isotopes rhodium rhodium rhodium isotopes ruthenium ruthenium ruthenium scandium scandium scandium scandium scandium stantalum tantalum isotopes tantalum tantalum isotopes technetium technetium technetium isotopes titanium technetium isotopes titanium  | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . Explorer satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which meta fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined temperature in a range in which the ductility of a material changes rapidly with temperature.  GS temperature . transition temperature  RT ductile-brittle transition glass transition temperature heat of fusion Kondo effect |
| GS RT  Transit GS RT  transit SN GS RT  transitio (addd USE  transitio (addd RT | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . Transit satellites . Discos (satellite attitude control) transit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time . transit time Barritt diodes CATT devices flight time motion  on (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transitions forbidden transitions phase transformations  on elements (chemistry) and March 2000) transition metals on flight  | hafnium hafnium isotopes iridium iridium isotopes iron iron isotopes iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury isotopes mercury vapor molybdenum nickel nickel isotopes niobium niobium isotopes niobium 95 osmium osmium 95 osmium osmium isotopes platinum platinum platinum rhenium isotopes rhodium rhodium isotopes ruthenium rthenium isotopes ruthenium rscandium scandium scandium scandium isotopes silver silver isotopes tantalum tantalum isotopes technetium technetium isotopes technetium technetium isotopes   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . Explorer satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined temperature in a range in which the ductility of a material changes rapidly with temperature  GS temperature  transition temperature  RT ductile-brittle transition glass transition temperature heat of fusion               |
| GS RT  Transit GS RT  transit SN GS RT  transitio (addd USE  transitio (addd RT | satellite navigation systems . Transit navigation system NASA programs navigation satellites Nova satellites Transit satellites satellites artificial satellites . navigation satellites . navigation satellites Discos (satellite attitude control) transit Transit navigation system time (NOT LIMITED TO ASTRONOMICAL TIMES OF TRANSIT) time . transit time Barritt diodes CATT devices flight time motion  On (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW) boundary layer transition ductile-brittle transition electron transitions forbidden transitions phase transformations  on elements (chemistry) and March 2000) transition metals  on flight and January 1990) aircraft maneuvers | hafnium hafnium isotopes iridium iridium isotopes iron iron isotopes iron 57 iron 58 iron 59 manganese manganese isotopes mercury (metal) mercury isotopes mercury vapor molybdenum nickel nickel isotopes niobium niobium isotopes niobium niobium isotopes niobium 95 osmium osmium osmium isotopes rhenium platinum platinum platinum rhenium isotopes rhodium rhodium isotopes ruthenium ruthenium ruthenium isotopes silver silver isotopes tantalum tantalum isotopes technetium technetium technetium isotopes titanium titanium isotopes titanium titanium isotopes   | (added May 1998)  DEF Small Explorer Mission satellite supporting the investigation of the relationships between fine-scale magnetic fields and their associated plasma structures in the transition region and lower corona of the Sun.  UF Explorer 73 satellite  TRACE satellite  GS artificial satellites . Explorer satellites . Explorer satellites . Transition Region and Coronal Explorer . small scientific satellites . Transition Region and Coronal Explorer  RT chromosphere SOHO Mission solar atmosphere solar corona solar magnetic field solar observatories solar physics solar transition region  transition temperature  DEF An arbitrarily defined temperature within the temperature range in which metal fracture characteristics determined usually by notched tests are changing rapidly such as from primarily fibrous (shear) to primarily crystalline (cleavage) fracture. The arbitrarily defined temperature in a range in which the ductility of a material changes rapidly with temperature.  GS temperature  RT ductile-brittle transition glass transition temperature heat of fusion Kondo effect liquid phases           |

solidification superconducting power transmission superconductivity

#### transits

(EXCLUDES PARTIAL OR TOTAL OCCULTATION OF ONE BODY BY ANOTHER) SN

GS measuring instruments

- . optical measuring instruments
- . . transits
- ... theodolites
- . . . . cinetheodolites
- optical equipment
- optical measuring instruments
- ... transits
- ... theodolites
- . . . cinetheodolites

RT compasses sextants ∞ transit

#### translating

#### translating GS

. machine translation

decoding documentation

∞ interpretation

languages technical writing

∞ translators

#### translational motion

### GS translational motion

. three dimensional motion

- . . three dimensional flow
- . . . Karman-Bodewadt flow

. . . secondary flow

RT ∞ motion

racks (gears) rigid structures

#### ∞ translators

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) computer programs

decoders

digital to voice translators

language programming

repeaters translating

### translucence

electromagnetic properties GS

- . optical properties
- . translucence

light transmission opacity optical density

transmissivity transparence

# translunar injection

GS injection

translunar injection

injection guidance midcourse guidance orbital mechanics transfer orbits

translunar space

USE interplanetary space

### transmission

Process by which radiant energy proceeds through any material or object. Used for coaxial transmission.

coaxial transmission

#### transmission

- . demultiplexing
- . electric power transmission
- . electromagnetic wave transmission
- . . light transmission ... light scattering
- . . halos
- . . microwave attenuation
- . . radar transmission
- . . radio transmission
- ... double sideband transmission
- ... ionospheric propagation

. . . . ionospheric F-scatter propagation . . . microwave transmission

. . . multipath transmission

... short wave radio transmission

... single sideband transmission

spread spectrum transmission . . . transequatorial propagation

... transhorizon radio propagation

. . scatter propagation

. . . ionospheric F-scatter propagation

. . television transmission

. heat transmission

. . heat transfer

. . . aerodynamic heat transfer

hypersonic heat transfer

. . . . supersonic heat transfer

. . . conductive heat transfer

... convective heat transfer

laminar heat transfer

. . . radiative heat transfer

turbulent heat transfer

. multiplexing

. ricate division multiplexing
. frequency division multiplexing
. time division multiplexing
. wavelength division multiplexing

self propagation

. signal transmission

. . data transmission

. . . automatic picture transmission

. . . multiple access

. . Aloha system

carrier sense multiple access

code division multiple access

.... demand assignment multiple access

... frequency division multiple access

.... time division multiple access

... packet transmission

. . . . Aloha system

... single channel per carrier transmission

. . microwave attenuation . . radar transmission

. . radio transmission

. . . double sideband transmission ... ionospheric propagation

. . . . ionospheric F-scatter propagation

. . . microwave transmission

multipath transmission

... short wave radio transmission single sideband transmission

spread spectrum transmission

. . . transequatorial propagation
. . . transhorizon radio propagation

satellite transmission

. telemetry
. . biotelemetry
. . P.A.C.M. telemetry

PCM telemetry

. . . radio telemetry . . . . pulse frequency modulation

telemetry . television transmission

sound transmission

. stress propagation

. telephony . wave propagation

. . acoustic propagation

. . . sound propagation

diffraction propagation

. . ground wave propagation

ionospheric propagation ... ionospheric F-scatter propagation

. . light scattering

. . . halos

. . scatter propagation

. . . ionospheric F-scatter propagation

. . shock wave propagation . transequatorial propagation

absorptance atmospheric attenuation

attenuation broadcasting ∞ conduction

diffraction

electromagnetic absorption electromagnetic radiation

optical filters

output ∞ propagation radar attenuation

radio attenuation reflection refraction signal reflection

telecommunication transmissivity transmittance wave dispersion

transmission circuits

GS circuits

transmission circuits

circuit protection electric power transmission signal stabilization strip transmission lines

telecommunication

transmission efficiency

efficiency GS

. transmission efficiency

Aloha system attenuation coefficients bit error rate

carrier to noise ratios data transmission downlinking

electromagnetic wave transmission frequency hopping

intersymbolic interference

network control opacity

packet transmission

packets (communication) power efficiency signal transmission

transmission rate (communications) transmittance uplinking

transmission electron microscopy

(added December 1992)
DEF A type of electron microscopy in which the specimen transmits an electron beam focused on it. Image contrasts are formed by the scattering of electrons out of the beam. Various magnetic lenses perform functions analogous to

those of ordinary lenses in light microscopy.

TEM (microscopy)

microscopy

. electron microscopy ... transmission electron

microscopy electron beams electron scattering field emission

ion microscopes magnetic lenses microanalysis

phase contrast scanning tunneling microscopy

transmission fluids RT fluid transmission lines

hydraulic fluids

working fluids

∞ fluids

transmission lines The conductive connectons between system elements which carry signal power. (2) lines used for electric power transmission.

trunks (lines)

transmission lines

. communication cables

. . coaxial cables . fluid transmission lines

. power lines

. strip transmission lines . . microstrip transmission lines

. submarine cables . underground transmission lines acoustic delay lines

antenna couplers

antenna feeds RT absorptance . . radiotelephones backward waves absorptivity . . sonobuoys ∞ cables density (mass/volume) . . transmitter receivers light scattering circuit protection . repeaters circuits RT antennas opacity delta antennas physical properties attenuation directional couplers translucence duplexers distributed amplifiers transmission ∞ instruments electric conductors transmittance microphones electric current transparence receivers electric power transmission transponders signal encoding telecommunication electric wire visibility electrical engineering television transmission electrification transmissometers transponders GS measuring instruments harnesses . optical measuring instruments transmutation impedance matching insulators ... transmissometers GS nuclear reactions optical equipment . nuclear transformations ∞ lines mode transformers . optical measuring instruments . . transmutation . transmissometers neutron irradiation nonresonance optical fibers densitometers neutron transmutation doping photometers radiogenic materials Smith chart standing wave ratios radiance telephotometry trans-Neptunian objects superconducting power transmission (added June 2006) telecommunication transmittance DEF Solar system objects that orbit the sun waveguides at an average distance that is greater than the wiring The ratio of the radiant flux transmitted orbital distance of Neptune. by a medium or a body to the incident flux. TNO (astronomy) transmission loss The reduction in the magnitude of electromagnetic properties celestial bodies some characteristic of a signal between two stated points in a transmission system. . trans-Neptunian objects . optical properties transmittance . . Charon . . Pluto (planet) attenuation absorptance attenuation coefficients . . Quaoar current regulators density (mass/volume) electric power transmission asteroids electromagnetic absorption insertion Kuiper belt Oort cloud insertion loss infrared absorption light (visible radiation) losses planetology optical density lossy media solar system photometry silence ray tracing transoceanic communication transmission rate (communications) reflectance voltage regulators telecommunication scattering . transoceanic communication wave dispersion thermochromic coatings transoceanic systems transmission transoceanic communication transmission rate (communications) transmission efficiency (added July 1993) facsimile communication transmissivity transmission speed (communications) radio communication transmissometers GS rates (per time) Relay satellites transmission rate transparence transoceanic flight (communications) DEF Flight across an ocean. access time transmitter receivers DEF Combinations of transmitters and re-ceivers in singe housings, with some compo-RT ∞ flight bit error rate channel capacity nents being used by both units. Used for transtransoceanic systems data transmission transoceanic systems delay ceivers. . transoceanic communication intercontinental ballistic missiles UF transceivers interprocessor communication GS communication equipment satellite communication signal reception . radio receivers ocean data acquisitions systems signal transmission . transmitter receivers systems telecommunication radio equipment télecommunication . radio receivers transportation time lag transmission efficiency . . transmitter receivers world data centers radio transmitters transmission loss . transmitter receivers transonic aircraft supersonic aircraft transmission speed (communications) USE receivers USE transmission rate . radio receivers Transonic Aircraft Technology Program
USE TACT program (communications) . transmitter receivers transmitters transmissions (machine elements) . radio transmitters DEF The gearing system by which power is . transmitter receivers transonic compressors transmitted from the engine to the live axle in an compressors interrogation GS automobile. Also known as gearboxes. transonic compressors transponders gearboxes supersonic compressors GS mechanical drives turbocompressors Devices used for the generation of . transmissions (machine elements) signals of any type and form which are to be transmitted. Used for senders. transonic flight gears shafts (machine elements) RT ∞ flight senders rocket flight torque converters torque motors transmitters sonic booms vehicle wheels . emergency locator transmitters supersonic flight instrument transmitters . radar transmitters transmissivity transonic flow

. radio transmitters

. . radiometeorographs

. . . omnidirectional radio ranges

. . . . self calibrating omnirange

. . radio beacons

. . radiosondes

. . . ionosondes

. . . rawinsondes

DEF In aerodynamics, flow of a fluid over a body in the range just above and just below the acoustic velocity. Used for sonic flow and tran-

sonics.

UF

GS

sonic flow

transonics

. compressible flow

fluid flow

1006

to the boundary.

DEF Concerning radiation incident upon the

boundary between two media, transmissivity is

the ratio of the radiation transmitted through the boundary to the component of radiation normal

electromagnetic properties
. optical properties

transmissivity

|         | transonic flow  | turbidity  | C-2 aircraft  |
|---------|---|--|---|
| RT      | aerodynamics  |  | C-5 aircraft  |
|         | compressibility effects   | transparent materials  | C-9 aircraft  |
| c       | ∞ flow  | USE transparence   | C-15 aircraft   |
|         | flow velocity   | Account to the contract of the | C-17 aircraft   |
|         | gas flow  | transpiration  | C-33 aircraft   |
|         | nozzle flow   | DEF The passage of gas or liquid through a   | C-35 aircraft   |
|         | Ringleb flow  | porous solid (usually under conditions of mo-  | C-46 aircraft   |
|         | shock waves   | lecular flow). Used for fluid transpiration.   | C-47 aircraft   |
|         | sonic nozzles   | UF fluid transpiration   | C-54 aircraft   |
|         | subsonic flow   | GS phase transformations   |   |
|         | supersonic flow   | . vaporizing   | C-118 aircraft  |
|         | trisonic wind tunnels   | evaporation  | C-119 aircraft  |
|         | wind tunnels  | transpiration  | C-121 aircraft  |
|         |   | RT cooling   | C-123 aircraft  |
| transor | nic flutter   | cooling systems  | C-124 aircraft  |
| GS      | vibration   | evanescence  | C-130 aircraft  |
|         | . structural vibration  | evapotranspiration   | C-131 aircraft  |
|         | flutter   | evolution (liberation)   | C-133 aircraft  |
|         | transonic flutter   | gas evolution  | C-135 aircraft  |
|         | self induced vibration  | mass transfer  | C-140 aircraft  |
|         | transonic flutter   | molecular flow   | C-141 aircraft  |
| RT      | missile vibration   | outgassing   | C-160 aircraft  |
|         | subsonic flutter  | permeating   | CH-21 helicopter  |
|         | supersonic flutter  | perspiration   | CL-44 aircraft  |
|         | •   | plant physiology   | DC 3 aircraft   |
| transon | ic inlets   | temperature control  | DC 7 aircraft   |
|         | supersonic inlets   |  | P-160 aircraft  |
| 002     | caper como micro  | transpiration cooling  | P-166 aircraft  |
| 4       | .!  | USE sweat cooling  | spanloader aircraft   |
|         | nic nozzles   |  | YC-14 aircraft  |
| RT      | conical nozzles   | transplantation  | . CH-3 helicopter   |
|         | convergent-divergent nozzles  | RT clinical medicine   | . CH-34 helicopter  |
|         | hypersonic nozzles  | heart implantation   | . CH-46 helicopter  |
| С       | ∞ nozzles   | surgery  | . CH-47 helicopter  |
|         | sonic nozzles   |  | . CH-54 helicopter  |
|         | supersonic nozzles  | transplutonic planets  | . CL-84 aircraft  |
|         | wind tunnel nozzles   | (added June 1998)  | . CL-823 aircraft   |
|         |   | USE hypothetical planets   | . Concorde aircraft   |
| transor | nic speed   |  | . CV-880 aircraft   |
| SN      | (APPROXIMATELY MACH 0. 8 TO 1. 2)   | transponder control group  | . DC 8 aircraft   |
| DEF     | The speed of a body relative to the   | UF TCG (tracking)  | . DC 9 aircraft   |
|         | ding fluid at which the flow is in some   | RT ∞ control   | . DC 10 aircraft  |
|         | on the body subsonic and in other places  | radar tracking   | . DH 121 aircraft   |
| superso |   | satellite tracking   | . DH 125 aircraft   |
| GS      | rates (per time)  | spacecraft tracking  | . DHC 2 aircraft  |
|         | transonic speed   | telemetry  | . DHC 4 aircraft  |
|         | velocity  | transponders   | . DHC 5 aircraft  |
|         | . transonic speed   |  | . DO-31 aircraft  |
| RT      | acoustic velocity   | transponders   | . DO-328 aircraft   |
|         | subsonic speed  | DEF Combined receiver and transmitter  | . Electra aircraft  |
|         | supersonic speed  | whose funcion is to transmit signals automati-   | . European Airbus   |
|         |   | cally when triggered by an interrogator. Used for  | A-300 aircraft  |
| transon | ic turbines   | responders.  | A-310 aircraft  |
| USE     | supersonic turbines   | UF responders  | A-320 aircraft  |
|         | •   | GS radio equipment   | A-330 aircraft  |
| transor | nic wind tunnels  | . transponders   | A-340 aircraft  |
| GS      | test facilities   | RT air traffic control   | A-380 aircraft  |
| 00      | . wind tunnels  | Beacon Collision Avoidance System  | . F-27 aircraft   |
|         | transonic wind tunnels  | interrogation  | . F-28 transport aircraft   |
| RT      | blowdown wind tunnels   | radar beacons  | . G-1 aircraft  |
| IXI     | hypersonic wind tunnels   | radar equipment  | . G-222 aircraft  |
|         | slotted wind tunnels  | radio receivers  | . H-19 helicopter   |
|         | subsonic wind tunnels   | radio transmitters   | H-53 helicopter   |
|         | supersonic wind tunnels   | transmissivity   | . H-56 helicopter   |
|         | wing flow method tests  | transmitter receivers  | . HC-3 helicopter   |
|         | wing now method tests   | transmitters   | . HFB-320 aircraft  |
|         |   | transponder control group  | . IL-14 aircraft  |
| transon |   |  | . IL-76 aircraft  |
| USE     | transonic flow  | transport aircraft   | . IL-86 aircraft  |
|         |   | GS transport aircraft  | . IL-96 aircraft  |
| transpa |   | . Aladin 2 aircraft  | . L-1011 aircraft   |
| UF      | transparent materials   | . AN-2 aircraft  | . L-2000 aircraft   |
| GS      | electromagnetic properties  | . AN-22 aircraft   | . light intratheater transport  |
|         | . optical properties  | . AN-24 aircraft   | . light transport aircraft  |
|         |   | Argony MV 1 giroroft   | <ul> <li>Lockheed model 18 aircraft</li> </ul>  |
| RT      | transparence  | . Argosy MK-1 aircraft   |   |
| I. I    | transparence absorptance  | . BAC 111 aircraft   | . MD 11 aircraft  |
| KI      | . transparence<br>absorptance<br>absorptivity   | . BAC 111 aircraft<br>. Boeing 707 aircraft  | . MD 11 aircraft<br>. MD 80 aircraft  |
| KI      | transparence absorptance  | . BAC 111 aircraft   | . MD 11 aircraft  |
| KI      | transparence<br>absorptance<br>absorptivity<br>atmospheric optics<br>clarity  | . BAC 111 aircraft . Boeing 707 aircraft . Boeing 720 aircraft . Boeing 727 aircraft   | . MD 11 aircraft<br>. MD 80 aircraft<br>. MH-262 aircraft<br>. Mystere 20 aircraft  |
| KI      | transparence absorptance absorptivity atmospheric optics  | . BAC 111 aircraft<br>. Boeing 707 aircraft<br>. Boeing 720 aircraft   | . MD 11 aircraft<br>. MD 80 aircraft<br>. MH-262 aircraft   |
| KI      | transparence<br>absorptance<br>absorptivity<br>atmospheric optics<br>clarity  | . BAC 111 aircraft . Boeing 707 aircraft . Boeing 720 aircraft . Boeing 727 aircraft . Boeing 727 aircraft . Boeing 733 aircraft . Boeing 737 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter   |
| KI      | transparence absorptance absorptivity atmospheric optics clarity density (mass/volume)  | . BAC 111 aircraft . Boeing 707 aircraft . Boeing 720 aircraft . Boeing 727 aircraft . Boeing 733 aircraft . Boeing 733 aircraft   | . MD 11 aircraft<br>. MD 80 aircraft<br>. MH-262 aircraft<br>. Mystere 20 aircraft<br>. Mystere 50 aircraft   |
| KI      | transparence absorptance absorptivity atmospheric optics clarity density (mass/volume) electromagnetic absorption   | . BAC 111 aircraft . Boeing 707 aircraft . Boeing 720 aircraft . Boeing 727 aircraft . Boeing 727 aircraft . Boeing 733 aircraft . Boeing 737 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter . S-61 helicopter . SA-330 helicopter   |
| KI      | transparence absorptance absorptivity atmospheric optics clarity density (mass/volume) electromagnetic absorption haze  | BAC 111 aircraft Boeing 707 aircraft Boeing 720 aircraft Boeing 727 aircraft Boeing 733 aircraft Boeing 737 aircraft Boeing 747 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter . S-61 helicopter . SA-330 helicopter . SC-5 aircraft   |
| KI      | transparence absorptance absorptivity atmospheric optics clarity density (mass/volume) electromagnetic absorption haze light transmission   | BAC 111 aircraft Boeing 707 aircraft Boeing 720 aircraft Boeing 727 aircraft Boeing 733 aircraft Boeing 737 aircraft Boeing 747 aircraft Boeing 747 aircraft Boeing 757 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter . S-61 helicopter . SA-330 helicopter   |
| KI      | transparence absorptance absorptivity atmospheric optics clarity density (mass/volume) electromagnetic absorption haze light transmission opacity   | BAC 111 aircraft Boeing 707 aircraft Boeing 720 aircraft Boeing 727 aircraft Boeing 733 aircraft Boeing 737 aircraft Boeing 747 aircraft Boeing 747 aircraft Boeing 757 aircraft Boeing 757 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter . S-61 helicopter . SA-330 helicopter . SC-5 aircraft   |
| KI      | transparence absorptance absorptivity atmospheric optics clarity density (mass/volume) electromagnetic absorption haze light transmission opacity optical density                               | BAC 111 aircraft Boeing 707 aircraft Boeing 720 aircraft Boeing 727 aircraft Boeing 733 aircraft Boeing 737 aircraft Boeing 747 aircraft Boeing 757 aircraft Boeing 757 aircraft Boeing 767 aircraft Boeing 767 aircraft Boeing 777 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter . S-61 helicopter . SA-330 helicopter . SC-5 aircraft . SC-7 aircraft                                     |
| KI      | transparence absorptance absorptionce absorptivity atmospheric optics clarity density (mass/volume) electromagnetic absorption haze light transmission opacity optical density radome materials | BAC 111 aircraft Boeing 707 aircraft Boeing 720 aircraft Boeing 720 aircraft Boeing 727 aircraft Boeing 733 aircraft Boeing 737 aircraft Boeing 747 aircraft Boeing 767 aircraft Boeing 767 aircraft Boeing 777 aircraft Boeing 777 aircraft Boeing 777 aircraft Boeing 777 aircraft   | . MD 11 aircraft . MD 80 aircraft . MH-262 aircraft . MH-262 aircraft . Mystere 20 aircraft . Mystere 50 aircraft . S-58 helicopter . S-61 helicopter . SA-330 helicopter . SC-5 aircraft . SC-7 aircraft . SH-3 helicopter |

|          | Cessna 402B aircraft                      | diffusion theory                                       | trucks   |
|----------|---|--|--|
|          | Mercure aircraft                          | gas transport  |  |
|          | . Boeing 717 aircraft                     | integral equations                                     | transportation networks                            |
|          | . tanker aircraft                         | molecular interactions                                 | DEF Networks of highways, railways, sub-           |
|          | . TU-124 aircraft                         | Monte Carlo method                                     | ways, etc., for the movement of passenger and      |
|          | . TU-144 aircraft                         | pollution transport                                    | cargo.   |
|          | . TU-154 aircraft                         | reaction-diffusion equations                           | RT highways  |
|          | . TU-204 aircraft                         | ∞ theories   | intersections                                      |
|          | . UH-34 helicopter                        |  | rapid transit systems                              |
|          | . UH-60A helicopter                       | ∞ transport vehicles                                   | roads  |
|          | . UH-61A helicopter                       | SN ((USE OF A MORE SPECIFIC TERM I                     | s transportation                                   |
|          | . VC-10 aircraft                          | RECOMMENDEDCONSULT THE TER<br>LISTED BELOW)            | transporter  |
|          | . very large transport aircraft           | RT crawler tractors                                    | GS surface vehicles                                |
|          | . Viscount aircraft                       | ground effect machines                                 | . transporter                                      |
|          | . XC-142 aircraft                         | rapid transit systems                                  | RT ∞ containers                                    |
| рт       | . YS-11 aircraft                          | ships  | ∞ vehicles   |
| RT       | air transportation<br>aircraft            | transport aircraft                                     | 761116166  |
| •        | commercial aircraft                       | ∞ vehicles   | transputers  |
|          | general aviation aircraft                 |  | (added August 1989)                                |
|          | jet aircraft                              | transportation   | GS data processing equipment                       |
|          | light aircraft                            | GS transportation                                      | . computers  |
| 00       | low wing aircraft                         | . air transportation                                   | transputers  |
|          | military aircraft                         | . marine transportation                                | RT architecture (computers)                        |
|          | passenger aircraft                        | . rail transportation                                  | distributed processing                             |
|          | rotary wing aircraft                      | . rapid transit systems                                | interprocessor communication                       |
| ~        | subsonic aircraft                         | space transportation                                   | microprocessors                                    |
|          | supersonic aircraft                       | space transportation system                            | parallel processing (computers)                    |
| ~        | transport vehicles                        | Advanced Launch System (S                              | ,  |
|          | turbofan aircraft                         | Saenger space transportation                           |  |
|          | turboprop aircraft                        | system   | DEF Elements above uranium in the peri-            |
|          | utility aircraft                          | . urban transportation                                 | odic table, that is, with an atomic number greater |
|          | V/STOL aircraft                           | RT artificial harbors automated guideway transit vehic | than 92.   |
|          | water takeoff and landing aircraft        | 0 ,  | or orientical distriction                          |
|          | _   | automated transit vehicles                             | . actinide series                                  |
| transpoi | t coefficients                            | cargo  | transuranium elements                              |
| USE      | transport properties                      | contractors  | americium  |
|          |   | conveyors  | americium isotopes                                 |
|          | rt properties                             | deepwater terminals<br>delivery                        | americium 241                                      |
| UF       | transport coefficients                    | distributing   | berkelium  |
| GS       | transport properties                      | ∞ distributing<br>∞ distribution                       | californium  |
|          | . atmospheric conductivity                | electric automobiles                                   | californium isotopes                               |
|          | ionospheric conductivity                  | evacuating (transportation)                            | curium   |
|          | . carrier mobility                        | freight costs  | curium isotopes<br>curium 242                      |
|          | electron mobility                         | freighters   | curium 242   |
|          | hole mobility                             | handling equipment                                     | einsteinium  |
|          | . diffusion coefficient Soret coefficient | hauling  | fermium  |
|          | . electrical resistivity                  | highways   | lawrencium   |
|          | ionospheric conductivity                  | logistics  | mendelevium  |
|          | magnetoresistivity                        | materials handling                                     | neptunium  |
|          | photoconductivity                         | missiles   | neptunium isotopes                                 |
|          | plasma conductivity                       | motor vehicles   | nobelium   |
|          | superconductivity                         | offshore docking                                       | plutonium  |
|          | Kondo effect                              | offshore platforms                                     | plutonium isotopes                                 |
|          | . gaseous diffusion                       | packaging  | plutonium 238                                      |
|          | gaseous self-diffusion                    | passengers   | plutonium 239                                      |
|          | . ionic mobility                          | pipelines  | plutonium 240                                      |
|          | . thermal conductivity                    | riding quality   | plutonium 241                                      |
|          | . thermal diffusivity                     | roads  | plutonium 244                                      |
|          | . viscosity                               | routes   | sergenium  |
|          | eddy viscosity                            | services   | . nuclides   |
|          | gas viscosity                             | site selection   | isotopes   |
| RT       | binary fluids                             | tanker terminals                                       | radioactive isotopes                               |
|          | Boltzmann transport equation              | terminal facilities                                    | transuranium elements                              |
| 00       | conductivity                              | tourism  | americium  |
|          | diffusion                                 | tractors   | americium isotopes                                 |
|          | flow coefficients                         | traffic  | americium 241                                      |
|          | Hall effect                               | transcontinental systems                               | berkelium  |
|          | Hall resistance                           | transferring   | californium  |
|          | heat transfer                             | transoceanic systems                                   | californium isotopes                               |
|          | high temperature tests                    | transportation networks<br>∞ travel                    | curium   |
|          | kinetic theory                            | trucks   | curium isotopes                                    |
|          | Lighthill gas model                       | llucks   | curium 242   |
|          | mobility                                  | transportation energy                                  | curium 244   |
| 00       | physical properties                       | transportation energy                                  | einsteinium  |
|          | pollution transport                       | RT allocations cargo                                   | fermium<br>lawrencium                              |
| ~        | properties                                | cargo<br>commercial energy                             | mendelevium  |
|          | radiation transport<br>Seebeck effect     | distributing   | neptunium  |
|          |   | domestic energy  | neptunium  |
| ~        | solid state physics<br>thermoelectricity  | economic factors                                       | neptunium isotopes                                 |
|          | monnociconicity                           | ∞ energy   | plutonium  |
| transno  | rt theory                                 | energy conversion                                      | plutonium isotopes                                 |
| GS       | kinetic theory                            | engines  | plutonium 238                                      |
|          | . transport theory                        | fuels  | plutonium 239                                      |
|          | Chapman-Enskog theory                     | hauling  | plutonium 240                                      |
|          | Eyring theory                             | industrial energy                                      | plutonium 241                                      |
|          | mixing length flow theory                 | ships  | plutonium 244                                      |
| RT       | Boltzmann transport equation              | ∞ tankers  | sergenium  |

|           | metals                                      |          | gamma rays                         |           | artificial radiation belts                                   |
|-----------|---|----------|------------------------------------|-----------|--|
|           | . actinide series                           |          | longitudinal waves                 |           | inner radiation belt   |
|           | transuranium elements                       |          | magnetohydrodynamic flow           |           | outer radiation belt   |
|           |   |          |                                    |           |  |
|           | americium                                   |          | plane waves                        |           | proton belts   |
|           | americium isotopes                          |          | radio waves                        | RT        | charged particles  |
|           | americium 241                               |          | S waves                            |           | electron precipitation                                       |
|           | berkelium                                   |          | SH waves                           |           | laser cooling  |
|           |   |          |                                    |           | · ·  |
|           | californium                                 |          | vibration mode                     |           | proton precipitation   |
|           | californium isotopes                        |          | wave packets                       |           | trapping   |
|           | curium                                      | ~        | waves                              |           |  |
|           | curium isotopes                             |          |                                    | tranned   | plasma avalanche triggered transit                           |
|           | •   | tronovor | ach evoited atmospheric lesers     |           | TRAPATT devices  |
|           | curium 242                                  |          | sely excited atmospheric lasers    | USE       | TRAFATT devices  |
|           | curium 244                                  | USE      | TEA lasers                         |           |  |
|           | einsteinium                                 |          |                                    | trapped   | I vortices   |
|           | fermium                                     | TRAP p   | rogram                             | (add      | ed August 1989)  |
|           |   |          |                                    |           | Air flow in rotary motion but trapped                        |
|           | lawrencium                                  | GS       | programs                           |           |  |
|           | mendelevium                                 |          | . TRAP program                     |           | to leading edge vortex separation, which                     |
|           | neptunium                                   | RT       | plasma control                     | increase  | es not only lift but also drag. The trapped                  |
|           |   | 00       | radiation                          | vortices  | result in thrust and reduced drag. Used                      |
|           | neptunium isotopes                          | -        | Tudiation                          | for vorte |  |
|           | nobelium                                    | TDADAT   | T devices                          |           |  |
|           | plutonium                                   | IRAPAI   | T devices                          | UF        | vortex traps   |
|           | plutonium isotopes                          | UF       | trapped plasma avalanche triggered | GS        | vortices   |
|           |   |          | transit                            |           | . trapped vortices   |
|           | plutonium 238                               | GS       |                                    | RT        | counterflow  |
|           | plutonium 239                               | GS       | electronic equipment               | IXI       |  |
|           | plutonium 240                               |          | . solid state devices              |           | flow distribution  |
|           | plutonium 241                               |          | semiconductor devices              |           | mixing   |
|           |   |          | TRAPATT devices                    |           | rotating fluids  |
|           | plutonium 244                               | DT       |                                    |           |  |
|           | sergenium                                   |          | avalanche diodes                   |           | rotating liquids   |
| RT        | transition metals                           | ∞        | devices                            |           | turbulent mixing   |
|           | translati motalo                            |          | diodes                             |           | turbulent wakes  |
|           |   |          |                                    |           | vortex rings   |
| transve   | rse acceleration                            |          | transistors                        |           |  |
| GS        | rates (per time)                            |          |                                    |           | vorticity  |
|           | . acceleration (physics)                    | TRAPA1   | T diodes                           |           |  |
|           |   | USE      | avalanche diodes                   | trappin   | q  |
|           | transverse acceleration                     | 002      | avalations alouse                  | GS        | trapping   |
| RI∝       | o acceleration                              |          | Clabert and a second               | 00        |  |
|           | acceleration measurement                    | trapezo  | idal tail surfaces                 |           | . cryotrapping   |
|           | acceleration stresses (physiology)          | GS       | assemblies                         | RT        | conduction bands   |
|           |   |          | . tail assemblies                  |           | crystal defects  |
|           | angular acceleration                        |          |                                    |           | •  |
|           | transverse momentum                         |          | trapezoidal tail surfaces          |           | flux pinning   |
|           |   |          | planforms                          |           | ion storage  |
| tranevo   | rse loads                                   |          | . trapezoidal tail surfaces        |           | phosphorescence  |
|           |   |          | tail surfaces                      |           | radiation belts  |
|           | ed June 1992)                               |          |                                    |           |  |
| GS        | loads (forces)                              |          | . trapezoidal tail surfaces        |           | trapped magnetic fields                                      |
|           | transverse loads                            | RT       | control surfaces                   |           | trapped particles  |
| RT        |   |          | horizontal tail surfaces           |           |  |
| KI        | dynamic loads                               |          |                                    | traps     |  |
|           | force distribution                          |          | hypersonic aircraft                |           | 4  |
|           | load distribution (forces)                  |          | rudders                            | GS        | traps  |
|           | loading moments                             |          | stabilizers (fluid dynamics)       |           | . cold traps   |
|           |   |          | supersonic aircraft                |           | ion traps (instrumentation)                                  |
|           | shear stress                                |          |                                    |           |  |
|           | static loads                                | ~        | surfaces                           |           | . vapor traps  |
|           | stress distribution                         |          | sweptback tail surfaces            | RT        | concentrators  |
|           |   |          | •                                  |           | entrapment   |
|           | stresses                                    | 4        | talat automo                       |           | ·  |
|           |   |          | idal wings                         |           | separators   |
| transve   | rse momentum                                | GS       | airfoils                           |           | valves   |
|           |   |          | . wings                            |           |  |
| •         | ed June 1999)                               |          |                                    | ∞ travel  |  |
| GS        | momentum                                    |          | low aspect ratio wings             | SN        | (LICE OF A MODE SPECIFIC TERM IS                             |
|           | . transverse momentum                       |          | trapezoidal wings                  | SIN       | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
| RT        | angular momentum                            |          | swept wings                        |           | LISTED BELOW)  |
| 13.1      |   |          | swept forward wings                | DT        |  |
|           | elementary particle interactions            |          |                                    | RT        | distance   |
|           | particle motion                             |          | trapezoidal wings                  |           | harbors  |
|           | transverse acceleration                     |          | sweptback wings                    |           | logistics  |
|           |   |          | trapezoidal wings                  |           | range (extremes)   |
|           | !!!!  |          |                                    |           |  |
|           | rse oscillation                             |          | planforms                          |           | tourism  |
| DEF       | Oscillation in which the direction of       |          | . wing planforms                   |           | transportation   |
| motion    | of the particles is perpendicular to the    |          | swept forward wings                |           | ·  |
|           | of advance of the oscillatory motion in     |          | trapezoidal wings                  | travalin  | g charge   |
|           |   |          |                                    |           |  |
| contrast  | with longitudinal oscillation, in which the |          | sweptback wings                    | GS        | electric charge  |
| direction | of motion in the same as that of ad-        |          | trapezoidal wings                  |           | . traveling charge   |
|           | Jsed for transverse vibration.              |          |                                    | RT        | electrodynamics  |
|           |   | tropozo  | ido                                | 111       |  |
| UF        | transverse vibration                        | trapezo  |                                    |           | energy dissipation   |
| GS        | oscillations                                | GS       | geometry                           |           | field theory (physics)                                       |
|           | . transverse oscillation                    |          | . Euclidean geometry               |           |  |
|           |   |          | polygons                           | travalin  | g ionospheric disturbances                                   |
|           | H waves                                     |          |                                    |           |  |
| RT        | gamma rays                                  |          | tetragons                          |           | Atmospheric gravity waves originating                        |
|           | harmonic oscillation                        |          | trapezoids                         | at the    | auroral oval or at the terminator with                       |
|           | lateral oscillation                         |          | •                                  |           | of 1000 km/hour over the Earths sur-                         |
|           |   |          | magnetic fields                    | •         |  |
|           | stable oscillations                         |          | magnetic fields                    |           | ue to interaction between the neutra                         |
|           | transient oscillations                      | GS       | magnetic fields                    | atmospl   | nere and the ionosphere, they result ir                      |
|           |   |          | . trapped magnetic fields          |           | ary enhancements and depletions of the                       |
| trancis   | rso vibration                               | DТ       |                                    |           |  |
|           | rse vibration                               | RT       | flux pinning                       |           | ere that travel with the gravity waves.                      |
| USE       | transverse oscillation                      |          | magnetically trapped particles     | UF        | TID  |
|           |   |          | plasma control                     | GS        | ionospheric disturbances                                     |
| tranevo   | rse waves                                   |          | superconductivity                  |           | . traveling ionospheric                                      |
|           |   |          |                                    |           |  |
|           | Waves in which the direction of dis-        |          | trapping                           |           | disturbances   |
| placeme   | ent at each point of the medium is paral-   |          |                                    | RT        | gravity waves  |
|           | e wave front.                               | tranned  | particles                          |           | ionospheric currents   |
|           |   |          |                                    |           | •  |
| GS        | transverse waves                            | GS       | particles                          |           | ionospheric propagation                                      |
|           | . H waves                                   |          | . trapped particles                |           | ionospheric storms   |
| RT        | elastic waves                               |          | magnetically trapped particles     |           | ionospheric tilts  |
| 13.1      | electromagnetic radiation                   |          | radiation belts                    |           | magnetic variations  |
|           |   |          |                                    |           | manneur vanannns   |

sudden ionospheric disturbances ∞ plates partial differential equations. hybrid-Trefftz finite element method treadmills traveling salesman problem analysis (mathematics) physical exercise operations research . numerical analysis probability theory physical fitness . . approximation ... boundary element method physical work ∞ problems statistical analysis physiological tests ... Trefftz method RT bending theory traveling solvent method treads boundary conditions stairways (LIMITED TO CRYSTAL GROWTH RT boundary value problems TECHNIQUES) tires finite element method growth vehicular tracks partial differential equations . crystal growth plate theory . traveling solvent method TREAT (test facility) structural analysis USE **Transient Reactor Test Facility** RT additives carrier injection trellis coding electroepitaxy (added August 1991) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) ∞ methodology DEF A 'sliding window' method of encoding a binary data stream into a sequence of real traveling wave amplifiers conditioning (treating) UF numbers that are input to a noisy transmission amplifiers GS RT air conditioning channel. . traveling wave amplifiers coding clinical medicine GS amplifier design . signal encoding heat treatment power amplifiers prewhitening trellis coding traveling wave tubes sewage treatment RT binary codes surface treatment channel noise traveling wave masers thermomechanical treatment ∞ codes GS stimulated emission devices waste treatment concatenated codes . masers water treatment convolution integrals . traveling wave masers phase modulation amplifiers tree ring dating phase shift keying cavity resonators USE dendrochronology coherent electromagnetic radiation tremors trees RT earthquake resistance (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) traveling wave modulation SN earthquakes modulation paralysis traveling wave modulation Parkinson disease RT lasers trees (mathematics) Rouse belts light modulation trees (plants) wave diffraction trend analysis (added May 1989) trees (mathematics) traveling wave tubes DEF A management tool for evaluating GS trees (mathematics) DEF Electron tubes in which streams of variation in data with the ultimate objective of fault trees electrons interact continuously or repeatedly analysis (mathematics) forecasting future events based upon an examiwith guided electromagnetic waves moving subcircuits nation of past results. stantially in synchronism with them, and in such graph theory GS information analysis a way that there is a net transfer of energy from graphs (charts) . trend analysis the streams to the waves. Used for crestatrons RT ∞ analyzing nets and helix tubes. Petri nets data mining UF crestatrons sneak circuit analysis failure analysis helix tubes performance prediction topology electron tubes prediction analysis techniques ∞ trees . vacuum tubes regularity . . microwave tubes trees (plants) reliability analysis ... traveling wave tubes DEF Woody plants having one well defined statistical analysis . . . . backward wave tubes stem and a more or less definitely formed crown, time series analysis . . . . . helitrons usually attaining a height of at least 8 feet. trends . . . carcinotrons GS plants (botany) microwave equipment . trees (plants) trends . microwave tubes . . citrus trees extrapolation . . traveling wave tubes . . conifers forecasting ... backward wave tubes . deciduous trees growth . . . . helitrons periodic variations balsa . . carcinotrons canopies (vegetation) ∞ projection RT backward waves chaparral time series analysis Brillouin flow clearings (openings) trend analysis crossed field amplifiers defoliants cyclotron resonance devices Tresca flow defoliation electron bunching GS fluid flow dendrochronology . plastic flow magnetostatic amplifiers forests magnetrons Tresca flow geobotany microwave oscillators ductility herbicides oscillations logging (industry) stability scalloping Masonite (trademark) yield point traveling wave amplifiers orchards triacetin phreatophytes traveling waves GS acetates boowyla traveling waves . triacetin silviculture solitary waves esters timber identification backward waves . triacetin timber inventory elastic waves acetic acid timber vigor electromagnetic radiation glycerols timberline nonresonance plasticizers ∞ trees phase velocity vegetation solvents plane waves wood radio waves triaminoguanidinenitrate TAGN Trefftz method USE (added July 1998) travs triaminoguanidinium azide Boundary-type approximation scheme RT ∞ buckets

for the solution of boundary value problems for

nitrogen compounds

∞ containers

|             | . azides (organic)                      |                | . tribometers                             | ther spo | ontaneously or through application of an |
|-------------|---|----------------|---|----------|--|
|             | triaminoguanidinium azide               | RT             | friction                                  |          | l stimulus.                              |
|             | organic compounds                       |                | friction measurement                      | GS       | circuits                                 |
|             | . amines                                | c              | o instruments                             |          | . trigger circuits                       |
|             | diamines                                |                | lubricant tests                           | RT       | anticoincidence detectors                |
|             | guanidines                              |                | sliding friction                          |          | bistable circuits                        |
|             | triaminoguanidinium azide               |                | tribology                                 |          | gates (circuits)                         |
|             |   |                | wear tests                                |          | multivibrators                           |
|             | otrinitrobenzene                        |                |   |          | threshold gates                          |
| USE         | TATB                                    | tribome        |   |          | threshold logic                          |
|             |   |                | ed September 2002)                        |          | thyristors                               |
| triangle    |   | USE            | friction measurement                      |          | trigatrons                               |
| GS          | geometry                                |                |   |          |  |
|             | . Euclidean geometry                    | tributar       | ies                                       | triggers | <b>;</b>                                 |
|             | polygons                                | RT             | drainage patterns                         | USE      | actuators                                |
| DT          | triangles                               |                | Earth resources                           |          |  |
| RT          | tetrahedrons                            |                | estuaries                                 | trigono  | metric functions                         |
|             | trigonometry                            |                | rivers                                    | GS       | analysis (mathematics)                   |
| triangul    | ar wings                                |                |   |          | . real variables                         |
|             | delta wings                             | trichlori      |   |          | periodic functions                       |
| OOL         | delta Willigs                           | USE            | chlorides                                 |          | trigonometric functions                  |
| triangu     | lation                                  | 4 mi a la la m | a a thuile ma                             |          | cosine series                            |
| RT          | angles (geometry)                       |                | oethylene                                 |          | sine series                              |
|             | mapping                                 |                | ed September 1995)                        |          | tangents                                 |
|             | navigation                              | GS             | halogen compounds . chlorine compounds    |          | functions (mathematics)                  |
|             | trigonometry                            |                | trichloroethylene                         |          | . transcendental functions               |
|             | wildlife radiolocation                  |                | organic compounds                         |          | periodic functions                       |
|             |   |                | . ethylene compounds                      |          | trigonometric functions                  |
| triatom     | ic molecules                            |                | chloroethylene                            |          | cosine series                            |
| GS          | molecules                               |                | trichloroethylene                         |          | sine series                              |
|             | . polyatomic molecules                  | RT             | cleaning                                  |          | tangents                                 |
|             | triatomic molecules                     | KI             | •   | RT       | Fresnel integrals                        |
| RT          | diatomic molecules                      |                | reduction (chemistry)<br>solvents         |          | sine waves                               |
|             |   |                | Solvents                                  |          | trigonometry                             |
| triaxial    | stresses                                | Trident        | aircraft                                  |          |  |
| UF          | triaxiality                             | USE            | DH 121 aircraft                           | trigono  | metry                                    |
| GS          | stresses                                | 002            | Dir izi dirordic                          | GS       | geometry                                 |
|             | . triaxial stresses                     | trident        | submarine                                 |          | . Euclidean geometry                     |
| RT          | mechanical properties                   | GS             | water vehicles                            |          | analytic geometry                        |
|             | tensile stress                          |                | . ships                                   |          | trigonometry                             |
|             |   |                | submarines                                | RT       | angles (geometry)                        |
| triaxialit  |   |                | trident submarine                         |          | ∞ science                                |
| USE         | triaxial stresses                       |                | . underwater vehicles                     |          | triangles                                |
| 4 mile alia |   |                | submarines                                |          | triangulation                            |
| tribolia    |   |                | trident submarine                         |          | trigonometric functions                  |
| GS          | animals                                 | RT             | navy                                      |          |  |
|             | . invertebrates                         |                | nuclear propulsion                        | trim (ba |  |
|             | arthropods                              |                | 1 1 1 1 1                                 | USE      | aerodynamic balance                      |
|             | insects                                 | trienes        |   |          |  |
|             | Coleoptera<br>beetles                   | GS             | organic compounds                         | trimers  |  |
|             | tribolia                                |                | . hydrocarbons                            | GS       | oligomers                                |
|             | tribolia                                |                | aliphatic hydrocarbons                    |          | . trimers                                |
| tribolog    | viv                                     |                | alkenes                                   |          | prepolymers                              |
| DEF         |   |                | trienes                                   |          | . trimers                                |
| tion.       | Colonico di monori, wodi, dila labiloa  |                |   | RT       | dimers                                   |
| RT          | abrasion                                | triethyl       | compounds                                 |          | monomers                                 |
|             | corrosion                               | GS             | alkyl compounds                           |          |  |
|             | erosion                                 |                | . triethyl compounds                      | trimeth  |  |
|             | erosive burning                         | RT o           | ∘ chemical compounds                      | GS       | drugs                                    |
|             | fretting                                |                | diethyl compounds                         |          | trimethadione                            |
|             | friction                                |                | ethyl compounds                           |          | ketones                                  |
|             | interfacial tension                     |                |   |          | . trimethadione                          |
|             | lubrication                             |                | pamine oxide                              |          | organic compounds                        |
|             | triboluminescence                       | GS             | halogen compounds                         |          | . cyclic compounds                       |
|             | tribometers                             |                | . fluorine compounds                      |          | heterocyclic compounds                   |
|             | vapor phase lubrication                 |                | fluoro compounds                          |          | trimethadione                            |
|             | wear                                    |                | fluorine organic compounds                | 4.541    | 1  |
|             |   |                | fluoroamines                              |          | yl compounds                             |
| tribolur    | ninescence                              |                | trifluoroamine oxide                      | GS       | alkyl compounds                          |
| DEF         | The emission of light caused by appli-  |                | organic compounds                         | DT       | trimethyl compounds                      |
|             | of mechanical energy to a solid.        |                | . amines                                  | KI (     | ∞ chemical compounds                     |
| GS          | emission                                |                | fluoroamines                              |          | dimethyl compounds                       |
|             | . light emission                        |                | trifluoroamine oxide                      |          | methyl compounds                         |
|             | luminescence                            |                | . fluorine organic compounds              | Talada   | d and Tabana                             |
|             | photoluminescence                       |                | fluoroamines                              |          | d and Tobago                             |
| _           | triboluminescence                       |                | trifluoroamine oxide                      | GS       | landforms<br>. islands                   |
| RT          | fluorescence                            | 4              |   |          |  |
|             | friction                                | trigatro       |   |          | West Indies                              |
|             | mechanical properties                   | GS             | switches                                  |          | Trinidad and Tobago                      |
|             | photoluminescent bands                  | D.T.           | . trigatrons                              |          | nations                                  |
|             | stresses                                | R ſ ∘          | ogas tubes                                | рт       | . Trinidad and Tobago                    |
|             | tribology                               |                | pulse modulation                          | KI       | Caribbean region                         |
| 4           |   |                | spark gaps                                |          | South America                            |
| tribome     |   |                | trigger circuits                          | 4        |  |
|             | ed September 2002)                      | 4              | -114-                                     | trinitra |  |
|             | Instruments and related methods for     |                | circuits                                  | GS       | nitrogen compounds                       |
|             | ning the degree of friction between two |                | Circuits that have two conditions of      |          | . trinitramine                           |
| bodies.     |   |                | with means for passing from one to the    |          | organic compounds                        |
| GS          | measuring instruments                   | otner w        | hen certain conditions are satisfied, ei- |          | . amines                                 |

. . trinitramine wind tunnel tests iron compounds . pyrrhotite tritium troilite trinitro compounds GS nitrogen compounds hydrogen 3 minerals chemical elements . pyrrhotite . nitro compounds . hydrogen troilite trinitro compounds RT ∞ chemical compounds . . hydrogen isotopes sulfur compounds . tritium . sulfides . nuclides . . pyrrhotite trinitrotoluene . . isotopes troilite TNT (trinitrotoluene) . . . hydrogen isotopes iron meteorites GS explosives trinitrotoluene
nitrogen compounds . tritium meteoritic composition . . . radioactive isotopes . . tritium Trojan aircraft . nitro compounds gases USE T-28 aircraft . . nitrobenzenes . hydrogen . . trinitrotoluene . . hydrogen isotopes Trojan asteroids RT exposure . tritium (added August 2000) DEF Any asteroid that orbits in the heavy water trinitrotriazocyclohexane Lagrange points of another (larger) body. In nuclear fuels USE RDX particular, those asteroids with a revolution period approximately equal to that of Jupiter (1:1 Triton triodes resonance) and clustered at either of the two One of the two satellites of the planet CATT devices RT Lagrange points--60 degrees ahead of or behind Neptune, with a diameter of about 4800 kilomediodes ters, orbiting at a mean distance of 354,000 the Jupiter. Most asteroids of this group are electron tubes kilometers. named after the heroes of the Trojan War. microwave tubes GS celestial bodies celestial bodies semiconductor devices . natural satellites . asteroids tetrodes . . Neptune satellites . Trojan asteroids thyristors . Triton Jupiter (planet) transistors Lagrangian equilibrium points three body problem Galilean satellites Neptune (planet) triols Neptune atmosphere Trojan orbits GS hydroxyl compounds satellite atmospheres . alcohols Trojan orbits Titan . . triols GS orbits . . . cyanuric acid . Trojan orbits celestial mechanics tritons GS ions triphenyl silicon many body problem tritons organic compounds three body problem particles . organic silicon compounds . charged particles Troian asteroids . triphenyl silicon . . energetic particles silicon compounds . . . nuclei (nuclear physics) Trombe walls . organic silicon compounds DEF Structures with passive solar collectors ... tritons .. triphenyl silicon . corpuscular radiation in the walls GS walls . . energetic particles . Trombe walls triphenyls ... nuclei (nuclear physics) organic compounds energy technology heat storage RT GS . . tritons . hydrocarbons alpha particles triphenyls protons phase change materials phenyls radiative heat transfer polyphenyls trivalent ions solar energy absorbers . triphenyls GS ions solar heating trivalent ions solar houses free radicals thermal insulation triple axis spectrometers positive ions USE neutron spectrometers tropical meteorology valence GS meteorology triple stars TRMM satellite tropical meteorology (added October 1988) (added May 1998) agrometeorology celestial bodies Satellite supporting the joint USel Nino stars Japanese Tropical Rainfall Measuring Mission equatorial atmosphere . triple stars GARP Atlantic Tropical Experiment (TRMM) to explore tropical rainfall and its effects binary stars on the Earth energy budget, general circulation, intertropical convergent zones companion stars and climate. The TRMM satellite represents the intraseasonal variations stellar systems first dual deployment of a precipitation radar and Madden-Julian Oscillation three body problem passive microwave radiometer on an Earthmeteorological parameters viewing satellite. quasi-biennial oscillation triplet excitation Tropical Rainfall Measuring Mission TRMM satellite ÜSE atomic energy levels sat GS artificial satellites Tropical Rainfall Measuring Mission sat triplet state (added May 1998) . meteorological satellites USE atomic energy levels ... TRMM satellite TRMM satellite . scientific satellites tripods . TRMM satellite tropical regions . GS supports atmospheric circulation jungles tripods CERES (experiment) low latitudes RT optical equipment Earth radiation budget subtropical regions equatorial atmosphere tropics tripropellants regions rain USE liquid rocket propellants tropical meteorology . tropical regions . . Amazon region (South America) intertropical convergent zones trisonic wind tunnels trochoids climatology equatorial atmosphere pivots Wind tunnels designed for subsonic, USE transonic, and supersonic flows. GS test facilities troilite equatorial regions GARP Atlantic Tropical Experiment . wind tunnels GS chalcogenides geography hot weather . trisonic wind tunnels . sulfides . . pyrrhotite slotted wind tunnels RT

... troilite

laterites

transonic flow

Lomonosov current wideband communication construction industry meteorology frames tropospheric waves (EXCLUDES RADIO WAVES)
Radio waves that are propagated by temperate regions l beams Virgin Islands Integrated Truss Structure P1 reflection from a place of abrupt change in the Integrated Truss Structure S1 dielectric constant or its gradient in the tropotropical storms Integrated Truss Structure Z1 sphere. GS storms loops GS tropospheric waves . storms (meteorology) Maxwell-Mohr method planetary waves .. tropical storms megamechanics RT . . . hurricanes elastic waves ∞ structures lee waves . . Anna hurricane struts . . typhoons radio waves supports surface waves atmospheric circulation Timoshenko beams cyclones waves meteorology trypanosome tropyl compounds storm damage . GS animals bases (chemical) tornadoes . protozoa . alkaloids . . Flagellata . tropyl compounds . . trypanosome nitrogen compounds USE tropical regions microorganisms . alkaloids . protozoa . . tropyl compounds organic compounds tropism . . Flagellata . . . trypanosome parasites GS tropism . cyclic compounds
. heterocyclic compounds . aeolotropism . geotropism trypanosome . . . alkaloids . gravitropism parasitic diseases . . . tropyl compounds . gyrotropism . neurotropism RT ∞ chemical compounds trypsin GS biopolymers troubleshooting . proteins USE maintenance (ALTITUDE APPROXIMATELY 15 TO 20 KM) . . enzymes . . trypsin The boundary between the tropotroughs organic compounds sphere and the stratosphere, usually charactercanals . proteins ized by an abrupt change of lapse rate. The ditches . . enzymes change is in the direction of increased atmoirrigation . . . trypsin spheric stability from regions below to regions low pressure RT pancreas above the tropopause. Its height varies from 15 to 20 kilometers in the tropics to about 10 trucks tryptamines SN UF kilometers in polar regions. In polar regions in (EXCLUDES UNDERCARRIAGES) GS organic compounds winter it is often difficult or impossible to detervans . amines surface vehicles GS mine just where the tropopause lies, since under . . tryptamines some conditions there is no abrupt change in . motor vehicles . . trucks . . . melatonin lapse rate at any height. . . . tank trucks antiskid devices . . . serotonin GS Earth atmosphere . cyclic compounds . lower atmosphere ... heterocyclic compounds . . troposphere automobiles . . . indoles cargo tropopause . . . . tryptamines diurnal variations delivery . . . . . melatonin dollies isothermal layers .... serotonin electric motor vehicles middle atmosphere ground handling tryptophan hauling troposphere GS acids SN (GROUND LEVEL TO APPROXIMATELY 15 materials handling . amino acids KM)
That portion of the atmosphere from ∞ military vehicles . . tryptophan recovery vehicles the Earth's surface to the stratosphere; that is, . carboxylic acids tractors the lowest 10 to 20 kilometers of the atmo-. tryptophan trailers nitrogen compounds sphere. The troposphere is characterized by transportation decreasing temperature with height, appreciable . tryptophan transportation energy vertical wind motion, appreciable water vapor organic compounds content, and weather. Dynamically, the tropo-. amino acids truncation (mathematics) . . tryptophan sphere can be divided into the following layers: USE approximation . carboxylic acids surface boundary layer, Ekman layer, and free . . tryptophan truncation errors atmosphere. Earth atmosphere DEF In computations, the errors resulting . cyclic compounds GS from the use of only a finite number of terms of an infinite series or from the approximation of operations in the infinitesimal calculus by operations in the calculus of finite differences. lower atmosphere . . heterocyclic compounds ... troposphere . . . indoles . . . . tryptophan . . tropopause chemosphere TS-11 aircraft homosphere GS analysis (mathematics) Iskra aircraft Intasat satellite . numerical analysis Polish TS-11 aircraft . truncation errors jet aircraft tropospheric radiation errors (EXCLUDES TERRESTRIAL RADIATION) atmospheric radiation TS-11 aircraft truncation errors monoplanes RT ill-conditioned problems . tropospheric radiation . TS-11 aircraft (mathematics) electromagnetic radiation training aircraft precision . tropospheric radiation . TS-11 aircraft RT ∞ radiation RT ∞ aircraft trunks (lines) sky radiation USE transmission lines stratosphere radiation TSR-2 aircraft

trunnions

USE

trusses

GS

RT

shafts (machine elements)

structural members

beams (supports)

. trusses

arches

terrestrial radiation

wave scattering

. . atmospheric scattering

. tropospheric scattering

tropospheric scattering

RT light scattering

GS scattering

BAC TSR 2 aircraft

attack aircraft

BAC aircraft

jet aircraft

monoplanes

TSR-2 aircraft

TSR-2 aircraft

TSR-2 aircraft

|                      | . TSR-2 aircraft  |   | supersonic aircraft  |   | tuberculosis   |
|----------------------|---|---|--|---|--|
|                      | reconnaissance aircraft   |   | . supersonic transports  |   |  |
|                      | . TSR-2 aircraft  |   | supersonic commercial air  | ∞ tubes   |  |
|                      | supersonic aircraft   |   | transport  | SN  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS   |
|                      | . TSR-2 aircraft  |   | TU-144 aircraft  |   | LISTED BELOW)  |
| RT ∘                 | ∞ aircraft  |   | transport aircraft   | RT  | Bourdon tubes  |
| 40                   | i waves   | DT  | . TU-144 aircraft  |   | bronchi  |
|                      |   | KI °  | ∞ aircraft   |   | burettes   |
|                      | A series of waves of extremly long and period typically caused by a sudden  |   |  |   | cannulae   |
|                      | displacement of a large area of the sea   |   | aircraft   |   | capillary tubes  |
|                      | ring an undersa earthquake.   | GS  | commercial aircraft  |   | circular tubes   |
| RT                   | Earth movements   |   | . TU-154 aircraft  |   | ducts  |
| 111                  | earthquake damage   |   | jet aircraft<br>. TU-154 aircraft  |   | electron tubes   |
|                      | earthquakes   |   | transport aircraft   |   | eustachian tubes<br>Hilsch tubes   |
|                      | frontal waves   |   | . TU-154 aircraft  |   | hoses  |
|                      | seismic waves   |   | Tupolev aircraft   |   | linings  |
|                      | shock waves   |   | . TU-154 aircraft  |   | manifolds  |
|                      | surface waves   | RT o  | ∞ aircraft   |   | microwave tubes  |
|                      | tidal waves   |   | cargo aircraft   |   | nanotubes  |
|                      | water waves   |   | passenger aircraft   |   | pipes (tubes)  |
|                      |   |   | TU-104 aircraft  |   | pitot tubes  |
|                      | egrated circuits  |   |  |   | shock tubes  |
| SN                   | (TRANSISTOR-TRANSISTOR-LOGIC  | TU-204  | aircraft   |   | siphons  |
| UF                   | INTEGRATED CIRCUITS) transistor-transistor-logic integ circuits   | (add  | ed September 1994)   |   | trachea  |
| GS                   | circuits  | ĠS  | commercial aircraft  |   | Venturi tubes  |
| 00                   | . integrated circuits   |   | . TU-204 aircraft  |   |  |
|                      | TTL integrated circuits   |   | jet aircraft   | tubing  |  |
| RT                   | electronic packaging  |   | . TU-204 aircraft  | USE   | pipes (tubes)  |
|                      | large scale integration   |   | passenger aircraft   | 4.16.110.   | fullerenes   |
|                      | microminiaturization  |   | . TU-204 aircraft  |   |  |
|                      | molecular electronics   |   | transport aircraft   |   | led September 2001) carbon nanotubes   |
|                      | transistor circuits   |   | . TU-204 aircraft  | USE   | carbon nanotubes   |
|                      |   |   | Tupolev aircraft   | Tully-Fi  | isher relation   |
| TU-104               | aircraft  |   | . TU-204 aircraft  |   | led March 2004)  |
| UF                   | Camel aircraft  | RT •  | ∞ aircraft   |   | A correlation for spiral galaxies be-  |
| GS                   | commercial aircraft   |   |  |   | their luminosity and rotational velocity   |
|                      | . TU-104 aircraft   | tube ar   | odes   |   | n be used to calculate the distance to the   |
|                      | jet aircraft  | GS  | electrodes   |   | or associated galactic cluster.  |
|                      | . TU-104 aircraft   |   | . anodes   | ŘŤ  |  |
|                      | monoplanes  |   | tube anodes  |   | distance   |
|                      | . TU-104 aircraft   | RT  | cathodes   |   | galactic rotation  |
|                      | passenger aircraft  |   | electrode materials  |   | luminosity   |
|                      | TU-104 aircraft   |   | electron guns  |   | spiral galaxies  |
|                      | Tupolev aircraft  |   |  |   |  |
|                      | . TU-104 aircraft   | tube ca   |  |   | ng motion  |
| RT ∘                 | ∘ aircraft  | GS  | electrodes   |   | An attitude situation in which the ve-   |
|                      | TU-154 aircraft   |   | . cathodes   |   | ontinues on its flight, but turns end over   |
| TU 404               | -!#   |   | tube cathodes  |   | out its center of mass.  |
| UF                   | aircraft Cooknat oircraft   |   | cold cathodes  | RI  | attitude stability   |
| GS                   | Cookpot aircraft commercial aircraft  |   | hot cathodes   |   | coning motion  |
| GS                   | . TU-124 aircraft   |   | photocathodes  |   | destabilization  |
|                      | jet aircraft  |   | thermionic cathodes tunnel cathodes  |   | mixers   |
|                      | . TU-124 aircraft   | RT  | cold cathode tubes   | •   | ∞ motion   |
|                      | . TO TET anorale  |   | cold calliode lubes  |   |  |
|                      | mononlanes  |   | oloctron guns  |   | rotating environments  |
|                      | monoplanes<br>. TU-124 aircraft   |   | electron guns  |   | satellite rotation   |
|                      | TU-124 aircraft   |   | electron guns<br>hollow cathodes   | c   | satellite rotation   |
|                      | . TU-124 aircraft passenger aircraft  |   | hollow cathodes  | c   | satellite rotation<br>∞ separation<br>spacecraft motion  |
|                      | . TU-124 aircraft<br>passenger aircraft<br>. TU-124 aircraft  | tube gr   | hollow cathodes  | c   | satellite rotation   |
|                      | . TU-124 aircraft passenger aircraft  |   | hollow cathodes  ids electrodes  |   | satellite rotation<br>∞ separation<br>spacecraft motion<br>spacecraft stability  |
|                      | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft   | <b>tube gr</b><br>GS  | hollow cathodes  ids electrodes . tube grids   | tumor   | satellite rotation<br>∞ separation<br>spacecraft motion  |
|                      | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft   | tube gr   | hollow cathodes  ids electrodes . tube grids bias  | tumor s   | satellite rotation  ∞ separation spacecraft motion spacecraft stability  suppressor genes  |
| RT ∘                 | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft  | <b>tube gr</b><br>GS  | hollow cathodes  ids electrodes . tube grids bias electron guns  | tumor :<br>(add<br>DEF  | satellite rotation  ∞ separation spacecraft motion spacecraft stability  suppressor genes led June 2004)   |
| RT ∘                 | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft  | <b>tube gr</b><br>GS<br>RT  | hollow cathodes  ids electrodes tube grids bias electron guns electron tubes   | <b>tumor</b> :<br>(add<br>DEF<br>tumorig  | satellite rotation  ∞ separation spacecraft motion spacecraft stability  suppressor genes led June 2004) Genes that inhibit expression of the  |
|                      | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft ∘ aircraft turbofan engines  | <b>tube gr</b><br>GS<br>RT  | hollow cathodes  ids electrodes . tube grids bias electron guns  | tumor :<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s  | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- n holding cellular growth in check. When suppressor genes are inactivated or lost,  |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft turbofan engines aircraft  | <b>tube gr</b><br>GS<br>RT  | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes o grids   | tumor :<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s  | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When  |
|                      | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft turbofan engines aircraft commercial aircraft  | tube gr<br>GS<br>RT   | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes  grids ionizers   | tumor :<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul   | satellite rotation  separation  spacecraft motion spacecraft stability  suppressor genes  (ed June 2004)  Genes that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible.  |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft  | tube gr<br>GS<br>RT<br>°<br>tube he   | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes o grids ionizers  eat exchangers  | tumor :<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie  | satellite rotation spacecraft motion spacecraft motion spacecraft stability suppressor genes led June 2004) Genes that inhibit expression of the lenic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and lated growth is possible. genes  |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft vaircraft turbofan engines aircraft commercial aircraft jet aircraft jet aircraft  | tube gr<br>GS<br>RT<br>°<br>tube he   | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  eat exchangers heat exchangers  | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS   | satellite rotation  ⇒ separation  spacecraft motion  spacecraft stability  suppressor genes  led June 2004)  Genes that inhibit expression of the  enic phenotype. They are normally in-  in holding cellular growth in check. When  suppressor genes are inactivated or lost,  er to normal proliferation is removed and  ated growth is possible.  genes  tumor suppressor genes   |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft jet aircraft . turbofan aircraft . turbofan aircraft   | tube gr<br>GS<br>RT<br>°<br>tube he   | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes o grids ionizers  eat exchangers  | tumor :<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul   | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- n holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes tumor suppressor genes cancer   |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft vaircraft aircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft . turbofan aircraft . turbofan aircraft . turbofan aircraft . turbofan aircraft   | tube gr<br>GS<br>RT<br><br>tube he  | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes orids ionizers  eat exchangers heat exchangers . tube heat exchangers   | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS   | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  led June 2004) Genes that inhibit expression of the lenic phenotype. They are normally in- nholding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and ated growth is possible. genes tumor suppressor genes cancer neoplasms   |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft jet aircraft . turbofan aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft . TU-134 aircraft monoplanes   | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT                                      | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes origids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS   | satellite rotation  spacecraft motion spacecraft motion spacecraft stability  suppressor genes led June 2004)  Genes that inhibit expression of the lenic phenotype. They are normally in- inholding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and ated growth is possible. genes .tumor suppressor genes cancer neoplasms tumor suppressor proteins  |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft ⇒ aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft . TU-134 aircraft . TU-134 aircraft monoplanes . TU-134 aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:                          | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes origids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS   | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  led June 2004) Genes that inhibit expression of the lenic phenotype. They are normally in- nholding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and ated growth is possible. genes tumor suppressor genes cancer neoplasms   |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft vaircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft . TU-134 aircraft passenger aircraft passenger aircraft passenger aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF                   | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes orids ionizers  eat exchangers heat exchangers regenerators  sers   | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS   | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft eaircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . turbofan aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF                   | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes egrids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated   | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS<br>RT   | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  ed June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- n holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes _tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins   |
| TU-134               | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft ⇒ aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes orids ionizers  eat exchangers heat exchangers regenerators  sers Stimulated emission devices activated ock tubes.  | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS<br>RT   | satellite rotation spacecraft motion spacecraft motion spacecraft stability suppressor genes led June 2004) Genes that inhibit expression of the lenic phenotype. They are normally in- inholding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes . tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors suppressor proteins led June 2004)  |
| <b>TU-134</b><br>GS  | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft  * aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft Tupolev aircraft . TU-134 aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers   | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS<br>RT   | satellite rotation  ⇒ separation  spacecraft motion  spacecraft stability  suppressor genes  led June 2004)  Genes that inhibit expression of the  enic phenotype. They are normally in-  in holding cellular growth in check. When  suppressor genes are inactivated or lost,  or to normal proliferation is removed and  ated growth is possible.  genes  . tumor suppressor genes  cancer  neoplasms  tumor suppressor proteins  tumors  suppressor proteins  ed June 2004)  Proteins that are normally involved in   |
| <b>TU-134</b><br>GS  | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft ⇒ aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers eat exchangers heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers   | tumor s (add DEF tumor s a barrie unregul GS RT  tumor s  | satellite rotation  ⇒ separation  spacecraft motion  spacecraft stability  suppressor genes  ed June 2004)  Proteins that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes  _tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins  [ed June 2004] Proteins that are normally involved in cellular growth in check. Deficiencies or  |
| <b>TU-134</b><br>GS  | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft  * aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft Tupolev aircraft . TU-134 aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs   | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS<br>RT<br>tumor s<br>(add<br>DEF<br>holding  | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes _tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins  ed June 2004) Proteins that are normally involved in cellular growth in check. Deficiencies or alities in these proteins may lead to   |
| <b>TU-134</b><br>GS  | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft ouircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft pussenger aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft . TU-134 aircraft . TU-134 aircraft . TU-134 aircraft . TU-134 aircraft . TU-134 aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes orids ionizers  eat exchangers heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers  | tumor s<br>(add<br>DEF<br>tumorig<br>volved i<br>tumor s<br>a barrie<br>unregul<br>GS<br>RT<br>tumor s<br>(add<br>DEF<br>holding  | satellite rotation  separation  spacecraft motion spacecraft stability  suppressor genes  led June 2004)  Genes that inhibit expression of the lenic phenotype. They are normally in- inholding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes  . tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins  led June 2004) Proteins that are normally involved in cellular growth in check. Deficiencies or altites in these proteins may lead to ated cell growth and tumor development.  |
| TU-134<br>GS<br>RT • | TU-124 aircraft passenger aircraft TU-124 aircraft transport aircraft Tupolev aircraft Tupolev aircraft aircraft turbofan engines  aircraft commercial aircraft jet aircraft turbofan aircraft turbofan aircraft jet aircraft turbofan aircraft TU-134 aircraft monoplanes TU-134 aircraft passenger aircraft Tupolev aircraft Tupolev aircraft Tupolav aircraft aircraft aircraft aircraft commercial aircraft   | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers shock tubes   | tumor se (add DEF tumoring volved in tumor se a barried unreguled GS RT tumor se (add DEF holding abnormunreguled unreguled unreguled unreguled pubble se (add DEF holding abnormunreguled pubble se | satellite rotation  ⇒ separation spacecraft motion spacecraft stability  suppressor genes  led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes _tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins  ed June 2004) Proteins that are normally involved in cellular growth in check. Deficiencies or alities in these proteins may lead to   |
| TU-134<br>GS<br>RT • | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft oaircraft turbofan engines aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft   | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  at exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers shock tubes waveguide lasers                                 | tumor se (add DEF tumoring volved in tumor se a barried unreguled GS RT tumor se (add DEF holding abnormunreguled unreguled unreguled unreguled pubble se (add DEF holding abnormunreguled pubble se | satellite rotation spacecraft motion spacecraft motion spacecraft stability  suppressor genes led June 2004) Genes that inhibit expression of the enic phenotype. They are normally in- in holding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and ated growth is possible. genes . tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins led June 2004) Proteins that are normally involved in cellular growth in check. Deficiencies or alities in these proteins may lead to ated cell growth and tumor development. biopolymers . proteins  |
| TU-134<br>GS<br>RT • | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft ∘ aircraft ∘ turbofan engines  aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft  aircraft  - TU-134 aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - aircraft  - commercial aircraft . Supersonic commercial air transport   | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho       | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  at exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers shock tubes waveguide lasers                                 | tumor se (add DEF tumoring volved in tumor se a barried unreguled GS RT tumor se (add DEF holding abnormunreguled unreguled unreguled unreguled pubble se (add DEF holding abnormunreguled pubble se | satellite rotation  separation  spacecraft motion  spacecraft stability  suppressor genes  led June 2004)  Genes that inhibit expression of the  enic phenotype. They are normally in-  in holding cellular growth in check. When  suppressor genes are inactivated or lost,  or to normal proliferation is removed and  ated growth is possible.  genes  . tumor suppressor genes  cancer  neoplasms  tumor suppressor proteins  tumors  suppressor proteins  ed June 2004)  Proteins that are normally involved in  cellular growth in check. Deficiencies or  altities in these proteins may lead to  ated cell growth and tumor development.  biopolymers  |
| TU-134<br>GS<br>RT • | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft vaircraft turbofan engines aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft aircraft aircraft - aircraft - aircraft - aircraft - aircraft supersonic commercial air transport . TU-144 aircraft  | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho<br>RT | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes or grids ionizers eat exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers shock tubes waveguide lasers  ulosis                      | tumor se (add DEF tumoring volved in tumor se a barried unreguled GS RT tumor se (add DEF holding abnormunreguled unreguled unreguled unreguled pubble se (add DEF holding abnormunreguled pubble se | satellite rotation  ⇒ separation  spacecraft motion  spacecraft stability  suppressor genes  led June 2004)  They are normally initial holding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and atted growth is possible.  genes  tumor suppressor genes  cancer  neoplasms  tumor suppressor proteins  tumors  suppressor proteins  led June 2004)  Proteins that are normally involved in cellular growth in check. Deficiencies or allities in these proteins may lead to atted cell growth and tumor development. biopolymers  proteins  tumor suppressor proteins  in these proteins may lead to atted cell growth and tumor development. biopolymers  proteins  tumor suppressor proteins  tumor suppressor proteins |
| TU-134<br>GS<br>RT • | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft  Tu-124 aircraft aircraft aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft aircraft aircraft commercial aircraft supersonic commercial air transport . TU-144 aircraft jet aircraft   | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho<br>RT | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes orids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  sers  Stimulated emission devices activated bock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers shock tubes waveguide lasers  ulosis diseases             | tumor se (add DEF tumoring volved in tumor se a barried unreguled GS RT tumor se (add DEF holding abnormunreguled unreguled unreguled unreguled pubble se (add DEF holding abnormunreguled pubble se | satellite rotation  separation  spacecraft motion spacecraft stability  suppressor genes  led June 2004)  Genes that inhibit expression of the enic phenotype. They are normally in- inholding cellular growth in check. When suppressor genes are inactivated or lost, er to normal proliferation is removed and ated growth is possible. genes  . tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins  led June 2004)  Proteins that are normally involved in cellular growth in check. Deficiencies or alities in these proteins may lead to ated cell growth and tumor development. biopolymers . proteins tumor suppressor proteins organic compounds   |
| TU-134<br>GS<br>RT • | . TU-124 aircraft passenger aircraft . TU-124 aircraft transport aircraft . TU-124 aircraft Tupolev aircraft . TU-124 aircraft  - aircraft turbofan engines  aircraft commercial aircraft . TU-134 aircraft jet aircraft . TU-134 aircraft monoplanes . TU-134 aircraft passenger aircraft . TU-134 aircraft Tupolev aircraft . TU-134 aircraft aircraft  - aircraft  - TU-134 aircraft Tupolev aircraft . TU-134 aircraft - Tupolev aircraft . TU-134 aircraft - TU-134 aircraft - TU-144 aircraft - aircraft commercial aircraft . Supersonic commercial air transport . TU-144 aircraft jet aircraft . turbofan aircraft . turbofan aircraft | tube gr<br>GS<br>RT<br>tube he<br>GS<br>RT<br>tube la:<br>DEF<br>with sho<br>RT | hollow cathodes  ids electrodes . tube grids bias electron guns electron tubes grids ionizers  eat exchangers heat exchangers . tube heat exchangers regenerators  sers Stimulated emission devices activated ock tubes. chemical lasers gasdynamic lasers laser outputs pulsed lasers shock tubes waveguide lasers diseases . infectious diseases | tumor se (add DEF tumoring volved in tumor se a barried unreguled GS RT tumor se (add DEF holding abnormunreguled unreguled unreguled unreguled pubble se (add DEF holding abnormunreguled pubble se | satellite rotation spacecraft motion spacecraft motion spacecraft stability  suppressor genes led June 2004) Genes that inhibit expression of the lenic phenotype. They are normally in- inholding cellular growth in check. When suppressor genes are inactivated or lost, or to normal proliferation is removed and ated growth is possible. genes . tumor suppressor genes cancer neoplasms tumor suppressor proteins tumors  suppressor proteins led June 2004) Proteins that are normally involved in cellular growth in check. Deficiencies or alities in these proteins may lead to ated cell growth and tumor development. biopolymers . proteins . tumor suppressor proteins organic compounds . proteins   |

tumor suppressor genes . . tungsten metals . refractory metals tungsten alloys . . tungsten isotopes tumors GS alloys . transition metals . heat resistant alloys GS diseases . . tungsten isotopes . tumors . . refractory metal alloys refractory materials . . neoplasms . tungsten alloys . refractory metals . . . cancer refractory materials . . tungsten isotopes . . . . leukemias . refractory metal alloys . tungsten alloys cysts tungsten oxides occupational diseases hafnium alloys GS chalcogenides tumor suppressor genes Stellite (trademark) . oxides . . metal oxides tumor suppressor proteins tungsten carbides ... tungsten oxides tunable filters GS carbon compounds . . . scheelite (added June 1995) carbides tungsten compounds DEF Filters consisting generally of combi-. . tungsten carbides . tungsten oxides nations of capacitors, inductors, and resistors tungsten compounds . . scheelite that have been selected in such a way as to tungsten carbides present a relative minimum (maximum) impe-Tungusk meteorite dence to one or more specific frequencies. tungsten chlorides UF Tunguska event acousto-optics halogen compounds celestial bodies adaptive filters . chlorine compounds . meteorites charge transfer devices . . chlorides . . stony meteorites crystal filters . . . tungsten chlorides . . Tungusk meteorite electric filters . halides meteorite collisions . . chlorides electro-optics meteorite craters ∞ filters . tungsten chlorides . . metal halides microwave filters Tunguska event optical filters . . . tungsten halides UŠE Tungusk meteorite ... tungsten chlorides radio filters tungsten compounds tuning tunina . tungsten halides tuning GS Schuler tuning tunable lasers . . tungsten chlorides automatic frequency control Stimulated emission devices with selectable frequency output.

GS stimulated emission devices tungsten compounds automatic gain control GS tungsten compounds dye lasers frequency pulling mistuning (turbomachinery) . tungstates . lasers . . calcium tungstates . tunable lasers . . lead tungstates Q factors RT **DBR** lasers diffraction radiation . . zinc tungstates resonance resonant frequencies light modulation . tungsten carbides . tungsten halides optical communication resonators . . tungsten chlorides . . tungsten fluorides tunable filters tuning tunable lasers wiggler magnets . tungsten oxides
. scheelite
RT ∞ chemical compounds tuning fork gyroscopes tundra DEF A treeless, level or gently undulating plain characteristic ofarctic and subarctic regyroscopes GS tuning fork gyroscopes ∞ Group 6B compounds RT gions. It usually has a marshy surface which ∞ metal compounds resonators supports a growth of mosses, lichens, and nu-Tunisia merous low shrubs underlain by a dark, mucky tungsten fluorides GS halogen compounds fluorine compounds GS nations soil and permafrost Tunisia GS land Africa . . fluorides . plains . . . metal fluorides tundra . . tungsten fluorides tunnel cathodes landforms electrodes . halides GS . plains . cathodes tundra . . fluorides . . tube cathodes Arctic regions . . . metal fluorides ... tunnel cathodes cold cathode tubes . . . . tungsten fluorides geography . . metal halides cold cathodes . . . metal fluorides North America . tungsten fluorides electron tubes hollow cathodes tuners . . . tungsten halides tuners .. tungsten fluorides  $\infty$  tunnels waveguide tuners tungsten compounds RT radio receivers . tungsten halides tunnel diodes resonance probes .. tungsten fluorides UF Esaki diodes resonant frequencies GS electronic equipment television receivers tungsten halides . diodes GS halogen compounds . . semiconductor diodes . halides . tunnel diodes tungstates tungsten compounds . . metal halides electron tunneling . tungstates ... tungsten halides junction diodes . . calcium tungstates . . . . tungsten chlorides MIM diodes . . lead tungstates . . tungsten fluorides negative conductance . . zinc tungstates tungsten compounds negative resistance circuits tungsten halides resonant tunneling . . tungsten chlorides tunnel junctions tungsten . . tungsten fluorides wolfram ∞ tunnels GS chemical elements . tungsten tungsten inert gas welding tunnel junctions metals USE gas tungsten arc welding (added September 1993)

tungsten isotopes

chemical elements

. . . tungsten isotopes

. nuclides

. . isotopes

. refractory metals . . tungsten

. transition metals

refractory materials

. refractory metals

. tungsten

An electronic device having an ex-

tremely thin potential barrier to electron flow, so that the transport characteristic (the current-

voltage flow) is primarily governed by the quantum-mechanical tunneling process which

permits electrons to penetrate the barrier.

# tunneling

| RT        | barrier layers                       | principal | component; especially gas turbine en-   | from or  | reaction to a fluid passing across the |
|-----------|--------------------------------------|-----------|---|----------|--|
|           | electron tunneling                   | gines.    |   | vanes. l | Jsed for rotor disks and turborotors.  |
|           | heterojunctions                      | GS        | engines                                 | UF       | rotor disks                            |
|           | Josephson junctions                  |           | . turbine engines                       |          | turborotors                            |
|           | photoconductors                      |           | gas turbine engines                     | GS       | rotating bodies                        |
|           | quantum electronics                  |           | hydrogen engines                        |          | . rotors                               |
|           | semiconductor devices                |           | jet engines                             |          | turbine wheels                         |
|           | semiconductor junctions              |           | T-58 engine                             |          | wheels                                 |
|           | solar cells                          |           | ramjet engines                          |          | . turbine wheels                       |
|           | superconducting devices              |           | integral rocket ramjets                 | RT       | compressor rotors                      |
|           | tunnel diodes                        |           | low volume ramjet engines               |          | engine parts                           |
|           |                                      |           | pulsejet engines                        |          | hydraulic equipment                    |
| tunnel i  | resistors                            |           | supersonic combustion ramjet            |          | impellers                              |
| USE       | electron tunneling                   |           | engines                                 |          | turbines                               |
|           | resistors                            |           | turboramjet engines                     |          | turbomachine blades                    |
|           |                                      |           | turbojet engines                        |          | water wheels                           |
| ∞ tunneli | ng                                   |           | Bristol-Siddeley Olympus 593            |          |  |
| SN        | (USE OF A MORE SPECIFIC TERM IS      |           | engine                                  | turbine  |  |
|           | RECOMMENDEDCONSULT THE TERMS         |           | Bristol-Siddeley Viper engine           | GS       | ,                                      |
| RT        | LISTED BELOW) electron tunneling     |           | ducted fan engines                      |          | . turbines                             |
| IXI       | resonant tunneling                   |           | J-33 engine                             |          | axial flow turbines                    |
|           | tunneling (excavation)               |           | J-34 engine                             |          | gas turbines                           |
|           | turnering (excavation)               |           | J-47 engine                             |          | shrouded turbines                      |
| 4         | na (avaquation)                      |           | J-52 engine                             |          | steam turbines                         |
|           | ng (excavation)                      |           | J-57 engine                             |          | supersonic turbines                    |
| GS        | excavation                           |           | J-58 engine                             |          | two stage turbines                     |
| БТ        | tunneling (excavation)               |           | J-65 engine                             |          | wind turbines                          |
| RT        | bedrock                              |           | J-69-T-25 engine                        |          | tip vanes                              |
|           | construction                         |           | J-71 engine                             | RT       | engines                                |
|           | drainage                             |           | J-73 engine                             |          | geothermal energy conversion           |
|           | drilling                             |           | J-75 engine                             |          | geothermal energy extraction           |
|           | jacks (lifts)                        |           | J-79 engine                             |          | impellers                              |
|           | lining processes                     |           | J-85 engine                             |          | impulse generators                     |
|           | rocks                                |           | J-93 engine                             |          | jet engine fuels                       |
|           | soils                                |           | RA-28 engine                            |          | jet propulsion                         |
| c         | ∘ tunneling                          |           | turbofan engines                        | ~        | o nozzles                              |
|           | underground structures               |           | Bristol-Siddeley BS 53 engine           |          | refractories                           |
|           |                                      |           | CF-700 engine                           |          | rotating generators                    |
| ∞ tunnels | 3                                    |           | convertible fan-shaft engines           |          | rotors                                 |
| SN        | (USE OF A MORE SPECIFIC TERM IS      |           | J-97 engine                             |          | stators                                |
|           | RECOMMENDEDCONSULT THE TERMS         |           | TF-30 engine                            |          | turbine blades                         |
| RT        | LISTED BELOW)                        |           | TF-34 engine                            |          | turbine pumps                          |
| KI        | gaps                                 |           | TF-41 engine                            |          | turbine wheels                         |
|           | hydraulic test tunnels               |           | turboprop engines                       |          | turbogenerators                        |
|           | lunar shelters                       |           | T-34 engine                             |          | turboshafts                            |
|           | passageways                          |           | T-38 engine                             |          | tarboonano                             |
|           | streets                              |           | T-53 engine                             | turbocha | argers                                 |
|           | transfer tunnels                     |           | T-55 engine                             | USE      | superchargers                          |
|           | tunnel cathodes                      |           | T-56 engine                             | OOL      | turbocompressors                       |
|           | tunnel diodes                        |           |   |          | turbocompressors                       |
|           | wind tunnels                         |           | T-63 engine<br>T-64 engine              | turboco  | ompressors                             |
|           |                                      |           | T-74 engine                             | UF       |  |
|           | v aircraft                           |           |   | 0.       | axial flow compressors                 |
| GS        | Tupolev aircraft                     |           | T-76 engine                             |          | multistage compressors                 |
|           | . TU-104 aircraft                    |           | T-78 engine                             |          | turbochargers                          |
|           | . TU-124 aircraft                    | DT        | turboramjet engines                     | GS       | compressors                            |
|           | . TU-134 aircraft                    | RT        | aircraft engines                        | 00       | . turbocompressors                     |
|           | . TU-154 aircraft                    |           | automobile engines                      |          | turbomachinery                         |
|           | . TU-204 aircraft                    |           | convergent nozzles                      |          | . turbocompressors                     |
| RT «      | ∞ aircraft                           |           | gas bearings                            | DT       | centrifugal compressors                |
|           |                                      |           | integral rocket ramjets                 | KI       | centrifugal compressors                |
| turbidit  | у                                    |           | torpedo engines                         |          | compressor blades                      |
|           | electromagnetic properties           |           | . I I                                   |          | •                                      |
|           | . optical properties                 |           | exhaust nozzles                         |          | compressor rotors                      |
|           | turbidity                            | GS        | exhaust nozzles                         |          | rotating stalls                        |
| RT        | absorptance                          |           | turbine exhaust nozzles                 |          | rotors                                 |
|           | clarity                              | RI        | conical nozzles                         |          | superchargers                          |
|           | haze                                 |           | convergent-divergent nozzles            |          | supersonic compressors                 |
|           | light transmission                   |           |   |          | transonic compressors                  |
|           | opacity                              |           | instruments                             |          | turbine pumps                          |
|           | optical density                      |           | flowmeters                              |          | turbofans                              |
|           | optical density                      | ~         | instruments                             |          |  |
|           | solubility                           |           | turbomachinery                          |          | nverters                               |
|           | •                                    |           |   | USE      | turbogenerators                        |
|           | transparence                         | turbine   |   |          |  |
|           | I I a I a                            | UF        |   |          | ectric conversion                      |
|           | blades                               | GS        | pumps                                   | USE      | turbogenerators                        |
|           | The blades of a turbine wheel.       |           | . axial flow pumps                      |          |  |
| GS        | turbomachine blades                  |           | turbine pumps                           |          | n aircraft                             |
|           | turbine blades                       |           | turbomachinery                          | GS       | jet aircraft                           |
| RT «      | ∘ blades                             |           | . turbine pumps                         |          | turbofan aircraft                      |
|           | compressor blades                    | RT        | centrifugal pumps                       |          | A-7 aircraft                           |
|           | engine parts                         |           | fuel pumps                              |          | BAC 111 aircraft                       |
|           | fan blades                           |           | jet pumps                               |          | Boeing 707 aircraft                    |
|           | rotor blades (turbomachinery)        |           | preburners                              |          | Boeing 717 aircraft                    |
|           | rotor stator interactions            |           | turbines                                |          | Boeing 720 aircraft                    |
|           | stator blades                        |           | turbocompressors                        |          | Boeing 727 aircraft                    |
|           | turbines                             |           |   |          | Boeing 733 aircraft                    |
|           |                                      | turbine   | wheels                                  |          | Boeing 737 aircraft                    |
| turhine   | engines                              |           | Multivaned wheels or rotors, especially |          | Boeing 757 aircraft                    |
| DEF       | Engines incorporating a turbine as a |           | urbine engines, rotated by the impulse  |          | . Boeing 767 aircraft                  |
|           | oooo.porating a tarbino ao a         | gas t     | originos, rotatou by the impulse        |          |  |

| C-141 aircraft   | lift fans  | J-97 engine                                      |
|--|--|--|
| CL-600 challenger aircraft   | turbocompressors                                   | TF-30 engine                                     |
| Concorde aircraft  | turbofan engines                                   | TF-34 engine                                     |
| CV-990 aircraft  | turbogenerators                                    | TF-41 engine                                     |
| . DC 8 aircraft  | UF thermal power                                   | turboprop engines                                |
| DH 121 aircraft<br>DO-31 aircraft  | turboconverters                                    | T-34 engine                                      |
| F-5 aircraft   | turboelectric conversion                           | T-38 engine                                      |
| F-28 transport aircraft  | GS electric generators                             | T-53 engine                                      |
| F-111 aircraft   | . rotating generators                              | T-55 engine                                      |
| IL-62 aircraft   | turbogenerators                                    | T-56 engine                                      |
| Mystere 20 aircraft  | ASTEC solar turboelectric                          | T-63 engine                                      |
| P-1127 aircraft  | generator  | T-64 engine                                      |
| P-1154 aircraft  | turbomachinery                                     | T-74 engine<br>T-76 engine                       |
| Saab 37 aircraft   | . turbogenerators                                  | T-76 engine                                      |
| Saab 105 aircraft  | ASTEC solar turboelectric                          | turboramjet engines                              |
| SE-210 aircraft  | generator  | . internal combustion engines                    |
| TU-134 aircraft  | RT AC generators  ∞ conversion                     | gas turbine engines                              |
| TU-144 aircraft  | ∞ electric power                                   | jet engines                                      |
| RT ∞ aircraft<br>C-135 aircraft  | electrical engineering                             | turbojet engines                                 |
| ∞ low wing aircraft  | gas turbine engines                                | Bristol-Siddeley Olympus 593                     |
| passenger aircraft   | gas turbines                                       | engine   |
| transport aircraft   | ∞ generators                                       | Bristol-Siddeley Viper engine                    |
| turboprop aircraft   | geothermal energy conversion                       | ducted fan engines                               |
|  | geothermal energy extraction                       | J-33 engine                                      |
| turbofan engines   | geothermal energy utilization                      | J-34 engine                                      |
| GS engines   | hydroelectric power stations                       | J-47 engine                                      |
| . air breathing engines  | hydroelectricity                                   | J-52 engine                                      |
| gas turbine engines  | SNAP   | J-57 engine                                      |
| jet engines  | SNAP 1   | J-58 engine                                      |
| turbojet engines   | SNAP 2   | J-65 engine<br>J-69-T-25 engine                  |
| turbofan engines   | SNAP 8   | J-71 engine                                      |
| Bristol-Siddeley BS 53 engine  | solar generators                                   | J-73 engine                                      |
| CF-700 engine  | space power reactors                               | J-75 engine                                      |
| convertible fan-shaft engines  | space power unit reactors<br>steam turbines        | J-79 engine                                      |
| J-97 engine  | turbines   | J-85 engine                                      |
| TF-30 engine   | wind turbines                                      | J-93 engine                                      |
| TF-34 engine   | wind turbines                                      | RA-28 engine                                     |
| TF-41 engine   | turbojet aircraft                                  | turbofan engines                                 |
| . internal combustion engines  | USÉ jet aircraft                                   | Bristol-Siddeley BS 53 engine                    |
| gas turbine engines  | •  | CF-700 engine                                    |
| jet engines  | turbojet engine control                            | convertible fan-shaft engines                    |
| turbojet engines<br>turbofan engines   | GS engine control                                  | J-97 engine                                      |
| Bristol-Siddeley BS 53 engine  | turbojet engine control                            | TF-30 engine                                     |
| CF-700 engine  | RT aircraft control                                | TF-34 engine                                     |
| convertible fan-shaft engines  | automatic control                                  | TF-41 engine                                     |
| J-97 engine  | ∞ control  | turboprop engines                                |
| TF-30 engine   | flight control                                     | T-34 engine                                      |
| TF-34 engine   | fuel control remote control                        | T-38 engine<br>T-53 engine                       |
| TF-41 engine   | servocontrol                                       | T-55 engine                                      |
| . turbine engines  | thrust control                                     | T-56 engine                                      |
| gas turbine engines  | unusi control                                      | T-63 engine                                      |
| jet engines  | turbojet engines                                   | T-64 engine                                      |
| turbojet engines   | DEF Jet engines incorporating a turbine            | T-74 engine                                      |
| turbofan engines   | driven air compressor to take in and compress      | T-76 engine                                      |
| Bristol-Siddeley BS 53 engine  | the air for the combustion of fuel (or for heating | T-78 engine                                      |
| CF-700 engine  | by a nuclear reactor), the gases of combustion     | turboramjet engines                              |
| convertible fan-shaft engines  | (or the heated air) being used both to rotate the  | turbine engines                                  |
| J-97 engine  | turbine and create a thrust producing jet.         | gas turbine engines                              |
| TF-30 engine<br>TF-34 engine   | GS engines   | jet engines                                      |
| TF-41 engine   | air breathing engines                              | turbojet engines                                 |
| RT B-52 aircraft   | gas turbine engines                                | Bristol-Siddeley Olympus 593                     |
| Boeing 747 aircraft  | jet engines  | engine   |
| Boeing 767 aircraft  | turbojet engines                                   | Bristol-Siddeley Viper engine ducted fan engines |
| C-5 aircraft   | Bristol-Siddeley Olympus 593 engine                | · · · · · · · · · · · · · · · · · · ·            |
| C-17 aircraft  | Bristol-Siddeley Viper engine                      | J-33 engine<br>J-34 engine                       |
| C-141 aircraft   | ducted fan engines                                 | J-47 engine                                      |
| DC 10 aircraft   | J-33 engine  | J-52 engine                                      |
| ducted fan engines   | J-34 engine  | J-57 engine                                      |
| L-1011 aircraft  | J-47 engine  | J-58 engine                                      |
| Mystere 50 aircraft  | J-52 engine  | J-65 engine                                      |
| P-1127 aircraft  | J-57 engine  | J-69-T-25 engine                                 |
| P-1154 aircraft  | J-58 engine  | J-71 engine                                      |
| TU-124 aircraft  | J-65 engine  | J-73 engine                                      |
| turbofans  | J-69-T-25 engine                                   | J-75 engine                                      |
| turboprop engines  | J-71 engine  | J-79 engine                                      |
|  | J-73 engine  | J-85 engine                                      |
| turbofans  | J-75 engine  | J-93 engine                                      |
| DEF Turbojet engines in which additional   | J-79 engine  | RA-28 engine                                     |
| propulsive thrust is gained by extending a por-  | J-85 engine  | turbofan engines                                 |
| tion of the compressor or turbine blades outside   | J-93 engine  | Bristol-Siddeley BS 53 engine                    |
| the inner engine cases.  | RA-28 engine                                       | CF-700 engine                                    |
| GS turbomachinery . turbofans  | turbofan engines<br>Bristol-Siddeley BS 53 engine  | convertible fan-shaft engines<br>J-97 engine     |
| RT ducted fans   | CF-700 engine                                      | TF-30 engine                                     |
| ∞ fans   | convertible fan-shaft engines                      | TF-34 engine                                     |
| The second secon |  |  |

|         | TE 44                           | 0.400 1 6                     |  |
|---------|---------------------------------|-------------------------------|--|
|         | TF-41 engine                    | C-160 aircraft                | turboramjet engines                                |
|         | turboprop engines               | CL-44 aircraft                | turbojet engines                                   |
|         | T-34 engine                     | CL-84 aircraft                | turboramjet engines                                |
|         | T-38 engine                     | DHC 5 aircraft                | . internal combustion engines                      |
|         | T-53 engine                     | DO-328 aircraft               | gas turbine engines                                |
|         | T-55 engine                     | E-2 aircraft                  | jet engines  |
|         | T-56 engine                     | Electra aircraft              | ramjet engines                                     |
|         | T-63 engine                     | F-27 aircraft                 | turboramjet engines                                |
|         | T-64 engine                     | G-222 aircraft                |  |
|         |                                 |                               | turbojet engines                                   |
|         | T-74 engine                     | HS-748 aircraft               | turboramjet engines                                |
|         | T-76 engine                     | MH-262 aircraft               | turbine engines                                    |
|         | T-78 engine                     | OV-1 aircraft                 | gas turbine engines                                |
|         | turboramjet engines             | OV-10 aircraft                | jet engines  |
| RT      | convergent nozzles              | P-3 aircraft                  | ramjet engines                                     |
|         | Hound Dog missile               | SC-5 aircraft                 | turboramjet engines                                |
|         | jet aircraft                    | Viscount aircraft             | turbojet engines                                   |
|         | Mace missiles                   | YS-11 aircraft                | turboramjet engines                                |
|         | quail missile                   | RT ∞ aircraft                 | RT ∞ hybrid rocket engines                         |
|         | ramjet engines                  | general aviation aircraft     | Ter Hybrid rooket enginee                          |
|         |                                 |                               | turborocket engines                                |
|         | Regulus missile                 | ∞ low wing aircraft           | GS engines   |
| turbom  | achine blodes                   | passenger aircraft            |  |
|         | achine blades                   | ∞ subsonic aircraft           | . rocket engines                                   |
| GS      | turbomachine blades             | transport aircraft            | turborocket engines                                |
|         | . compressor blades             | turbofan aircraft             | . torpedo engines                                  |
|         | . rotor blades (turbomachinery) |                               | turborocket engines                                |
|         | . stator blades                 | turboprop engines             | RT booster rocket engines                          |
|         | . turbine blades                | UF Dart turboprop engines     | hydrazine engines                                  |
| RT      | airfoils                        | GS engines                    | hydrogen oxygen engines                            |
| c       | ∞ blades                        | air breathing engines         | liquid air cycle engines                           |
|         | ∞ buckets                       | gas turbine engines           | restartable rocket engines                         |
|         |                                 | jet engines                   | •  |
|         | cascade flow                    | , ,                           | sustainer rocket engines                           |
|         | fan blades                      | turbojet engines              |  |
|         | impellers                       | turboprop engines             | turborotors  |
|         | mistuning (turbomachinery)      | T-34 engine                   | USE turbine wheels                                 |
|         | paddles                         | T-38 engine                   |  |
|         | rotors                          | T-53 engine                   | turboshafts  |
|         | turbine wheels                  | T-55 engine                   | GS shafts (machine elements)                       |
|         | vanes                           | T-56 engine                   | . rotating shafts                                  |
|         | 74.1100                         | T-63 engine                   | turboshafts  |
| turbom  | achinery                        | T-64 engine                   | RT convertible fan-shaft engines                   |
| GS      | turbomachinery                  |                               | rotors   |
| 00      | centrifugal compressors         | T-74 engine                   | turbines   |
|         |                                 | T-76 engine                   |  |
|         | . centrifugal pumps             | T-78 engine                   | wave rotors  |
|         | . J-33 engine                   | . internal combustion engines | T / 0/ /   |
|         | . turbine pumps                 | gas turbine engines           | Turbo-Skyvan aircraft                              |
|         | . turbines                      | jet engines                   | USE SC-7 aircraft                                  |
|         | axial flow turbines             | turbojet engines              |  |
|         | gas turbines                    | turboprop engines             | turbulence   |
|         | shrouded turbines               | T-34 engine                   | DEF A state of fluid flow in which the instan-     |
|         | steam turbines                  |                               | taneous velocities exhibit irregular and appar-    |
|         |                                 | T-38 engine                   | ently random fluctuations so that in practice only |
|         | supersonic turbines             | <u>T-53</u> engine            | statistical properties can be recognized and       |
|         | two stage turbines              | <u>T</u> -55 engine           |  |
|         | wind turbines                   | T-56 engine                   | subjected to analysis.                             |
|         | tip vanes                       | T-63 engine                   | GS turbulence                                      |
|         | . turbocompressors              | T-64 engine                   | . atmospheric turbulence                           |
|         | . turbofans                     | T-74 engine                   | clear air turbulence                               |
|         | . turbogenerators               | T-76 engine                   | gusts  |
|         | ASTEC solar turboelectric       | T-78 engine                   | low level turbulence                               |
|         | generator                       | . turbine engines             | . homogeneous turbulence                           |
| RT      | blowers                         | gas turbine engines           | . isotropic turbulence                             |
|         | compressors                     |                               | . low turbulence                                   |
|         |                                 | jet engines                   | . magnetohydrodynamic turbulence                   |
| c       | ∞ machinery                     | turbojet engines              | •  |
|         | pumps                           | turboprop engines             | plasma turbulence                                  |
|         | rotating generators             | T-34 engine                   | Langmuir turbulence                                |
|         | rotor dynamics                  | T-38 engine                   | RT aerodynamic drag                                |
|         | superchargers                   | T-53 engine                   | atmospheric effects                                |
|         | turbine instruments             | T-55 engine                   | backwash   |
|         | wave rotors                     | T-56 engine                   | boundary layer control                             |
|         |                                 | T-63 engine                   | boundary layer transition                          |
| turbopa | ause                            | T-64 engine                   | flow characteristics                               |
| GS      | Earth atmosphere                | T-74 engine                   | fluid dynamics                                     |
| 00      | . upper atmosphere              |                               | gas streams  |
|         |                                 | T-76 engine                   | · ·  |
|         | thermosphere                    | T-78 engine                   | micrometeorology                                   |
|         | turbopause                      | RT C-160 aircraft             | mixing   |
| RT      | atmospheric circulation         | contrarotating propellers     | ∞ motion   |
|         | atmospheric physics             | E-2 aircraft                  | nonuniformity                                      |
|         | atmospheric turbulence          | P-3 aircraft                  | panel method (fluid dynamics)                      |
|         |                                 | prop-fan technology           | period doubling                                    |
| turbopi | rop aircraft                    | turbofan engines              | sea roughness                                      |
| GS      | jet aircraft                    |                               | slipstreams  |
| 50      | . turboprop aircraft            | XC-142 aircraft               | steady flow  |
|         | AN-22 aircraft                  | 4 who ne con a                |  |
|         |                                 | turbopumps                    | strange attractors                                 |
|         | AN-24 aircraft                  | USE turbine pumps             | Strouhal number                                    |
|         | Argosy MK-1 aircraft            |                               | surface noise interactions                         |
|         | ATR-72 aircraft                 | turboramjet engines           | turbulent boundary layer                           |
|         | Breguet 941 aircraft            | GS engines                    | turbulent flow                                     |
|         | Breguet 1150 aircraft           | . air breathing engines       | unsteady flow                                      |
|         | C-2 aircraft                    | gas turbine engines           | vertical air currents                              |
|         | C-130 aircraft                  | jet engines                   | vortex filaments                                   |
|         |                                 |                               | vortices   |
|         | C-133 aircraft                  | ramjet engines                |  |

vorticity wakes wind effects

## turbulence effects

aerodynamic stability

buffeting ∞ effects

flutter seeing (astronomy) separated flow

#### turbulence meters

hot-wire turbulence meters measuring instruments turbulence meters RT hot-wire flowmeters

#### turbulence models

(added September 1988)

GS models

. mathematical models

. . turbulence models

. . . Baldwin-Lomax turbulence model

... k-epsilon turbulence model . . k-omega turbulence model

computational fluid dynamics

flow equations

large eddy simulation

magnetohydrodynamic simulation mixing length flow theory

renormalization group methods

Reynolds averaging turbulent boundary layer turbulent combustion turbulent flow

#### turbulent boundary layer

DEF The layer in which the Reynolds stresses are much larger than the viscous stresses. When the Reynolds number is sufficiently high, there is a turbulent layer adjacent to the laminar boundary layer.

#### GS

boundary layers

. turbulent boundary layer

Baldwin-Lomax turbulence model boundary layer transition compressible boundary layer Ekman layer

hypersonic boundary layer incompressible boundary layer k-epsilon turbulence model k-omega turbulence model laminar boundary layer

∞ layers

mixing layers (fluids)

Reynolds stress

riblets

supersonic boundary layers thermal boundary layer

three dimensional boundary layer

turbulence

turbulence models

two dimensional boundary layer

## turbulent combustion

(added September 1992)

DEF Combustion or combustible flow in which turbulence is superimposed on the main movement of the flame fronts resulting in random, unpredictable fluctuations.

combustion

# turbulent combustion

chemical explosions combustible flow combustion physics combustion stability flame propagation flames fuel combustion oxidation premixed flames propellant combustion reacting flow turbulence models turbulent flames

## turbulent diffusion

eddy diffusion

turbulent flow

GS diffusion

## turbulent diffusion

atmospheric diffusion atmospheric turbulence clear air turbulence counterflow

### turbulent flames

(added June 1997)

flames

. turbulent flames

combustible flow flame propagation flame stability premixed flames turbulent combustion turbulent flow

# turbulent flow

Fluid motion in which random motions of parts of the fluid are superimposed upon a simple pattern of flow. All or nearly all fluid flow displays some degree of turbulence. The opposite is laminar flow.

fluid flow GS

### . turbulent flow

. . cavitation flow

. . supercavitating flow

aerodynamic interference

aerodynamics

annular flow

atmospheric turbulence

Baldwin-Lomax turbulence model

Blasius flow

boundary layer transition

closure law combustible flow counterflow critical flow

direct numerical simulation

eddy viscosity flow characteristics flow stability fluid amplifiers free convection gas flow gust alleviators inviscid flow isotropic turbulence

k-epsilon turbulence model

Kolmogorov theory

k-omega turbulence model Lagrange similarity hypothesis laminar flow

large eddy simulation

liquid flow mass flow

mixing length flow theory

multiphase flow nonuniform flow open channel flow orifice flow particle laden jets period doubling

pipe flow

pressure oscillations

reacting flow recirculative fluid flow Reynolds number Reynolds stress rotating fluids single-phase flow steady flow steam flow subcritical flow supercritical flow

Tollmien-Schlichting waves

transition layers turbulence turbulence models turbulent combustion turbulent flames two phase flow uniform flow viscous drag viscous flow

vortex avoidance vortex breakdown vortices

vorticity transport hypothesis

#### turbulent heat transfer

GS transmission

. heat transmission

. . heat transfer

# . . turbulent heat transfer

RT aerodynamic heat transfer convective heat transfer laminar heat transfer thermohydraulics

# turbulent jets

fluid amplifiers jet streams (meteorology) ∞ jets

#### turbulent mixing

GS mixing

. turbulent mixing

agitation laminar mixing mixing layers (fluids)
mixing length flow theory
recirculative fluid flow trapped vortices vortices

#### turbulent wakes

swirling wakes

. turbulent wakes

. . slipstreams

. . propeller slipstreams

aircraft wakes laminar wakes trapped vortices vortex advisory system vortex sheets vortex streets

## **Turing machines**

Mathematical models of devices that change their internal states and read from, write on, and move potentially infinite tapes, all in accordance with their present states, thereby constituting models for computerlike behavior. Invented in the 1930s, they are named after their inventor, A.M. Turing. Used for finite-state machines.

UF finite-state machines RT automata theory cellular automata digital computers ∞ machinery mathematical logic quantum computation self organizing systems

#### Turkey

GS nations Turkey Black Sea Furone Turkish space program

# turkeys

GS animals . vertebrates . . birds . turkeys RT livestock

## Turkish space program

(added August 1990) GS programs . space programs . . European space programs

Turkish space program RT Turkey

| Turkmenistan                                       | TVD schemes                            | muscular function  |
|--|--|--|
| (added August 1993)                                | (added August 1989)                    | muscular function  |
| GS nations   | UF total variation diminishing schemes | two body orbits  |
| . Turkmenistan                                     | GS analysis (mathematics)              | USE two body problem   |
| RT Asia  | numerical analysis                     |  |
|  | approximation                          | two body problem   |
|  | TVD schemes                            | DEF That problem in classical celestial me-                          |
| turnaround (STS)                                   | RT computational fluid dynamics        | chanics which treats of the relative motion of two                   |
| DEF The intervals between flights of the           | essentially non-oscillatory schemes    | point masses under their mutual gravitational                        |
| shuttle orbiters. RT downtime                      | finite difference theory               | attraction. Used for two body orbits.  UF two body orbits            |
| flight time  | finite volume method                   | RT binary stars  |
| launch dates                                       | twenty-four hour orbits                | celestial mechanics  |
| schedules  | GS orbits                              | Earth-Moon system  |
| sequencing   | . Earth orbits                         | Hylleraas coordinates  |
| spacecraft maintenance                             | twenty-four hour orbits                | many body problem  |
| testing time                                       | . spacecraft orbits                    | orbital mechanics  |
|  | satellite orbits                       | orbits   |
| turning flight                                     | twenty-four hour orbits                | perturbation   |
| turning flight UF banking flight                   | RT circular orbits                     | ∞ problems   |
| GS turning flight                                  | equatorial orbits                      | Roche limit<br>three body problem                                    |
| . minor circle turning flight                      | geosynchronous orbits                  | tillee body problem  |
| RT aerodynamic balance                             | orbital mechanics<br>PAS               | two dimensional bodies   |
| aircraft maneuvers                                 | planetary orbits                       | RT ∞ bodies  |
| aircraft stability                                 | polar orbits                           | ∞ cross sections   |
| climbing flight                                    | stationary orbits                      | ducted bodies  |
| ∞ flight   | Synchronous Communications             | mathematical models  |
| flight paths                                       | Satellite Proj                         | ∞ surfaces   |
| horizontal flight                                  | synchronous satellites                 |  |
| lateral oscillation                                |  | two dimensional boundary layer                                       |
| lateral stability                                  | twenty-seven day variation             | GS boundary layers   |
| maneuvers  | GS variations                          | . <b>two dimensional boundary layer</b><br>RT laminar boundary layer |
| momentum<br>roll                                   | . twenty-seven day variation           | RT laminar boundary layer<br>supersonic boundary layers              |
| yaw  | RT solar cycles                        | turbulent boundary layer   |
| yaw  | solar rotation                         | tarbulent boundary layer   |
|  | starspots                              | two dimensional flow   |
| turnstile antennas                                 | sunspots                               | GS fluid flow  |
| DEF Antennas composed of two dipole an-            | tuiliaht alow                          | . two dimensional flow   |
| tennas, normal to each other, with their axes      | twilight glow GS atmospheric radiation | Couette flow   |
| intersecting at their midpoints. Usually, the cur- | . sky radiation                        | Ringleb flow   |
| rents are equal and in phase quadrature.           | airglow                                | RT axial flow  |
| GS antennas  | twilight glow                          | Blasius flow   |
| . omnidirectional antennas                         | electromagnetic radiation              | capillary waves  |
| turnstile antennas                                 | . light (visible radiation)            | coaxial flow   |
| arrays<br>. antenna arrays                         | sky radiation                          | flow geometry<br>Hartmann flow                                       |
| turnstile antennas                                 | airglow                                | one dimensional flow   |
| RT dipole antennas                                 | twilight glow                          | Prandtl-Meyer expansion  |
| ∞ grids  | RT dayglow                             | radial flow  |
| wire grid lenses                                   | night                                  | Rayleigh waves   |
|  | night sky                              | steady flow  |
|  | twinning                               | stream functions (fluids)  |
| turpentine   | twinning<br>GS twinning                | Taylor instability   |
| GS solvents  | . mechanical twinning                  | three dimensional flow   |
| turpentine   | RT crystal defects                     | wall flow  |
| terpenes   | crystal growth                         | wedge flow   |
| . <b>turpentine</b><br>RT paints                   | crystal structure                      | two dimensional into   |
| KT paints  | grain boundaries                       | two dimensional jets<br>RT jet flow                                  |
|  | stacking fault energy                  | jet mixing flow  |
| turret   |  | ∞ jets   |
| SN (USE OF A MORE SPECIFIC TERM IS                 | twisted wings                          | wall flow  |
| RECOMMENDEDCONSULT THE TERMS                       | GS airfoils                            |  |
| LISTED BELOW) RT gun turrets                       | . wings                                | two dimensional models   |
| turret lathes                                      | twisted wings                          | (added August 1988)  |
|  | RT cambered wings                      | GS models  |
|  | fixed wings<br>flexible wings          | two dimensional models   |
| turret lathes                                      | •                                      | RT computerized simulation   |
| GS tools   | ring wings<br>uncambered wings         | mathematical models  |
| . machine tools                                    | uncambered wings                       | three dimensional models   |
| lathes   | twisting                               | two fluid models   |
| turret lathes                                      | UF pretwisting                         | RT Boltzmann distribution  |
| RT ∞ turret  | RT bending                             | liquid helium  |
|  | buckling                               | magnetohydrodynamic flow   |
| turtles  | deformation                            | mixing layers (fluids)   |
| GS animals   | distortion                             | rotating plasmas   |
| . vertebrates                                      | kinking                                | shock wave propagation   |
| reptiles   | structural strain                      | superfluidity  |
| turtles  | torque                                 |  |
|  | torsion                                | two phase flow   |
|  | torsional vibration                    | GS fluid flow  |
| Tutor aircraft                                     | warpage                                | . multiphase flow  |
| USE CL-41 aircraft                                 | winding                                | two phase flow   |
|  | twitching                              | RT gas flow<br>laminar flow  |
| TVC (control)                                      | RT involuntary actions                 | liquid flow  |
| USE thrust vector control                          | muscles                                | particle image velocimetry   |
|  |  | r  |

| ~        | pressure drop                          | eol                                     | ar radio emission                       |          | solar radio bursts                            |
|----------|--|---|---|----------|---|
|          | single-phase flow                      |   | olar radio bursts                       |          | type 4 bursts                                 |
|          | solids flow                            |   | type 2 bursts                           |          | solar radio emission                          |
|          | turbulent flow                         |   | emission                                |          | solar radio bursts                            |
|          |  | rac                                     | lio bursts                              |          | type 4 bursts                                 |
| two pha  | se systems                             |   | olar radio bursts                       |          | emission                                      |
| USE      | binary systems (materials)             |   | type 2 bursts                           |          | . radio emission                              |
|          |  |   | ar radio emission                       |          | radio bursts                                  |
|          | ton coherent states                    | S                                       | olar radio bursts                       |          | solar radio bursts                            |
| USE      | squeezed states (quantum theory)       |   | type 2 bursts                           |          | type 4 bursts                                 |
|          |  | emissio                                 | on                                      |          | solar radio emission                          |
| GS GS    | ector antennas antennas                | . radio                                 | emission                                |          | solar radio bursts                            |
| GS       | . directional antennas                 | radio                                   | o bursts                                |          | type 4 bursts                                 |
|          | . reflector antennas                   |   | ar radio bursts                         |          | extraterrestrial radiation                    |
|          | two reflector antennas                 |   | /pe 2 bursts                            |          | . extraterrestrial radio waves                |
| RT       | Cassegrain antennas                    |   | r radio emission                        |          | radio bursts                                  |
|          | radio antennas                         |   | ar radio bursts                         |          | solar radio bursts                            |
|          | reflectometers                         |   | pe 2 bursts                             |          | type 4 bursts                                 |
|          | reflectors                             |   | rrestrial radiation                     |          | solar radio emission                          |
|          |  |   | errestrial radio waves<br>b bursts      |          | solar radio bursts                            |
| two sta  | ge plasma engines                      |   | ar radio bursts                         |          | type 4 bursts . solar radiation               |
| GS       | engines                                |   | pe 2 bursts                             |          | solar radio emission                          |
|          | . rocket engines                       |   | r radio emission                        |          | solar radio emission                          |
|          | electric rocket engines                |   | ar radio bursts                         |          | type 4 bursts                                 |
|          | plasma engines                         |   | /pe 2 bursts                            |          | typo 4 buroto                                 |
|          | two stage plasma engines               |   | radiation                               | type 5 b | oursts  |
| RT       | electric propulsion                    |   | r radio emission                        | GS       | bursts  |
|          | plasmas (physics)                      | sol                                     | ar radio bursts                         |          | . radio bursts                                |
| turo eta | go turbinos                            |   | pe 2 bursts                             |          | solar radio bursts                            |
|          | ge turbines<br>turbomachinery          | •                                       | •                                       |          | type 5 bursts                                 |
| 63       | . turbines                             | type 3 bursts                           |   |          | electromagnetic radiation                     |
|          | two stage turbines                     | GS bursts                               |   |          | . radio waves                                 |
| RT       | gas turbine engines                    | . radio                                 | bursts                                  |          | extraterrestrial radio waves                  |
|          | gas turbines                           |   | r radio bursts                          |          | radio bursts                                  |
|          | steam turbines                         |   | pe 3 bursts                             |          | solar radio bursts                            |
|          | otodiii tarbiiroo                      | • | magnetic radiation                      |          | type 5 bursts                                 |
| two-wa   | velength lasers                        | . radio                                 |   |          | solar radio emission                          |
| GS       | stimulated emission devices            | extra                                   | aterrestrial radio waves                |          | solar radio bursts                            |
|          | . lasers                               | rac                                     | lio bursts                              |          | type 5 bursts                                 |
|          | two-wavelength lasers                  |   | olar radio bursts                       |          | radio emission radio bursts                   |
| RT       | coherent light                         |   | type 3 bursts                           |          | solar radio bursts                            |
|          | dye lasers                             |   | ar radio emission                       |          | type 5 bursts                                 |
|          | laser outputs                          |   | olar radio bursts                       |          | solar radio emission                          |
|          | masers                                 |   | type 3 bursts                           |          | solar radio bursts                            |
|          | molecular oscillators                  |   | o emission                              |          | type 5 bursts                                 |
|          | quantum amplifiers stimulated emission |   | lio bursts                              |          | emission                                      |
|          | Stiffulated effilssion                 |   | olar radio bursts<br>type 3 bursts      |          | . radio emission                              |
| TX-33-3  | 39 engine                              |   | ar radio emission                       |          | radio bursts                                  |
|          | XM-33 engine                           |   | olar radio bursts                       |          | solar radio bursts                            |
|          | <b>3</b>                               |   | type 3 bursts                           |          | type 5 bursts                                 |
| TX-77 e  | ngine                                  | emissio                                 |   |          | solar radio emission                          |
| GS       | engines                                |   | emission                                |          | solar radio bursts                            |
|          | . rocket engines                       |   | bursts                                  |          | type 5 bursts                                 |
|          | solid propellant rocket engines        | sol                                     | ar radio bursts                         |          | extraterrestrial radiation                    |
| БТ       | TX-77 engine                           | ty                                      | pe 3 bursts                             |          | . extraterrestrial radio waves . radio bursts |
| RT       | Lance missile                          |   | r radio emission                        |          | solar radio bursts                            |
| TX-354   | engine                                 |   | ar radio bursts                         |          | type 5 bursts                                 |
|          | Castor 2 engine                        |   | pe 3 bursts                             |          | solar radio emission                          |
| GS       | engines                                |   | rrestrial radiation                     |          | solar radio bursts                            |
| 00       | . rocket engines                       |   | errestrial radio waves                  |          | type 5 bursts                                 |
|          | solid propellant rocket engines        |   | o bursts                                |          | . solar radiation                             |
|          | TX-354 engine                          |   | ar radio bursts                         |          | solar radio emission                          |
| RT       | booster rocket engines                 |   | <b>/pe 3 bursts</b><br>r radio emission |          | solar radio bursts                            |
|          | Little Joe 2 launch vehicle            |   | ar radio bursts                         |          | type 5 bursts                                 |
|          | RAM B launch vehicle                   |   | /pe 3 bursts                            |          |   |
|          | Scout launch vehicle                   |   | radiation                               | typewrit |   |
|          | sustainer rocket engines               |   | r radio emission                        | GS       | typewriters                                   |
|          | Trailblazer 2 reentry vehicle          |   | ar radio bursts                         |          | . automatic typewriters                       |
|          | XM-33 engine                           |   | pe 3 bursts                             |          | . teletypewriters                             |
| Tycho    | protor                                 | -                                       | •                                       | DT       | teleprinters                                  |
| Tycho o  | craters                                | type 4 bursts                           |   | RT       | printers                                      |
| GS       | . lunar craters                        | GS bursts                               |   | typhoid  |   |
|          | Tycho crater                           | . radio                                 | bursts                                  |          | diseases                                      |
| RT       | meteorite craters                      |   | r radio bursts                          | 00       | . infectious diseases                         |
|          | motoonic oratoro                       |   | e 4 bursts                              |          | bacterial diseases                            |
| type 2 l | oursts                                 |   | magnetic radiation                      |          | typhoid                                       |
| GS       | bursts                                 | . radio                                 |   |          |   |
|          | . radio bursts                         |   | aterrestrial radio waves                | Typhon   | weapon system                                 |
|          | solar radio bursts                     | rac                                     | lio bursts                              |          | weapon systems                                |
|          | type 2 bursts                          |   | olar radio bursts                       |          | . Typhon weapon system                        |
|          | electromagnetic radiation              |   | type 4 bursts                           | RT       | Bumblebee project                             |
|          | radio waves                            |   | ar radio emission                       | ∞        | systems                                       |
|          | extraterrestrial radio waves           |   | olar radio bursts                       |          |   |
|          | radio bursts                           |   | type 4 bursts                           | typhoon  |   |
|          | solar radio bursts                     |   | o emission                              | GS       | storms  |
|          | type 2 bursts                          | rac                                     | lio bursts                              |          | . storms (meteorology)                        |

# typhus

. . cyclones
. . . typhoons
. . tropical storms
. . . typhoons
RT atmospheric circulation hurricanes marine meteorology meteorology storm damage

tornadoes

typhus
GS diseases
infectious diseases
hacterial diseases

. . . typhus

tyrosine GS acids

. amino acids

. . tyrosine

organic compounds
amino acids
tyrosine

RT enzyme activity
liver

| U bends                                | Mars 7 spacecraft                    | GS Sikorsky aircraft                   |
|--|--------------------------------------|--|
| GS pipes (tubes)                       | Mir space station                    | . UH-34 helicopter                     |
| . U bends                              | Molniya satellites                   | transport aircraft                     |
|  |                                      | •                                      |
| RT fittings                            | Proton satellites                    | . UH-34 helicopter                     |
|  | Russian Space Program                | V/STOL aircraft                        |
| U spin space                           | Salyut space station                 | . rotary wing aircraft                 |
| GS algebra                             | Soyuz spacecraft                     | helicopters                            |
| •                                      |                                      |  |
| . vector spaces                        | Vega project                         | military helicopters                   |
| U spin space                           | Venera 8 satellite                   | UH-34 helicopter                       |
| RT matrices (mathematics)              | Venera 10 satellite                  | RT S-58 helicopter                     |
| quantum mechanics                      | Venera 11 satellite                  |  |
| quantum moonamoo                       |                                      | IIII COA haliaantar                    |
| 11.1                                   | Venera 12 satellite                  | UH-60A helicopter                      |
| U tubes                                | Venera satellites                    | UF YUH-60A helicopter                  |
| USE manometers                         |                                      | GS Sikorsky aircraft                   |
|  | UARS (satellite)                     | . UH-60A helicopter                    |
| U-2 aircraft                           |                                      |  |
|  | USE Upper Atmosphere Research        | transport aircraft                     |
| UF ER-2 aircraft                       | Satellite (UARS)                     | . UH-60A helicopter                    |
| Lockheed U-2 aircraft                  |                                      | utility aircraft                       |
| WU-2 aircraft                          | UAS                                  | . UH-60A helicopter                    |
| GS jet aircraft                        |                                      |  |
|  | (added August 2007)                  | V/STOL aircraft                        |
| . U-2 aircraft                         | USE unmanned aircraft systems        | . rotary wing aircraft                 |
| Lockheed aircraft                      |                                      | helicopters                            |
| . U-2 aircraft                         | UBV spectra                          | military helicopters                   |
| monoplanes                             | •                                    |  |
| ·                                      | GS spectra                           | UH-60A helicopter                      |
| U-2 aircraft                           | . radiation spectra                  | RT helicopter design                   |
| reconnaissance aircraft                | electromagnetic spectra              | UH-1 helicopter                        |
| . U-2 aircraft                         | UBV spectra                          | or r noncoptor                         |
|  | •                                    |  |
| research vehicles                      | RT color-color diagram               | UH-61A helicopter                      |
| . research aircraft                    |                                      | UF YUH-61A helicopter                  |
| U-2 aircraft                           | Udimet alloys                        | GS Sikorsky aircraft                   |
|  | •                                    | · · · · · · · · · · · · · · · · ·      |
| utility aircraft                       | GS alloys                            | . UH-61A helicopter                    |
| . U-2 aircraft                         | . heat resistant alloys              | transport aircraft                     |
| RT ∞ aircraft                          | Udimet alloys                        | . UH-61A helicopter                    |
|  |                                      |  |
| 11.40 -:                               | . nickel alloys                      | utility aircraft                       |
| U-10 aircraft                          | Udimet alloys                        | . UH-61A helicopter                    |
| UF Courier aircraft                    |                                      | V/STOL aircraft                        |
| L-28 aircraft                          | UFO                                  |  |
|  |                                      | . rotary wing aircraft                 |
| GS Helio aircraft                      | USE unidentified flying objects      | helicopters                            |
| . U-10 aircraft                        |                                      | military helicopters                   |
| light aircraft                         | Uganda                               | UH-61A helicopter                      |
| . U-10 aircraft                        | _                                    |  |
|  | GS nations                           | RT helicopter design                   |
| monoplanes                             | . Uganda                             | UH-1 helicopter                        |
| . U-10 aircraft                        | RT Africa                            |  |
| passenger aircraft                     |                                      | LUITOTY (mareles more et a marel       |
|  | 1101/ (:- - - -                      | UHTREX (nuclear reactors)              |
| . U-10 aircraft                        | UGV (vehicles)                       | USE high temperature nuclear reactors  |
| utility aircraft                       | (added July 2002)                    |  |
| . U-10 aircraft                        | USE unmanned ground vehicles         | Uhuru satellite                        |
|  | COL unmamica ground vemeros          |  |
| V/STOL aircraft                        | 1111.4.1. 11                         | UF Explorer 42 satellite               |
| . short takeoff aircraft               | UH-1 helicopter                      | GS artificial satellites               |
| U-10 aircraft                          | UF HU-1 helicopter                   | . scientific satellites                |
| RT ∞ aircraft                          | Iroquois helicopter                  |  |
| NT ∞ alliciali                         |                                      | Explorer satellites                    |
|  | RH-2 helicopter                      | Uhuru satellite                        |
| U.S.S.R.                               | YHU-1 helicopter                     | RT galactic radiation                  |
| UF Soviet Union                        | YUH-1 helicopter                     | 3                                      |
|  |                                      | SAS                                    |
| GS nations                             | GS Bell aircraft                     | satellite observation                  |
| . U.S.S.R.                             | . UH-1 helicopter                    | x ray astronomy                        |
| RT Asia                                | utility aircraft                     |  |
| Barents Sea                            | . UH-1 helicopter                    | x ray stars                            |
|  |                                      |  |
| Black Sea                              | V/STOL aircraft                      | UK 4 satellite                         |
| Caucasus Mountains (U.S.S.R.)          | . rotary wing aircraft               | GS artificial satellites               |
| Europe                                 | helicopters                          | . scientific satellites                |
|  |                                      |  |
| Kurile Islands                         | military helicopters                 | UK satellites                          |
| Moscow                                 | UH-1 helicopter                      | UK 4 satellite                         |
| Sea of Okhotsk                         | RT UH-60A helicopter                 |  |
| Siberia                                | UH-61A helicopter                    | UK satellites                          |
| Giboria                                | OTT OTA Helicoptei                   |  |
|  |                                      | UF United Kingdom satellites           |
| U.S.S.R. space program                 | UH-2 helicopter                      | GS artificial satellites               |
| GS programs                            | UF HU2K-1 helicopter                 | . scientific satellites                |
| 1 - 3                                  |                                      |  |
| . space programs                       | Kaman UH-2A helicopter               | UK satellites                          |
| U.S.S.R. space program                 | Seasprite helicopter                 | Ariel 4 satellite                      |
| RT Apollo Soyuz test project           | GS Kaman aircraft                    | Ariel 5 satellite                      |
|  | . UH-2 helicopter                    |  |
| Automatic Universal Orbiting Stations  |                                      | Miranda satellite                      |
| Buran space shuttle                    | utility aircraft                     | UK 4 satellite                         |
| GLONASS                                | UH-2 helicopter                      | RT Infrared Astronomy Satellite        |
| international cooperation              | V/STOL aircraft                      |  |
|  |                                      | Skynet satellites                      |
| international relations                | . rotary wing aircraft               | UK space program                       |
| International Satellite Geodesy        | helicopters                          |  |
| Experiment                             | military helicopters                 | IIK enges program                      |
|  |                                      | UK space program                       |
| lunar retroreflectors                  | UH-2 helicopter                      | GS programs                            |
| Lunik 19 lunar probe                   |                                      | . space programs                       |
|  | UH-12 helicopter                     |  |
| Lunik 22 lunar probe                   |                                      | European space programs                |
| Lunik lunar probes                     | USE OH-23 helicopter                 | UK space program                       |
| Lunokhod lunar roving vehicles         | •                                    | RT HOTOL launch vehicle                |
|  | LIU 12 halicantar                    |  |
| Mars 1 spacecraft                      | UH-13 helicopter                     | UK satellites                          |
| Mars 2 spacecraft                      | USE OH-13 helicopter                 | United Kingdom                         |
| Mars 3 spacecraft                      |                                      | - ·- · · · · · · · · · · · · · · · · · |
| ινιαίο ο ορασσσιαίτ                    |                                      |  |
| Mara 4 C                               | IIII 24 haliaantaa                   | Ulgraina                               |
| Mars 4 Spacecraft                      | UH-34 helicopter                     | Ukraine                                |
| Mars 4 Spacecraft<br>Mars 5 spacecraft | UH-34 helicopter UF HUS-1 helicopter | Ukraine<br>(added August 1993)         |
|  |                                      |  |

|          | . Ukraine                              |          | light aircraft              |          | ultrasonics                             |
|----------|--|----------|-----------------------------|----------|---|
| RT       | Europe                                 |          | man powered aircraft        |          | ula uraskiulu u                         |
|          | Ukrainian space program                | ~        | winged vehicles             |          | nic machining                           |
| 111      |  |          |                             | UF       |   |
|          | an space program                       |          | frequencies                 | GS       | machining                               |
|          | ed January 1999)                       | USE      | extremely low frequencies   | DT       | . ultrasonic machining                  |
| GS       | programs                               |          |                             | RT       | ultrasonics                             |
|          | . space programs                       |          | temperature                 | ultraso  | nic processing                          |
| DT       | Ukrainian space program Ukraine        | USE      | cryogenic temperature       |          | ed June 1998)                           |
| KI       |  |          |                             |          | The use of ultrasonic radiation to syn- |
|          | Zenit launch vehicles                  | ultrapui | re metals                   |          | a compound or material, or alter the    |
| ulcers   |  | GS       | metals                      |          | e, properties, or form of a material.   |
| GS       | diseases                               |          | . ultrapure metals          |          | sonochemistry                           |
| 00       | . ulcers                               | RT       | crystal lattices            | Oi       | ultrasonic treatment                    |
| RT       | cancer                                 |          | impurities                  | DT .     | o processing                            |
| IXI      | Caricer                                |          | purification                | IXI ×    | ultrasonic cleaning                     |
| ullage   |  |          | purity                      |          | ultrasonics                             |
| _        | The amount that a container, such as a |          | single crystals             |          | ditiasornes                             |
|          | k, lacks of being full.                |          | space processing            | ultraso  | nic radiation                           |
|          | fuel tank pressurization               |          | vapor deposition            | UF       | ultrasonic waves                        |
|          | fuel tanks                             |          | zone melting                | GS       | elastic waves                           |
|          | interface stability                    |          |                             |          | . ultrasonic radiation                  |
|          | liquid sloshing                        | ultrash  | ort pulsed lasers           | RT       | acoustic frequencies                    |
|          | propellant tanks                       | GS       | stimulated emission devices |          | coherent acoustic radiation             |
|          | splashing                              |          | . lasers                    |          | magnetoelastic waves                    |
|          | tank geometry                          |          | pulsed lasers               | ۰        | ∘ radiation                             |
|          | ullage rocket engines                  |          | ultrashort pulsed lasers    |          | sound waves                             |
|          |  | RT       | glass lasers                |          | ultrasonics                             |
| ullage ı | rocket engines                         |          | laser applications          |          | underwater acoustics                    |
| GS       | engines                                |          | light amplifiers            |          |   |
|          | . rocket engines                       |          | pulse duration              | ultraso  | nic scanners                            |
|          | ullage rocket engines                  |          | quantum amplifiers          | GS       | scanners                                |
|          | . torpedo engines                      |          | stimulated emission         |          | . ultrasonic scanners                   |
|          | ullage rocket engines                  |          |                             | RT       | acoustics                               |
| RT       | solid propellant rocket engines        | ultrasoı | nic agitation               |          | imaging techniques                      |
|          | ullage                                 | GS       | agitation                   |          | measuring instruments                   |
|          |  |          | ultrasonic agitation        |          | scanning                                |
|          | ght modulation)                        | RT       | ultrasonics                 |          | ultrasonic flaw detection               |
| USE      | ultrasonic light modulation            |          |                             |          | ultrasonics                             |
| ulna     |  | ultrasoı | nic cleaning                |          | ala addadas                             |
|          | anatomy                                | GS       | cleaning                    |          | nic soldering                           |
| GS       | anatomy . musculoskeletal system       |          | . ultrasonic cleaning       | UF       | •                                       |
|          | bones                                  | RT       | acoustics                   | GS       |   |
|          | ulna                                   |          | cavitation flow             | DT       | . ultrasonic soldering                  |
| DT       | arm (anatomy)                          |          | cleaners                    | RT       | brazing                                 |
| IXI      | elbow (anatomy)                        |          | etching                     | ۰        | o joining                               |
|          | elbow (anatomy)                        |          | fluid flow                  |          | ultrasonic welding<br>ultrasonics       |
| ultra sh | ort wave radio equipment               |          | grinding machines           |          | uitiasonics                             |
|          | very high frequency radio              |          | machine tools               | ultraso  | nic spectroscopy                        |
|          | equipment                              |          | piezoelectric transducers   | GS       | spectroscopy                            |
|          |  |          | polishing                   |          | . ultrasonic spectroscopy               |
| ultracap |  |          | tools                       | RT       | cracks                                  |
|          | ed September 2003)                     |          | transducers                 |          | nondestructive tests                    |
| USE      | electrochemical capacitors             |          | ultrasonic processing       |          | spectrum analysis                       |
|          |  |          | ultrasonics                 |          |   |
|          | h frequencies                          |          |                             |          | nic tests                               |
|          | (300 TO 3000 MHZ)                      |          | nic densimeters             | RT       | acoustic measurement                    |
| UF       | L band<br>S band                       | DEF      | 3                           |          | acoustic sounding                       |
| GS       |  |          | sonic devices (sensors).    |          | dynamic modulus of elasticity           |
| GS       | frequencies . radio frequencies        | GS       | 3                           |          | Lamb waves                              |
|          | . ultrahigh frequencies                |          | . densimeters               | ۰        | o materials tests                       |
|          | P band                                 |          | ultrasonic densimeters      |          | nondestructive tests                    |
| RT       | decimeter waves                        | RT       | density (mass/volume)       |          | SH waves                                |
|          | EISCAT radar system (Europe)           |          | density measurement         | ۰        | • tests                                 |
|          | Fleet Satellite Communication System   |          | instruments                 |          | ultrasonics                             |
|          | low frequencies                        | ~        | measurement                 |          | in transfer out                         |
|          | passive L-band radiometers             |          |                             |          | nic treatment                           |
|          | praetersonic devices                   |          | nic flaw detection          |          | ed June 1998)<br>ultrasonic processing  |
|          | unified S band                         | GS       | detection                   | USE      | ultrasonic processing                   |
|          | very high frequency radio equipment    |          | ultrasonic flaw detection   | ultraso  | nic wave transducers                    |
|          | ,g q, qp                               | RT       | 0 0                         |          | transducers                             |
| ultrahic | ıh vacuum                              | ~        | detectors                   | 00       | . ultrasonic wave transducers           |
|          | pressure                               |          | examination                 | RT       | electroacoustics                        |
|          | . vacuum                               |          | identifying                 |          | electronic transducers                  |
|          | ultrahigh vacuum                       |          | inspection                  |          | microphones                             |
| RT       | high vacuum                            |          | nondestructive tests        |          | piezoelectric actuators                 |
|          | low density research                   |          | quality control             |          | piezoelectric motors                    |
|          | residual gas                           |          | ultrasonic scanners         |          | pressure sensors                        |
|          | vacuum apparatus                       |          |                             |          | sonar                                   |
|          | vacuum tests                           |          | ic grinding machines        |          | surface acoustic wave devices           |
|          |  | USE      | ultrasonic machining        |          | ultrasonics                             |
|          | ht aircraft                            |          |                             |          | underwater acoustics                    |
|          | An aircraft for one person weighing    |          | nic light modulation        |          |   |
|          | an 254 pounds with a top speed of 55   | UF       | ULM (light modulation)      | ultrasor | nic waves                               |
|          | and a maximum stalling speed of 24     | GS       | modulation                  | USE      | ultrasonic radiation                    |
| knots.   |  |          | . light modulation          | _        |   |
| RT 。     | ∞ aircraft                             |          | ultrasonic light modulation |          | nic welding                             |
|          | hang gliders                           | RT       | Bragg cells                 | GS       | welding                                 |

. pressure welding ultraviolet telescopes . ultrasonic welding ultraviolet lasers spot welds ultrasonic soldering UV lasers GS stimulated emission devices ultrasonics . lasers . . gas lasers ultrasonics DEF The technology of sound at frequen-... ultraviolet lasers . . pulsed lasers cies above the audio frequency range. acoustics . ultraviolet lasers electroacoustics coherent light ultrasonic agitation laser outputs ultrasonic cleaning light amplifiers ultrasonic light modulation light transmission ultrasonic machining masers ultrasonic processing molecular oscillators ultrasonic radiation nitrogen lasers ultrasonic scanners quantum amplifiers ultrasonic soldering stimulated emission ultrasonic tests xenon chloride lasers ultrasonic wave transducers ultrasonic welding ultraviolet light USE ultraviolet radiation ultraviolet absorption ultraviolet lithography GS energy absorption . radiation absorption USE lithography . . electromagnetic absorption . . ultraviolet absorption ultraviolet microscopy microscopy RT ∞ absorption ultraviolet detectors ultraviolet microscopy microscopes ultraviolet astronomy DEF Use of special optical instruments for ultraviolet photography the observation of astronomical phenomena in imagery . photography the ultraviolet spectrum. astronomy . ultraviolet photography GS . ultraviolet astronomy . ultraviolet imagery . ultraviolet photography electromagnetic radiation Extreme Ultraviolet Explorer satellite aerial photography Hubble Space Telescope Lyman alpha radiation color photography Lyman beta radiation
Spartan satellites faint object camera infrared photography radar photography Starsat telescope telescopes ultraviolet photometry ultraviolet telescopes imagery . photography ultraviolet detectors . ultraviolet photometry GS measuring instruments optical measurement . radiation measuring instruments . photometry . . actinometers . ultraviolet photometry . . . ultraviolet detectors black and white photography . . . . ultraviolet spectrometers ultraviolet imagery . . . . high dispersion spectrographs . . . . Total Ozone Mapping ultraviolet radiation Spectrometer DEF Electromagnetic radiation of shorter wavelength than visible radiation; roughly, radia-. . . ultraviolet spectrophotometers RT ∞ detectors wavelength than visible radiation, roughly, radiation in the wavelength interval from 100 to 4000 angstroms. Used for ultraviolet light.

UF ultraviolet light photometers radiometers ultraviolet absorption electromagnetic radiation ultraviolet radiation GS . ultraviolet radiation ultraviolet spectra . . extreme ultraviolet radiation x ray detectors . . far ultraviolet radiation . . . Lyman alpha radiation ultraviolet emission (added August 1991) ... Lyman beta radiation electromagnetic radiation . . near ultraviolet radiation . ultraviolet radiation . ultraviolet emission . . ultraviolet emission beams (radiation) black body radiation emission

Cerenkov radiation

coherent electromagnetic radiation

coronal holes dayglow IUÉ

. ultraviolet emission

electromagnetic wave filters

. ultraviolet filters

ultraviolet imagery

RT ultraviolet photometry

. ultraviolet photography

emission spectra

spectral emission

ultraviolet spectra

. optical filters

bandpass filters

electric filters

infrared filters

(added January 1997)

imagery

ultraviolet filters

ultraviolet imagery

microchannels

monochromatic radiation

polarized electromagnetic radiation

radiation Seyfert galaxies solar radiation

sterilization sunlight

thermal radiation ultraviolet detectors Umkehr effect

ultraviolet reflection

GS reflection

. ultraviolet reflection

infrared reflection radio echoes reflectometers spread reflection

### ultraviolet spectra

spectra

. radiation spectra

. . electromagnetic spectra .. ultraviolet spectra

absorption spectra

emission spectra Herzberg bands

high dispersion spectrographs light (visible radiation)

line spectra Lyman spectra molecular spectra radio spectroscopy solar spectra

stellar spectra ultraviolet detectors ultraviolet emission

ultraviolet spectrographs

USE ultraviolet spectrometers

#### ultraviolet spectrometers

ultraviolet spectrographs measuring instruments

. optical measuring instruments

. . photometers

... ultraviolet spectrometers

.... high dispersion spectrographs .... Total Ozone Mapping Spectrometer

. radiation measuring instruments

. . actinometers

. . . ultraviolet detectors

.... ultraviolet spectrometers . . . . high dispersion spectrographs

. . . . Total Ozone Mapping Spectrometer

. . photometers

. . . ultraviolet spectrometers

.... high dispersion spectrographs

. . . . Total Ozone Mapping Spectrometer

. spectrometers

.. ultraviolet spectrometers

. . . high dispersion spectrographs

... Total Ozone Mapping Spectrometer

optical equipment . optical measuring instruments

. . photometers

... ultraviolet spectrometers

. . . high dispersion spectrographs . . . Total Ozone Mapping

Spectrometer

Ebert spectrometers Solar Maximum Mission solar spectrometers

## ultraviolet spectrophotometers

GS measuring instruments

. optical measuring instruments

. . photometers

... ultraviolet spectrophotometers

. . spectrophotometers

. ultraviolet spectrophotometers

. radiation measuring instruments . . actinometers

... spectrophotometers

.... ultraviolet

spectrophotometers

. . . ultraviolet detectors

.... ultraviolet

spectrophotometers

. . photometers

. ultraviolet spectrophotometers

optical equipment . optical measuring instruments

. . photometers

... ultraviolet spectrophotometers

. . spectrophotometers

... ultraviolet spectrophotometers

#### ultraviolet spectroscopy

spectroscopy GS

. ultraviolet spectroscopy

absorption spectroscopy astronomical spectroscopy molecular spectroscopy optogalvanic spectroscopy radio spectroscopy spectroscopic analysis spectrum analysis vacuum spectroscopy x ray spectroscopy

# ultraviolet telescopes

DEF Optical telescopes designed to collect ultraviolet light (wavelengths not capable of passing through Earth's atmosphere) and as such must be used in space.

telescopes

#### ultraviolet telescopes

. Starlab

far ultraviolet radiation spaceborne astronomy Swift observatory ultraviolet astronomy ultraviolet imagery x ray astronomy

#### Ulysses mission

DEF A proposed ESA/NASA mission using the STS for orbital launching of two spin-stabilized spacecraft equipped with instruments for solar and astrophysical observations. Used for International Solar Polar Mission.

International Solar Polar Mission space missions

GS

. Ulysses mission Inertial Upper Stage mission planning

∞ missions

Solar Maximum Mission solar probes

sun

## umbilical connectors

connectors GS

umbilical connectors

bundles extravehicular activity tetherlines

#### umbilical towers

GS towers

umbilical towers

gantry cranes launching pads

DEF The darkest parts of shadows in which light is completely cut off by intervening objects. Lighter parts surrounding the umbras, in which the light is only partly cut off, are called penumbras. The darker central portions of sun spots, surrounded by lighter penumbra.

RT eclipses penumbras

#### Umbriel

DEF A satellite of Uranus orbiting at a mean distance of 267,000 kilometers.

GS celestial bodies

. natural satellites

. . Uranus satellites

. Umbriel

RT Uranus (planet)

#### Umkehr effect

DEF Due to the presence of the ozone layer, an anomaly of the relative zenith intensities of scattered sunlight at certain wavelengths in the ultraviolet as the sun approaches the horizon.

RT ∞ effects light scattering ozonosphere sunlight

ultraviolet radiation

## **Umklapp process**

electron scattering phonon beams phonons

photon-electron interaction

∞ processes

#### uncambered wings

GS airfoils

. wings

### ... uncambered wings

. . ring wings cambered wings fixed wings thin wings twisted wings

### uncertain systems

(added June 2000)

control systems design control theory fuzzy systems linear systems nonlinear systems probability theory ∞ systems

#### unconsciousness

## GS unconsciousness

. blackout (physiology) . . blackout prevention

. narcosis

anesthesia ∞ coma syncope

## uncontrolled reentry (spacecraft)

The descent into a denser atmosphere of a spacecraft in an elliptical orbit due to aerodynamic drag and other perturbation forces. The gradually increasing deceleration causes some kinetic energy to be converted into atmospheric heat. The centrifugal force decreases and gravity pulls the spacecraft further into the atmosphere. The spacecraft eventually burns.

atmospheric entry GS

. reentry

. . hypersonic reentry

... uncontrolled reentry

(spacecraft)
... spacecraft reentry
... uncontrolled reentry

(spacecraft)

aerodynamic heating Cosmos 954 satellite descent

flight paths plasma sheaths spacecraft breakup spacecraft survivability

### uncoupled modes

Modes of vibration that can exist in systems concurrently with and independently of other modes.

GS modes

vibration mode

. uncoupled modes

coupled modes couples

modes (standing waves)

# undamped oscillations

oscillations

undamped oscillations

airfoil oscillations flapping flutter resonant vibration stable oscillations wing oscillations

# under surface blowing

DEF Use of jets blowing on the underside of airfoils for variations in pressure distribution.

blowing GS

under surface blowing

RT aerodynamic characteristics aircraft configurations circulation control airfoils

∞ surfaces

upper surface blowing

## undercarriages

undercooling

GS frames

undercarriages

carriages carts chassis dollies landing gear substructures

suspension systems (vehicles)

(added May 1999) supercooling

# underground acoustics

DEF The sounding of subsoils, rocks, etc., for mineralogy and other exploratory purposes. RT acoustic sounding exploration

minerals strata

## underground communication

communicating

underground communication

radio communication

# underground explosions

explosions

. underground explosions

chemical explosions gas explosions mines (excavations) nuclear explosions seismic waves thermonuclear explosions

underground radio antenna grid (navy)

USE Seafarer project

# underground storage

RT decommissioning mines (excavations) missile storage propellant storage ∞ storage storage tanks waste management

## underground structures

Subterranean construction of tunnels, passageways, chambers, or excavations.

RT caves excavation foundations mines (excavations) mining passageways tunneling (excavation)

## underground transmission lines

transmission lines

. underground transmission lines

circuits electric power transmission

# power lines

underwater acoustics hydroacoustics underwater sound acoustics

sonar

# . underwater acoustics

acoustic scattering coherent acoustic radiation deep scattering layers echo sounding elastic waves flow noise LOFAR noise (sound) shock waves

sonobuoys sound fixing and ranging sound transducers thermoclines ultrasonic radiation ultrasonic wave transducers

### underwater breathing apparatus

breathing apparatus

underwater breathing apparatus

argon-oxygen atmospheres bioengineering helium-oxygen atmospheres life support systems

### underwater communication

GS telecommunication

. communication

. underwater communication

Seafarer project shock waves sonar sonobuoys sound transducers

### underwater engineering

RT breakwaters ∞ engineering submerged bodies

### underwater explosions

explosions GS

. underwater explosions

antisubmarine warfare chemical explosions hydroballistics nuclear explosions thermonuclear explosions

### underwater optics

RT diffraction patterns diffraction propagation geometrical optics opacity optical density optical paths ∞ optics refractivity

### underwater photography

imagery GS

. photography

. underwater photography

cameras color photography sea water seas submerged bodies

underwater physiology
 DEF The study of the bodily responses to
the environmental stresses of the underwater milieu such as pressure, temperature and immersion effects.

physiology GS

underwater physiology

diving (underwater)

∞ science

stress (physiology)

## underwater propulsion

GS propulsion

. marine propulsion

underwater propulsion . submarine propulsion

aeroquatic vehicles chemical propulsion electric propulsion nuclear propulsion propeller drive torpedo engines

#### underwater research laboratories

laboratories

- underwater research laboratories research vehicles
- . underwater research laboratories
- submerged bodies
- . underwater research laboratories water vehicles

. underwater vehicles . . underwater research

laboratories

RT bathymeters ocean data acquisitions systems oceanography

#### underwater resources

DEF Earth resources (minerals, petroleum, etc.) within or under the oceans.

GS resources

. Earth resources

. . underwater resources

crude oil dredging fossil fuels geothermal resources marine resources mineral deposits ocean bottom oceanography oil exploration

underwater sound

USE underwater acoustics

water resources

sea water

#### underwater structures

breakwaters structural design submerged bodies

#### underwater tests

GS environmental tests . underwater tests

. . neutral buoyancy simulation

corrosion tests diving (underwater) water immersion

#### underwater to surface missiles

missiles

. underwater to surface missiles

. . Subroc missile RT ∞ surfaces

# underwater trajectories

GS trajectories

. underwater trajectories

antisubmarine warfare hydroballistics missile trajectories Subroc missile torpedoes

#### underwater vehicles

water vehicles

. underwater vehicles

. . submarines . . . ballistic missile submarines

. . . guided missile submarines

. . . trident submarine

. underwater research laboratories

aeroquatic vehicles boats

∞ military vehicles

research vehicles ships

submerged bodies surface vehicles

 $\infty$  vehicles

uniaxial strain USE axial strain

# unidentified flying objects

UF UFO

RT ∞ aircraft

extraterrestrial intelligence

∞ spacecraft

∞ vehicles

## unified field theory

DEF Any theory which attempts to express gravitational theory and electromagnetic theory within a single unified framework; usually, an attempt to generalize Einstein's general theory of gravitation alone to a theory of gravitation and classical electromagnetism.

GS field theory (physics)

. gauge theory

. . unified field theory

. . . electroweak model . . standard model (particle physics)

electromagnetic fields electromagnetic interactions electromagnetism gravitation theory

gravitational fields particle theory plasma physics relativity string theory supergravity supersymmetry theoretical physics

#### unified S band

RT Apollo spacecraft carrier frequencies circumlunar communication communication equipment differential pulse code modulation manned space flight network pulse code modulation satellite communication spacecraft communication spacecraft tracking superhigh frequencies ultrahigh frequencies

uniform flow GS fluid flow

. uniform flow . Blasius flow

aerodynamics

gas flow heat transmission laminar flow liquid flow mass flow multiphase flow nonuniform flow pipe flow pressure gradients quasi-steady states single-phase flow solids flow steady flow steam flow

# unimolecular structures

RT molecular structure ∞ structures

subcritical flow

turbulent flow

unsteady flow

## unionization

RT federations organizing personnel ∞ unions

#### ∞ unions

(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) Boolean algebra unionization unions (connectors)

### unions (connectors)

connectors GS . unions (connectors) couplings

fasteners fittings joints (junctions) linkages ∞ unions

# uniphase flow

USE single-phase flow

unipolar transistors

USE field effect transistors

#### uniqueness

RT abnormalities

ill-conditioned problems . . Oregon . . Univac computers (mathematics) Pennsylvania . . Univac 490 computer ill-posed problems (mathematics) Puerto Rico Univac 494 computer singularity (mathematics) Rhode Island . . South Carolina GS data processing equipment uniqueness theorem South Dakota . computers theorems . . Tennessee . . digital computers uniqueness theorem . . texas Univac 494 computer algebra . . Utah . . Univac computers complex variables . . . Univac 494 computer . . Vermont . . Virgin Islands geometry Univac 1100 series computers number theory Virginia probability theory . . Washington GS data processing equipment real variables West Virginia . computers . . Wisconsin . . analog computers **United Arab Emirates** . Wyoming Univac 1100 series computers Aleutian Islands (US) nations . . . . Univac 1105 computer . United Arab Emirates Cascade Range (CA-OR-WA) . . . . Univac 1106 computer Central Atlantic Region (US) . . . . Univac 1107 computer **United Kingdom** Great Lakes (North America)
Great Plains Corridor (North America) . . . . Univac 1108 computer Great Britain . . . . Univac 1110 computer GS nations International Field Year for Great . . digital computers Lakes International Hydrological Decade . United Kingdom ... Univac 1100 series computers England Univac 1105 computer Gibraltar . . . . Univac 1106 computer Missouri River (US) Northern Ireland Univac 1107 computer New England (US) Scotland . . . . Univac 1108 computer North America Univac 1110 computer Pacific Northwest (US) English Channel . . Univac computers Panama Canal Zone Europe Univac 1100 series computers Rocky Mountains (North America) UK space program . . . . Univac 1105 computer Southern California Univac 1106 computer United Kingdom satellites . . . . Univac 1107 computer units of measurement USE **UK satellites** . . . Univac 1108 computer Precisely stated quantities in terms of . . . . Univac 1110 computer which the magnitudes of other quantities of the **United Nations** same kind can be stated. f shichrms of which the communities Univac 1105 computer magnitude of other Precisely specified quanti-GS data processing equipment developing nations European Union computers GS units of measurement federations . International System of Units . . analog computers international cooperation ... Univac 1100 series computers conversion tables international law . Univac 1105 computer dimensional analysis nations dimensions . . digital computers organizations ... Univac 1100 series computers measurement politics . Univac 1105 computer metrication sea law metrology . . Univac computers World Meteorological Organization ... Univac 1100 series computers month parameterization . . . . Univac 1105 computer **United States** sidereal time USA (United States) Univac 1106 computer symbols nations GS data processing equipment time . United States computers . . Alabama unity . . analog computers Alaska . . . Univac 1100 series computers homogeneity . . Arizona . Univac 1106 computer stability Arkansas . . digital computers California Unity connecting module ... Univac 1100 series computers Colorado Univac 1106 computer (added November 1998) Connecticut . . Univac computers DEF Component of the International Space Delaware Station providing six ports that serve as con-... Univac 1100 series computers District of Columbia necting points for other station modules and .... Univac 1106 computer Florida framework elements. Georgia Univac 1107 computer GS modules Guam GS data processing equipment . space station modules Hawai Unity connecting module . computers Idaho Integrated Truss Structure Z1 . . analog computers Illinois International Space Station ... Univac 1100 series computers Indiana . . . . Univac 1107 computer spacecraft docking Iowa . . digital computers Kansas Univac 80 computer ... Univac 1100 series computers Kentucky . Univac 1107 computer GS data processing equipment Louisiana . computers . . Univac computers Maine ... Univac 1100 series computers . . digital computers Maryland ... Univac 80 computer . . . . Univac 1107 computer Massachusetts . . Univac computers Michigan ... Univac 80 computer Univac 1108 computer Minnesota GS data processing equipment . . Mississippi Univac 418 computer . computers Missouri . GS data processing equipment . . analog computers ... Univac 1100 series computers . . Montana . computers Univac 1108 computer Nebraska . . digital computers ... Univac 418 computer . . Nevada . . digital computers . . . Univac 1100 series computers New Hampshire . . Univac computers Univac 1108 computer New Jersey . . . Univac 418 computer New Mexico . . Univac computers New York Univac 490 computer ... Univac 1100 series computers GS data processing equipment North Carolina . . . . Univac 1108 computer . . North Dakota . computers

. . digital computers

... Univac 490 computer

Univac 1110 computer

GS data processing equipment

.. Ohio .. Oklahoma

| . computers  | RT computer programming  | Ranger lunar probes                              |
|--|--|--|
| analog computers                                   | software engineering   | Ranger 1 lunar probe                             |
| Univac 1100 series computers                       | workstations   | Ranger 2 lunar probe                             |
| Univac 1110 computer                               |  | Ranger 3 lunar probe                             |
| digital computers                                  | unloading  | Ranger 4 lunar probe                             |
| Univac 1100 series computers                       | RT ∞ discharge   | Ranger 5 lunar probe                             |
| Univac 1110 computer                               | disposal   | Ranger 6 lunar probe                             |
| Univac computers                                   | dumping  | Ranger 7 lunar probe                             |
| Univac 1100 series computers                       | ejection   | Ranger 8 lunar probe                             |
| Univac 1110 computer                               | emptying<br>evacuating (transportation)  | Ranger 9 lunar probe                             |
| Univac 1230 computer                               | expulsion  | Ranger lunar landing vehicles                    |
| GS data processing equipment                       | loading operations   | Surveyor lunar probes                            |
| . computers  | materials handling   | Surveyor 1 lunar probe                           |
| digital computers                                  | releasing  | Surveyor 2 lunar probe                           |
| Univac 1230 computer                               | removal  | Surveyor 3 lunar probe                           |
| Univac computers                                   | spreading  | Surveyor 4 lunar probe                           |
| Univac 1230 computer                               | Jan Parameter  | Surveyor 5 lunar probe<br>Surveyor 6 lunar probe |
| Universementers                                    | unloading waves GS elastic waves   | Surveyor 7 lunar probe                           |
| Univac computers  GS data processing equipment     | GS elastic waves . unloading waves   | Mariner space probes                             |
| . computers  | . unloading waves  | Mariner 1 space probe                            |
| Univac computers                                   | unmanned aerial vehicles   | Mariner 2 space probe                            |
| Univac 1100 series computers                       | USE pilotless aircraft   | Mariner 3 space probe                            |
| Univac 1105 computer                               | ·  | Mariner 4 space probe                            |
| Univac 1106 computer                               | unmanned aircraft systems  | Mariner 5 space probe                            |
| Univac 1107 computer                               | (added August 2007)  | Mariner 6 space probe                            |
| Univac 1108 computer                               | DEF Pilotless flight systems consisting of an  | Mariner 7 space probe                            |
| Univac 1110 computer                               | unmanned aircraft, sensors, payloads, commu-   | Mariner 8 space probe Mariner 9 space probe      |
| Univac 80 computer                                 | nications equipment carried on board the air-  | Mariner 10 space probe                           |
| Univac 418 computer Univac 490 computer            | craft, and ground control stations that control the flight of the aircraft and receive information | Mariner 11 space probe                           |
| Univac 490 computer                                | collected and transmitted by the payloads.   | Mariner R 2 space probe                          |
| Univac 1230 computer                               | UF UAS   | Mariner spacecraft                               |
| Univac Larc computer                               | RT aerial reconnaissance   | Mariner C spacecraft                             |
| RT digital computers                               | ∞ military aircraft  | Mariner Venus 67 spacecraft                      |
|  | pilotless aircraft   | Mars probes                                      |
| Univac Larc computer                               | reconnaissance aircraft  | Advanced Reconn Electric                         |
| GS data processing equipment                       | remotely piloted vehicles  | Spacecraft                                       |
| . computers  | ∞ systems  | Mariner 3 space probe<br>Mariner 4 space probe   |
| . digital computers                                | unmanned ground vehicles   | Mariner 4 space probe                            |
| Univac Larc computer Univac computers              | (added July 2002)  | Mariner 7 space probe                            |
| Univac computer                                    | DEF Ground vehicles using remote or au-  | Mariner 8 space probe                            |
| Oliivao Earo oompatoi                              | tonomous control.  | Mariner 9 space probe                            |
| universal time                                     | UF UGV (vehicles)  | Mars 1 spacecraft                                |
| DEF Time defined by the rotational motion          | GS surface vehicles  | Mars 2 spacecraft                                |
| of the Earth and determined from the apparent      | . unmanned ground vehicles   | Mars 3 spacecraft                                |
| diurnal motions which reflect this rotation; be-   | RT autonomous navigation   | Mars 4 Spacecraft                                |
| cause of variations in the rate of rotation, uni-  | remotely piloted vehicles  | Mars 5 spacecraft                                |
| versal time is not rigorously uniform. Also called | robot control  | Mars 6 spacecraft<br>Mars 7 spacecraft           |
| Greenwich mean time. GS time                       | robotics<br>roving vehicles  | Mars Observer                                    |
| . universal time                                   | surface navigation   | Mars Pathfinder                                  |
| RT ephemeris time                                  | ounded navigation  | Viking 1975 entry vehicle                        |
| time synchronization                               | unmanned spacecraft  | Viking spacecraft                                |
| •  | GS unmanned spacecraft   | Viking 1 spacecraft                              |
| universe   | . Echo 2 satellite   | Viking lander 1                                  |
| UF metagalaxy                                      | . HEAO 1   | Viking orbiter 1                                 |
| RT big bang cosmology                              | . HEAO 2   | Viking 2 spacecraft                              |
| celestial bodies                                   | . HEAO 3   | Viking lander 2                                  |
| cosmology  | . HOTOL launch vehicle . Pioneer Venus spacecraft  | Viking orbiter 2 Viking lander spacecraft        |
| ∞ cosmos<br>dark energy                            | Pioneer Venus 1 spacecraft   | Viking lander spaceciait                         |
| dark matter  | Pioneer Venus 2 spacecraft   | Viking lander 2                                  |
| large-scale structure of the universe              | Pioneer Venus 2 entry probes   | Viking orbiter spacecraft                        |
| relic radiation                                    | Pioneer Venus 2 night probe  | Viking orbiter 1                                 |
|  | Pioneer Venus 2 sounder probe  | Viking orbiter 2                                 |
| universities                                       | Pioneer Venus 2 transporter bus  | Viking orbiter 1975                              |
| UF colleges  | . space probes   | Mars Climate Orbiter                             |
| RT education                                       | Explorer 18 satellite  | Mars Express                                     |
| instructors  | Giotto mission   | Mars Global Surveyor                             |
| learning<br>schools                                | Jupiter probes<br>Galileo probe  | Mars Polar Lander Mars Reconnaissance Orbiter    |
| students   | Galileo probe<br>Galileo spacecraft  | Nozomi Mars Orbiter                              |
| Students   | lunar probes   | Phobos spacecraft                                |
| university program                                 | Lunik lunar probes   | Phoenix Mars Lander                              |
| GS programs  | Lunik 2 lunar probe  | Zond 2 space probe                               |
| . university program                               | Lunik 3 lunar probe  | Pioneer space probes                             |
| RT bureaus (organizations)                         | Lunik 9 lunar probe  | Pioneer 1 space probe                            |
| investigation                                      | Lunik 10 lunar probe   | Pioneer 2 space probe                            |
| NASA programs                                      | Lunik 11 lunar probe   | Pioneer 3 space probe                            |
| teams  | Lunik 12 lunar probe   | Pioneer 4 space probe                            |
| LINITY (approxing system)                          | Lunik 13 lunar probe   | Pioneer 5 space probe                            |
| UNIX (operating system) (added October 1988)       | Lunik 14 lunar probe<br>Lunik 16 lunar probe   | Pioneer 6 space probe Pioneer 7 space probe      |
| GS computer programs                               | Lunik 16 lunar probe   | Pioneer 7 space probe                            |
| . computer systems programs                        | Lunik 17 lunar probe   | Pioneer 9 space probe                            |
| operating systems (computers)                      | Lunik 20 lunar probe   | Pioneer 10 space probe                           |
| UNIX (operating system)                            | Lunik 22 lunar probe   | Pioneer 11 space probe                           |
|  | •  | 1 222 1 222                                      |

|      | Pioneer Venus 2 entry probes  | saturation (chemistry)                                     | RT fixed w          | vinas   |
|------|---|--|---------------------|---|
|      | Pioneer Venus 2 night probe   | (* * * * * * * * * * * * * * * * * * *                     | swept               | •   |
|      | Pioneer Venus 2 sounder probe   | unsteady aerodynamics                                      | wing p              | lanforms  |
|      | solar probes  | GS fluid mechanics   |                     |   |
|      | Helios 1  | . fluid dynamics   | up-converters       |   |
|      | Helios 2  | gas dynamics   |                     | netric amplifiers characterized by                      |
|      | Helios A<br>Helios B  | aerodynamics<br><b>unsteady aerodynamics</b>               |                     | al frequencies being greater than of the input signals. |
|      |   | RT aerodynamic characteristics                             |                     | ncy converters  |
|      | Starprobe spacecraft Sunblazer space probe  | aerodynamic forces   |                     | onverters   |
|      | Venus probes  | aerodynamic stability                                      | RT ∞ conver         |   |
|      | Magellan spacecraft (NASA)  | aeroelasticity   |                     | etric frequency converters                              |
|      | Mariner 1 space probe   | aeroservoelasticity  | transfo             |   |
|      | Mariner 2 space probe   | flutter  |                     |   |
|      | Mariner 5 space probe   | flutter analysis   | updrafts            |   |
|      | Mariner 10 space probe  | unsteady flow  | USE vertica         | al air currents   |
|      | Pioneer Venus 2 spacecraft  | wing oscillations  | upgrading           |   |
|      | Pioneer Venus 2 entry probes Pioneer Venus 2 night probe                          | unsteady flow  | RT benefic          | ciation   |
|      | Pioneer Venus 2 sounder   | UF pulsating flow  |                     | ntrating  |
|      | probe   | GS fluid flow  | enrichr             | ment  |
|      | Pioneer Venus 2 transporter bus   | . unsteady flow  | experie             | ence  |
|      | Venera satellites   | oscillating flow   | improv              |   |
|      | Venera 2 satellite  | RT aerodynamics  | promot              |   |
|      | Venera 3 satellite  | critical flow  |                     | relations   |
|      | Venera 4 satellite  | ∞ flow<br>flow stability                                   | purifica            |   |
|      | Venera 5 satellite<br>Venera 6 satellite  | flow stability   | quality<br>refining |   |
|      | Venera 6 satellite  | gas flow   | 10111111            | 9   |
|      | Venera 7 satellite  | heat transmission  | uplinking           |   |
|      | Venera 9 satellite  | hydrodynamic coefficients                                  |                     | transmission of signals from                            |
|      | Venera 10 satellite   | laminar flow   | ground terminal     | ls to satellites in telecommunica-                      |
|      | Venera 11 satellite   | liquid flow  | tion systems.       |   |
|      | Venera 12 satellite   | mass flow  |                     | to noise ratios   |
|      | Zond 1 space probe  | method of characteristics                                  |                     | unication satellites                                    |
|      | Zond 3 space probe  | multiphase flow  | downlii             | ncy reuse   |
|      | Zond 4 space probe  | nonequilibrium flow<br>nonNewtonian flow                   |                     | vave transmission                                       |
|      | Zond 5 space probe  | nonuniform flow  |                     | e transmission  |
|      | Zond 6 space probe Zond 7 space probe   | orifice flow   |                     | nission efficiency                                      |
|      | Zond 8 space probe  | pipe flow  |                     | •   |
|      | Huygens probe   | pressure gradients   | upper air           |   |
|      | MESSENGER (spacecraft)  | single-phase flow  | USE <b>upper</b>    | atmosphere  |
|      | . Microwave Anisotropy Probe  | solids flow  | unner etmoonl       | horo  |
|      | Voyager 1 spacecraft  | steady flow  | upper atmosph       | eneral term applied to the atmo-                        |
|      | Voyager 2 spacecraft  | steady state   |                     | he troposphere. Used for upper                          |
|      | technology feasibility spacecraft   | steam flow<br>Strouhal number                              | air.                | ne tropospriere. Osed for upper                         |
|      | . Zond space probes   | subcritical flow   | UF upper            | air   |
|      | Zond 1 space probe Zond 2 space probe   | supercritical flow   |                     | atmosphere  |
|      | Zond 2 space probe  | turbulence   | . uppe              | er atmosphere   |
|      | Zond 4 space probe  | uniform flow   | Eart                | th ionosphere   |
|      | Zond 5 space probe  | unsteady aerodynamics                                      | E <u>I</u>          |   |
|      | Zond 6 space probe  |  |                     | E-1 layer   |
|      | Zond 7 space probe  | unsteady state   |                     | E-2 layer   |
|      | Zond 8 space probe  | RT ∞ equilibrium   |                     | sporadic E layer<br>wer ionosphere                      |
| RT   | artificial satellites   | fluid dynamics<br>metastable state                         |                     | oregion   |
|      | autonomous docking  | nonequilibrium conditions                                  |                     | pper ionosphere   |
|      | communication satellites geophysical satellites                                   | stability  |                     | region  |
|      | gravity gradient satellites   | steady state   |                     | F 1 region  |
|      | inflatable spacecraft   | systems stability  |                     | F 2 region  |
|      | interplanetary spacecraft   | thermodynamics   |                     | sphere  |
|      | lunar landing modules   | and and an Indian decide an effective                      |                     | mosphere  |
|      | lunar satellites  | unstructured grids (mathematics)                           |                     | rbopause<br>tic sounding                                |
|      | lunar spacecraft  | (added May 1995) DEF In computational fluid dynamics, grid | aerono              |   |
|      | manned spacecraft   | systems where the flowfield is discretized into            |                     | osphere   |
|      | Mariner program   | triangular-shaped elements for two-dimensional             |                     | ligned currents   |
|      | meteorological satellites military spacecraft                                     | fields, and tetrahedral elements for three-                | heteros             |   |
|      | reconnaissance spacecraft   | dimensional fields. In this type of grid system the        | high al             | ltitude   |
|      | recoverable spacecraft  | grid points cannot be associated with grid lines.          | homos               | •   |
|      | rendezvous spacecraft   | GS coordinates   | meteor              |   |
|      | reusable spacecraft   | . computational grids                                      |                     | rological balloons                                      |
|      | SIRS B satellite  | unstructured grids   |                     | atmosphere  |
|      | space capsules  | (mathematics) RT computational fluid dynamics              | ozonos<br>plasma    | spriere<br>asphere                                      |
| c    | spacecraft  | finite element method                                      |                     | precipitation   |
|      | Voyager project   | finite volume method                                       |                     | on belts  |
|      |   | grid generation (mathematics)                              | satellite           | e atmospheres   |
|      | ration (chemistry)  | multigrid methods  |                     | Atmosphere Research Satellite                           |
| DEF. | A state in which the atomic bonds of an   | structured grids (mathematics)                             | (U                  | JARS)   |
|      | compound's chain or ring are not com-   | unawant wings  | Homan Atrice        | hara Bassarah Catallita                                 |
|      | satisfied (not saturated); unsaturation results in a double bond (as for olefins) | unswept wings<br>GS airfoils                               | (UARS)              | here Research Satellite                                 |
|      | le bond (as for the acetylens).   | . wings  | (added Augu         | ıst 1989)   |
|      | chemical bonds  | . unswept wings  |                     | (satellite)   |
|      | • chemistry   | infinite span wings  |                     | al satellites   |
|      | precipitation (chemistry)   | rectangular wings  | . scien             | itific satellites                                       |
| c    | saturation  | ring wings   | Upp                 | oer Atmosphere Research                                 |

| БТ       | Satellite (UARS)   |               | wind direction                   |         | uranium isotopes                      |
|----------|--|---------------|----------------------------------|---------|---------------------------------------|
| RT       | upper atmosphere   | unwind        | schemes (mathematics)            |         | uranium 234<br>. nuclides             |
| upper i  | onosphere  |               | d July 1992)                     |         | isotopes                              |
|          | Earth atmosphere   |               | analysis (mathematics)           |         | uranium isotopes                      |
|          | . upper atmosphere   |               | . numerical analysis             |         | uranium 234                           |
|          | . Earth ionosphere   |               | approximation                    |         | metals                                |
|          | upper ionosphere   |               | upwind schemes (mathematics)     |         | . actinide series                     |
|          | F region   |               | computational fluid dynamics     |         | uranium                               |
|          | F 1 region   |               | Euler equations of motion        |         | uranium isotopes                      |
| RT       | F 2 region E region  |               | finite difference theory         |         | uranium 234                           |
|          | L region   | uracil        |                                  | uraniun | n 235                                 |
|          | stage rocket engines   | GS            | bases (chemical)                 | GS      | chemical elements                     |
| GS       | engines  |               | . uracil                         |         | . actinide series                     |
|          | . rocket engines   |               | nitrogen compounds               |         | uranium                               |
| RT       | upper stage rocket engines Ares 1 upper stage  |               | . uracil organic compounds       |         | uranium isotopes                      |
| KI       | Inertial Upper Stage   |               | . cyclic compounds               |         | uranium 235<br>. nuclides             |
|          | multistage rocket vehicles   |               | heterocyclic compounds           |         | isotopes                              |
|          | spacecraft configurations  |               | pyrimidines                      |         | uranium isotopes                      |
|          | spinning solid upper stage   |               | uracil                           |         | uranium 235                           |
|          | stage separation   | RT            | alloxan                          |         | metals                                |
|          |  |               | uridylic acid                    |         | . actinide series                     |
|          | surface blowing  |               |                                  |         | uranium                               |
|          | Use of jet blowing on the upper surface<br>Is to create variations in pressure distri- | uranium<br>GS | chemical elements                |         | uranium isotopes                      |
| bution.  | is to create variations in pressure distir-  |               | . actinide series                | RT      | uranium 235<br>nuclear fuels          |
| GS       | blowing  |               | uranium                          | KI      | nuclear rueis                         |
|          | . upper surface blowing  |               | uranium isotopes                 | uraniun | n 238                                 |
| RT       | aerodynamic characteristics  |               | uranium 232                      | GS      | chemical elements                     |
|          | aircraft configurations  |               | uranium 233                      |         | . actinide series                     |
|          | circulation control airfoils   |               | uranium 234                      |         | uranium                               |
|          | lift   |               | uranium 235                      |         | uranium isotopes                      |
| ۰        | ∞ surfaces   |               | uranium 238                      |         | uranium 238                           |
|          | under surface blowing  |               | metals                           |         | . nuclides                            |
| unner    | surface blown flaps  |               | . actinide series                |         | isotopes                              |
| GS       | airfoils   |               | uranium isotopes                 |         | radioactive isotopes uranium 238      |
|          | . flaps (control surfaces)   |               | uranium 232                      |         | uranium isotopes                      |
|          | externally blown flaps   |               | uranium 233                      |         | uranium 238                           |
|          | upper surface blown flaps  |               | uranium 234                      |         | metals                                |
|          | control surfaces   |               | uranium 235                      |         | . actinide series                     |
|          | flaps (control surfaces)   |               | uranium 238                      |         | uranium                               |
|          | externally blown flaps   |               | fissionable materials            |         | uranium isotopes                      |
| RT       | upper surface blown flaps aircraft stability   |               | jet membrane process             | DT      | uranium 238                           |
| KI       | blowing  |               | nuclear fuels<br>uranium plasmas | RT      | nuclear fuels                         |
|          | boundary layer control   |               | diamum piasmas                   | uraniun | n alloys                              |
|          | lift augmentation  | uranium       | 232                              | GS      | alloys                                |
|          | lift devices   |               | chemical elements                |         | . uranium alloys                      |
| ۰        | ∞ surfaces   |               | . actinide series                | RT      | nuclear fuel elements                 |
|          |  |               | uranium                          |         | nuclear fuels                         |
| Upper \  |  |               | uranium isotopes                 |         |                                       |
| USE      | Burkina  |               | uranium 232                      |         | n carbides                            |
| upsettii | na   |               | . nuclides isotopes              | GS      | actinide series compounds             |
| RT       |  |               | radioactive isotopes             |         | . uranium compounds uranium carbides  |
|          | cold working   |               | uranium 232                      |         | carbon compounds                      |
|          | forming techniques   |               | uranium isotopes                 |         | . carbides                            |
|          | hot isostatic pressing   |               | uranium 232                      |         | uranium carbides                      |
|          | hot pressing   |               | metals                           | RT      | ceramic nuclear fuels                 |
|          | hot working  |               | . actinide series                |         | nuclear fuel elements                 |
|          | pressing (forming)   |               | uranium                          |         | nuclear fuels                         |
|          | stamping   |               | uranium isotopes                 | uraniun | n compounds                           |
| upstrea  | am   |               | uranium 232                      |         | actinide series compounds             |
| RT       | air currents   | uranium       | 233                              | 00      | . uranium compounds                   |
|          | water currents   |               | chemical elements                |         | uranium carbides                      |
|          | wind direction   |               | . actinide series                |         | uranium fluorides                     |
|          |  |               | uranium                          |         | uranium oxides                        |
| upwash   |  |               | uranium isotopes                 | RT      |                                       |
| RT       | downwash   |               | uranium 233                      |         | ochemical compounds                   |
| ٥        | odraft   |               | . nuclides                       | ۰       | o metal compounds                     |
|          | interference drag interference lift  |               | isotopes radioactive isotopes    |         | nuclear fuels                         |
|          | interiorence int   |               | uranium 233                      | uraniun | n fluorides                           |
| upwellir | na   |               | uranium isotopes                 | GS      | actinide series compounds             |
|          | upwelling water  |               | uranium 233                      |         | . uranium compounds                   |
|          | -  |               | metals                           |         | uranium fluorides                     |
|          | ng water   |               | . actinide series                |         | halogen compounds                     |
|          | The process by which water rises from  |               | uranium                          |         | . fluorine compounds                  |
|          | er to a shallower depth. Used for up-  |               | uranium isotopes                 |         | fluorides                             |
| welling. | unwalling  |               | uranium 233                      |         | metal fluorides                       |
| UF<br>RT | upwelling atmospheric circulation  | RT            | nuclear fuels                    |         | <b>uranium fluorides</b><br>. halides |
| IXI      | coasts   | uranium       | 234                              |         | fluorides                             |
|          | ocean currents   |               | chemical elements                |         | metal fluorides                       |
|          | thermohaline circulation   |               | . actinide series                |         | uranium fluorides                     |

. . uranium

wind (meteorology)

. . metal halides

|         | metal fluorides                             |               | methane                                     |                | surface vehicles                         |
|---------|---|---------------|---|----------------|--|
|         | uranium fluorides                           |               | planetary ionospheres                       |                |  |
| uraniur | n isotopes                                  |               | Uranus (planet)                             | ureas<br>GS    | nitrogen compounds                       |
| GS      | chemical elements                           | Uranus        | ringe                                       | 93             | . amides                                 |
|         | . actinide series                           |               | Ring structures encircling the planet       |                | ureas                                    |
|         | uranium                                     |               | and similar to those of the planet Saturn.  |                | difluorourea                             |
|         | uranium isotopes                            | GS            | celestial bodies                            |                | thioureas                                |
|         | uranium 232                                 |               | . planetary rings                           |                | thiuronium                               |
|         | uranium 233                                 |               | Uranus rings                                | RT             | diuretics                                |
|         | uranium 234                                 | RT            | Jupiter rings                               |                | fertilizers                              |
|         | uranium 235<br>uranium 238                  |               | moonlets                                    |                | urine                                    |
|         | . nuclides                                  |               | natural satellites                          | ureilites      | s  |
|         | isotopes                                    | ,             | planetary structure<br>∞ rings              |                | ed December 1988)                        |
|         | uranium isotopes                            | ·             | Saturn rings                                | ĠS             | celestial bodies                         |
|         | uranium 232                                 |               | Uranus (planet)                             |                | . meteorites                             |
|         | uranium 233                                 |               | 4   |                | stony meteorites                         |
|         | uranium 234                                 | Uranus        | s satellites                                |                | achondrites                              |
|         | uranium 235                                 | GS            | celestial bodies                            |                | ureilites                                |
|         | uranium 238                                 |               | . natural satellites                        |                | carbonaceous meteorites <b>ureilites</b> |
|         | metals . actinide series                    |               | Uranus satellites                           | RT             | meteoritic diamonds                      |
|         | uranium                                     |               | Ariel                                       | IXI            | meteoritic diamonds                      |
|         | uranium isotopes                            |               | Cordelia<br>Miranda                         | urethar        | nes                                      |
|         | uranium 232                                 |               | Oberon                                      | GS             | esters                                   |
|         | uranium 233                                 |               | Puck  |                | . Carbamates (tradename)                 |
|         | uranium 234                                 |               | Titania                                     |                | urethanes                                |
|         | uranium 235                                 |               | Umbriel                                     |                | poisons                                  |
|         | uranium 238                                 |               |   |                | . pesticides                             |
|         | a suldes                                    | urban a       | areas                                       |                | insecticides                             |
| GS      | n oxides actinide series compounds          | USE           | cities                                      |                | Carbamates (tradename) urethanes         |
| GS      | . uranium compounds                         |               |   | RT             | cyanates                                 |
|         | uranium oxides                              |               | development                                 | 101            | cydnates                                 |
|         | chalcogenides                               | RT            |   | uric aci       | id                                       |
|         | . oxides                                    |               | communities                                 | GS             | acids                                    |
|         | metal oxides                                |               | ∞ development economic development          |                | . uric acid                              |
|         | uranium oxides                              |               | industrial areas                            |                | fungicides                               |
| RT      | ceramic nuclear fuels                       |               | land use                                    |                | . xanthines                              |
|         | mixed oxides                                |               | megalopolises                               |                | uric acid                                |
|         | nuclear fuels                               |               | operations research                         |                | nitrogen compounds<br>. xanthines        |
| uraniur | n plasmas                                   |               | parks                                       |                | uric acid                                |
| GS      | metals                                      |               | planning                                    |                | organic compounds                        |
|         | . uranium plasmas                           | •             | ∞ plans                                     |                | . cyclic compounds                       |
|         | particles                                   |               | regional planning                           |                | heterocyclic compounds                   |
|         | . charged particles                         |               | residential areas<br>resources              |                | purines                                  |
|         | energetic particles                         |               | Starsite program                            |                | xanthines                                |
|         | plasmas (physics)                           |               | technologies                                |                | uric acid                                |
|         | metallic plasmas                            |               | g   | RT             | alloxan                                  |
|         | uranium plasmas                             | urban         | planning                                    | uridylia       | acid                                     |
|         | . corpuscular radiation energetic particles | GS            | planning                                    | uridylic<br>GS | acids                                    |
|         | plasmas (physics)                           |               | regional planning                           | 00             | . uridylic acid                          |
|         | metallic plasmas                            |               | urban planning                              |                | organic compounds                        |
|         | uranium plasmas                             | RT            | census                                      |                | . nucleotides                            |
| RT      | magnetohydrodynamics                        |               | cities                                      |                | uridylic acid                            |
|         | plasma composition                          |               | communities                                 |                | . organic phosphorus compounds           |
|         | plasma physics                              |               | heat islands                                |                | uridylic acid                            |
|         | radioactive materials                       |               | highways<br>land management                 |                | phosphorus compounds                     |
|         | uranium                                     |               | land use                                    |                | organic phosphorus compounds             |
| Hranue  | (planet)                                    |               | parks                                       |                | uridylic acid<br>. phosphates            |
| GS      | celestial bodies                            |               | public health                               |                | uridylic acid                            |
| 00      | . planets                                   |               | recreation                                  | RT             | amino acids                              |
|         | gas giant planets                           |               | social factors                              |                | nucleic acids                            |
|         | Uranus (planet)                             |               | sociology                                   |                | uracil                                   |
| RT      | Ariel                                       |               | Starsite program                            |                |  |
|         | Cordelia                                    |               | streets                                     | urinaly        | sis                                      |
|         | Miranda                                     |               |   | GS             | chemical tests                           |
|         | Oberon                                      | urban i<br>RT | research                                    |                | chemical analysis                        |
|         | Puck  | KI            | cities<br>communities                       | DT             | urinalysis                               |
|         | Titania<br>Umbriel                          |               | land use                                    | RT             | diabetes mellitus physiological tests    |
|         | Uranus atmosphere                           |               | recreation                                  |                | urine                                    |
|         | Uranus rings                                |               | social factors                              |                | dillo                                    |
|         | Voyager 2 spacecraft                        |               | streets                                     | urinatio       | on                                       |
|         | -,-9-                                       |               |   | UF             | micturition                              |
|         | atmosphere                                  |               | transportation                              | RT             | diuresis                                 |
| DEF     | The atmosphere of the planet Uranus.        | GS            | transportation                              |                | urine                                    |
| GS      | environments                                |               | urban transportation                        |                | water balance                            |
|         | . extraterrestrial environments             | RT            | automated guideway transit vehicles         |                |  |
|         | planetary environments                      |               | automated mixed traffic vehicles            | urine          | hady fluids                              |
|         | planetary atmospheres Uranus atmosphere     |               | automated transit vehicles industrial areas | GS             | body fluids<br>. <b>urine</b>            |
| RT      | aerospace environments                      |               | megalopolises                               |                | wastes                                   |
|         | aerospace environments<br>atmospheres       |               | rail transportation                         |                | . liquid wastes                          |
|         | gas giant planets                           |               | rapid transit systems                       |                | urine                                    |
|         | hydrogen                                    |               | regional planning                           |                | . metabolic wastes                       |

.. human wastes . user requirements ∞ military aircraft . . urine commerce lab observation aircraft antidiuretics human-computer interface reconnaissance aircraft creatinine international cooperation ∞ subsonic aircraft excretion specifications transport aircraft feces V/STOL aircraft hematuria user-computer interface water takeoff and landing aircraft kidneys USE human-computer interface ureas utilization urinalysis USNS Kingsport application USE satellite communications ships utilization urination . coal utilization urography Utah . geothermal energy utilization GS imagery nations . laser applications . . laser ablation . photography . United States urography . Utah . . laser annealing . . laser cooling . radiography Colorado Plateau (US) . urography Colorado River (North America) . . laser cutting black and white photography Great Basin (US) . . laser deposition Great Salt Lake (UT) ... pulsed laser deposition . . laser drilling urolithiasis GS diseases uterus . . laser fusion . urolithiasis GS anatomy . . laser guidance RT calculi . genitourinary system . . laser guide stars kidneys . . reproductive systems . . laser heating urology . . . uterus . . laser induced fluorescence . . laser interferometry urology utilities . . laser machining GS medical science RT ∞ electric equipment . . laser microscopy urology ∞ electric power . . laser power beaming bladder garbage . . laser propulsion genitourinary system industries . . laser spectroscopy kidneys integrated energy systems ... optogalvanic spectroscopy urolithiasis logistics . . laser ranging Modular Integrated Utility System . . laser weapons Uruguay services . . laser welding nations GS site selection . . . satellite laser ranging Uruguay telephones . reuse South America waste disposal . . software reuse water . in situ resource utilization US Laboratory Module (ISS) . technology utilization (added February 2001) utility aircraft . waste energy utilization USE Destiny Laboratory Module GS utility aircraft . waste utilization BO-105 helicopter . windpower utilization US-2A aircraft DHC 4 aircraft RT consumption USE S-2 aircraft DHC 5 aircraft depletion. HH-43 helicopter efficiency USA (United States) S-2 aircraft USE United States Saab 105 aircraft utricle T-39 aircraft user manuals (computer programs) plants (botany) RT U-2 aircraft documents seeds . U-10 aircraft . handbooks UH-1 helicopter . . user manuals (computer UV Ceti stars . UH-2 helicopter programs) USE flare stars . UH-60A helicopter . manuals UH-61A helicopter . . user manuals (computer UV lasers XV-8A aircraft programs) USE ultraviolet lasers RT computer programs . Z-37 aircraft programs RT ∞ aircraft Uzbekistan biplanes report generators (added August 1993) cargo aircraft ∞ routines nations commercial aircraft subroutines Uzbekistan general aviation aircraft RT Asia user requirements helicopters GS requirements light aircraft

| V band   | S-67 helicopter                 | X-22 aircraft                                    |
|--|---------------------------------|--|
| USE extremely high frequencies                     | H-17 helicopter                 | X-22A aircraft                                   |
| 3 · · · · · · · · · · · · · · · · · · ·            | heavy lift helicopters          | XC-142 aircraft                                  |
| V grooves  | ·                               | XV-4 aircraft                                    |
| •  | CH-62 helicopter                |  |
| GS grooves   | light helicopters               | XV-11A aircraft                                  |
| . V grooves  | OH-4 helicopter                 | . VZ-2 aircraft                                  |
| riblets  | OH-5 helicopter                 | . X-32 aircraft                                  |
| RT machining                                       | OH-6 helicopter                 | . X-35 aircraft                                  |
| micromachining                                     | •                               | . XV-3 aircraft                                  |
| notches  | OH-58 helicopter                | . XV-5 aircraft                                  |
| 110101100  | military helicopters            | . XV-8A aircraft                                 |
| V-1 missile  | AH-1G helicopter                |  |
|  | AH-1S helicopter                | RT ∞ aircraft                                    |
| GS missiles  | AH-1W helicopter                | antisubmarine warfare aircraft                   |
| . surface to surface missiles                      |                                 | attack aircraft                                  |
| V-1 missile  | AH-63 helicopter                | commercial aircraft                              |
| RT liquid propellant rocket engines                | AH-64 helicopter                | convertible fan-shaft engines                    |
| 1 1 1  | BO-105 helicopter               |  |
| pulsejet engines                                   | CH-3 helicopter                 | drone aircraft                                   |
|  | CH-21 helicopter                | fan in wing aircraft                             |
| V-2 missile  |                                 | fighter aircraft                                 |
| GS missiles  | CH-34 helicopter                | ground effect machines                           |
| . ballistic missiles                               | CH-46 helicopter                | •  |
| V-2 missile  | CH-47 helicopter                | heliports  |
|  | CH-54 helicopter                | hovering   |
| RT liquid propellant rocket engines                | CH-62 helicopter                | jet aircraft                                     |
|  |                                 | ∞ military aircraft                              |
| V-3 aircraft                                       | H-19 helicopter                 | passenger aircraft                               |
| USE XV-3 aircraft                                  | H-43 helicopter                 | reconnaissance aircraft                          |
| 002 /// 0 4 0.4                                    | H-53 helicopter                 |  |
| V-4 aircraft                                       | H-54 helicopter                 | research aircraft                                |
|  | H-56 helicopter                 | short haul aircraft                              |
| USE XV-4 aircraft                                  |                                 | STOVL aircraft                                   |
|  | H-60 Helicopter                 | tilt wing aircraft                               |
| V-5 aircraft                                       | HC-3 helicopter                 | <u> </u>   |
| USE XV-5 aircraft                                  | HH-43 helicopter                | transition flight                                |
| 002 /// 0 4 0.4                                    | HH-65 helicopter                | transport aircraft                               |
| V.O. airoroft                                      | OH-4 helicopter                 | utility aircraft                                 |
| V-9 aircraft                                       | •                               | vertical flight                                  |
| USE XV-9A aircraft                                 | OH-5 helicopter                 | Weser aircraft                                   |
|  | OH-6 helicopter                 | Westland aircraft                                |
| V-22 aircraft                                      | OH-13 helicopter                | Westianu ancian                                  |
| (added September 1990)                             | OH-23 helicopter                |  |
| DEF A Bell/Boeing developed tilt rotor air-        | OH-58 helicopter                | vacancies (crystal defects)                      |
|  | P-531 helicopter                | DEF Vacent sites in a crystal structure due      |
| craft, nicknamed "Osprey", and designed for        |                                 | to the absence of an atom or ion from its normal |
| light multiservice use. Used for Osprey aircraft.  | QH-50 helicopter                | structural position.                             |
| UF Osprey aircraft                                 | S-67 helicopter                 |  |
| GS Bell aircraft                                   | SA-321 helicopter               | GS defects                                       |
| . V-22 aircraft                                    | SA-330 helicopter               | . crystal defects                                |
|  | SH-3 helicopter                 | point defects                                    |
| Boeing aircraft                                    |                                 | vacancies (crystal defects)                      |
| . V-22 aircraft                                    | SH-4 helicopter                 | Frenkel defects                                  |
| V/STOL aircraft                                    | Sikorsky Whirlwind helicopter   |  |
| . rotary wing aircraft                             | UH-1 helicopter                 | RT antisite defects                              |
| tilt rotor aircraft                                | UH-2 helicopter                 | binding energy                                   |
| V-22 aircraft                                      | UH-34 helicopter                | holes (electron deficiencies)                    |
|  |                                 | square wells                                     |
| RT ∞ aircraft                                      | UH-60A helicopter               | oquato trono                                     |
| helicopters  | UH-61A helicopter               |  |
| ∞ military aircraft                                | Westland Whirlwind helicopter   | vaccines   |
| rotary wings                                       | XV-9A aircraft                  | GS vaccines                                      |
|  |                                 | . inoculum                                       |
| Tilt Rotor Research Aircraft Program               | rigid rotor helicopters         | RT acquired immunodeficiency syndrome            |
| tilt wing aircraft                                 | CH-3 helicopter                 | i  |
| tilting rotors                                     | F-28 helicopter                 | antibodies                                       |
|  | XH-51 helicopter                | antigens   |
| V/STOL aircraft                                    | S-58 helicopter                 | antiserums                                       |
| DEF A hybrid form of heavier-than-air air-         | S-61 helicopter                 | bacteriology                                     |
|  |                                 | biocompatibility                                 |
| craft that is capable, by virtue of one or more    | tandem rotor helicopters        | diseases   |
| horizontal rotors or units acting as rotors, of    | CH-46 helicopter                |  |
| taking off, hovering, and landing as, or in a      | CH-47 helicopter                | drugs  |
| fashion similar to, a helicopter, and once aloft,  | H-25 helicopter                 | epidemiology                                     |
| and moving forward, capable, by means of a         | EH-101 helicopter               | human immunodeficiency virus                     |
| mechanical conversion of one sort or another, of   | TH-55 helicopter                | inoculation                                      |
|  | •                               | toxicology                                       |
| flying as a fixed-wing aircraft, especially in its | rotor systems research aircraft | toxins and antitoxins                            |
| higher speed ranges. Used for convertaplanes       | tilt rotor aircraft             | toxins and antitoxins                            |
| and steep gradient aircraft.                       | V-22 aircraft                   |  |
| UF convertaplanes                                  | XV-15 aircraft                  | vacillation                                      |
| steep gradient aircraft                            | . short takeoff aircraft        | RT dithers                                       |
| . •  |                                 | human reactions                                  |
|  | Aladin 2 aircraft               | numan reactions                                  |
| . CL-84 aircraft                                   | Breguet 940 aircraft            |  |
| . DO-31 aircraft                                   | Breguet 941 aircraft            | vacuum   |
| . FV-12A aircraft                                  | C-8A augmentor wing aircraft    | DEF A given space filled with gas at pres-       |
| . G-95/4 aircraft                                  | C-15 aircraft                   | sures below atmospheric pressure. Used for       |
| . G-222 aircraft                                   | C-123 aircraft                  | aspiration.                                      |
|  |                                 | •  |
| . L-29 jet trainer                                 | DHC 4 aircraft                  | UF aspiration                                    |
| . P-1127 aircraft                                  | DHC 5 aircraft                  | GS pressure                                      |
| . P-1154 aircraft                                  | Questol aircraft                | . vacuum   |
| . rotary wing aircraft                             | U-10 aircraft                   | high vacuum                                      |
|  |                                 |  |
| autogyros  | . vertical takeoff aircraft     | low vacuum                                       |
| Avian 2/180 autogiro                               | flying platforms                | ultrahigh vacuum                                 |
| helicopters  | SC-1 aircraft                   | RT aerospace environments                        |
| Alouette helicopters                               | VJ-101 aircraft                 | boundary layer control                           |
| SA-330 helicopter                                  | VZ-8 aircraft                   | evacuating (vacuum)                              |
|  | X-13 aircraft                   |  |
| SE-3160 helicopter                                 |                                 | getters  |
| Bell 214A helicopter                               | X-14 aircraft                   | high pressure                                    |
| compound helicopters                               | X-19 aircraft                   | Knudsen flow                                     |
|  |                                 |  |

low pressure mean free path offgassing outgassing pressure measurement rarefaction suction

### vacuum apparatus

# GS vacuum apparatus

. vacuum chambers

. vacuum furnaces

. vacuum gages

. . ionization gages

. . . alphatrons

... Bayard-Alpert ionization gages

... Penning gages

Philips ionization gages

. . Knudsen gages

Mcleod gages

. . Pirani gages

. vacuum pumps

. . condensation pumps

..ion pumps

. . molecular pumps

cold traps diffusion pumps high vacuum low density research residual gas suction

> ultrahigh vacuum vacuum arc switches

### vacuum arc switches

GS switches

. electric switches

. vacuum arc switches

airborne equipment switching circuits vacuum apparatus vacuum effects

### vacuum chambers

low pressure chambers

GS compartments

. test chambers

. . pressure chambers .. vacuum chambers

vacuum apparatus

vacuum chambers

RT altitude simulation

∞ chambers

high altitude environments

high altitude pressure

hyperbaric chambers

space environment simulation

space simulators thermal vacuum tests wind tunnel drives

### vacuum deposition

deposition

. vapor deposition

.. vacuum deposition

ceramic coatings diamond films electroless deposition ion plating

### vacuum effects

RT cold welding  $\infty$  effects environments

offgassing pressure effects space manufacturing vacuum arc switches

# vacuum furnaces

GS heating equipment

. furnaces

. vacuum furnaces vacuum apparatus

. vacuum furnaces

RT solar furnaces

### vacuum gages

GS measuring instruments

. pressure gages

. . vacuum gages ... ionization gages

alphatrons

.... Bayard-Alpert ionization gages

Penning gages

. . . . Philips ionization gages

Knudsen gages

Mcleod gages Pirani gages

vacuum apparatus

. vacuum gages

. . ionization gages

alphatrons

. Bayard-Alpert ionization gages

Penning gages

Philips ionization gages

. . Knudsen gages

. . Mcleod gages

. . Pirani gages barometers

manometers

orbitrons

pressure measurement

# vacuum melting

phase transformations GS

. melting

. vacuum melting

RT arc melting induction heating levitation

powder metallurgy zone melting

### vacuum pumps

GS pumps

. vacuum pumps

. . condensation pumps

..ion pumps

. . molecular pumps vacuum apparatus

. vacuum pumps

. . condensation pumps

..ion pumps

. . molecular pumps

compressors

cryopumping diffusion pumps ejectors

evacuating (vacuum)

jet pumps materials handling

outgassing suction

### vacuum spectroscopy

GS

spectroscopy
. vacuum spectroscopy

gas spectroscopy inductively coupled plasma mass spectrometry

infrared spectroscopy magnetic spectroscopy mass spectroscopy

molecular spectroscopy nuclear radiation spectroscopy spectroscopic analysis

ultraviolet spectroscopy x ray spectroscopy

### vacuum systems

DEF Chambers having walls capable of withstanding atmospheric pressure and having an opening through which the gas can be removed through a pipe or manifold to a pumping system. The pumping system may or may not be considered as part of the vacuum system.

RT ampoules ∞ systems

# vacuum tests

vacuum tests GS

thermal vacuum tests

high vacuum

hypobaric atmospheres test chambers

∞ tests

ultrahigh vacuum

# vacuum tube oscillators

GS electron tubes

. vacuum tubes

. vacuum tube oscillators

oscillators

. vacuum tube oscillators

autodynes

frequency modulation photomultipliers

microwave oscillators

### vacuum tubes

DEF Electron tubes evacuated to such a degree that their electrical characteristics are essentially unaffected by the presence of residual gas or vapor.

GS electron tubes

. vacuum tubes

. . cathode ray tubes

. . . monoscopes

. . . picture tubes

. . cesium diodes

. . microwave tubes . . . celescopes

cyclotron resonance devices

klystrons

magnetrons

. . . . nigotrons planotrons

. . . traveling wave tubes . . . . backward wave tubes

. . . . helitrons

. . . . carcinotrons . . vacuum tube oscillators

RT pentodes perveance residual gas

vacuum ultraviolet radiation

USE far ultraviolet radiation

### vadose water

GS water

. vadose water coastal water

evapotranspiration Lake Texoma (OK-TX) nearshore water

river basins soils water tables

# valence

DEF numbers representing the combining or displacing power of an atom, number of electrons lost, gained or shared by an atom in a compound, number of hydrogen atoms with which an atom will combine, or which it will displace. The valance of an element is the ratio of the atomic weight to the equivalent weight.

GS valence

. octets

chemical bonds conduction electrons

ion charge ions positive ions quantum wells

trivalent ions

valeric acid GS acids

. carboxylic acids

. . fatty acids

. . valeric acid organic compounds

. carboxylic acids

. . fatty acids ... valeric acid

# Valiant aircraft

Vickers Valiant aircraft

attack aircraft . bomber aircraft . Valiant aircraft

BAC aircraft

Valiant aircraft iet aircraft

Valiant aircraft

|           | monoplanes                                     |          | cost incentives                                       |        | intermolecular forces               |
|-----------|--|----------|---|--------|-------------------------------------|
| ОТ        | . Valiant aircraft                             |          | cost reduction  | Van Ch | ulca mathad                         |
| RI∝       | aircraft<br>reconnaissance aircraft            |          | design analysis                                       |        | yke method<br>chemical tests        |
|           | tanker aircraft                                |          | economic analysis<br>∘ engineering                    | 00     | . chemical analysis                 |
|           | talikel alicialt                               |          | incentive techniques                                  |        | gas analysis                        |
| validatio | n  |          | life cycle costs                                      |        | Van Slyke method                    |
| USE       | proving  |          | management planning                                   |        | quantitative analysis               |
|           |  |          | quality control                                       |        | Van Slyke method                    |
| validity  |  |          | reliability engineering                               | RT -   | ∞ methodology                       |
| RT        | acceptability                                  |          | standards   |        |                                     |
|           | accuracy                                       |          | total quality management                              | vanada |                                     |
|           | adequacy                                       |          |   | GS     | vanadium compounds                  |
|           | correlation                                    | valves   |   |        | . vanadates calcium vanadates       |
|           | existence                                      | UF       | hydraulic valves                                      | RT     |                                     |
|           | mathematical models                            | GS       | valves  |        | vanadium oxides                     |
|           | precision                                      |          | . automatic control valves                            |        |                                     |
|           | quality  |          | pressure regulators relief valves                     | vanadi | um                                  |
|           | reliability                                    |          | . butterfly valves                                    | GS     | chemical elements                   |
|           | simulation                                     |          | dampers (valves)                                      |        | . ∨anadium                          |
|           | standards                                      |          | . cocks   |        | vanadium isotopes                   |
|           | statistical tests                              |          | . control valves                                      |        | metals                              |
|           | variability                                    |          | . fuel valves   |        | . transition metals vanadium        |
| Valkyrie  | aircraft                                       |          | . gas valves  |        | vanadium isotopes                   |
| USE       |  |          | . heart valves  | RT     | vanadium alloys                     |
|           |  |          | artificial heart valves                               |        |                                     |
| valleys   |  | DT       | . solenoid valves                                     | vanadi | um alloys                           |
| UF        | intermontane floors                            | RT       | balls   | GS     | alloys                              |
|           | rift valleys                                   |          | chokes (restrictions) closures                        |        | . vanadium alloys                   |
|           | rills  |          | diverters   | RT     | aluminum alloys                     |
| GS        | valleys  |          | engine parts  |        | microstructure                      |
|           | . Coachella Valley (CA)<br>. Death Valley (CA) |          | hydraulic equipment                                   |        | titanium alloys<br>vanadium         |
|           | . Imperial Valley (CA)                         |          | packings (seals)                                      |        | variaulum                           |
|           | . Magdalena-Cauca Valley (Colombia)            |          | pneumatic circuits                                    | vanadi | um carbides                         |
|           | . Palo Verde Valley (CA)                       |          | pneumatic equipment                                   | GS     |                                     |
|           | . Potomac River Valley (MD-VA-WV)              |          | seals (stoppers)                                      |        | . carbides                          |
|           | Sacramento Valley (CA)                         |          | traps   |        | ∨anadium carbides                   |
|           | . San Joaquin Valley (CA)                      |          | water hammer  |        | vanadium compounds                  |
|           | . Shenandoah Valley (VA)                       |          |   |        | . vanadium carbides                 |
|           | . St Lawrence Valley (North America)           |          | e aircraft  |        |                                     |
| RT        | . Tennessee Valley (AL-KY-TN)                  | USE      | DH 115 aircraft                                       |        | um compounds vanadium compounds     |
| KI        | canyons Delaware River Basin (US)              |          |   | 00     | . vanadates                         |
|           | erosion  |          | e MK 35 aircraft                                      |        | calcium vanadates                   |
|           | meanders                                       | GS       | attack aircraft                                       |        | . vanadium carbides                 |
|           | Missouri River (US)                            |          | . fighter aircraft                                    |        | . vanadium oxides                   |
|           | ravines  |          | Vampire MK 35 aircraft Hawker Siddeley aircraft       |        | . vanadyl compounds                 |
|           | rivers   |          | . Vampire MK 35 aircraft                              |        | ∞ chemical compounds                |
|           | structural basins                              |          | jet aircraft  |        | ∞ Group 5B compounds                |
|           | Susquehanna River Basin                        |          | . Vampire MK 35 aircraft                              | •      | ∞ metal compounds                   |
|           | (MD-NY-PA)                                     |          | single engine aircraft                                |        | ······· inatawa                     |
|           | topography                                     |          | . Vampire MK 35 aircraft                              |        | um isotopes<br>chemical elements    |
|           | watershede                                     | RT «     | ∞ aircraft  | GS     | . nuclides                          |
|           | watersheds                                     |          | bomber aircraft                                       |        | isotopes                            |
| Valsalva  | a exercise                                     |          | Harrier aircraft                                      |        | vanadium isotopes                   |
|           | The procedure of raising the pressure          |          |   |        | . vanadium                          |
|           | asapharynx by forcible expiration with         |          | en radiation belts                                    |        | vanadium isotopes                   |
|           | th closed and nostrils pinched, in order       | USE      | radiation belts                                       |        | metals                              |
|           | the eustachian tubes. Used for valsalva        |          |   |        | . transition metals                 |
| maneuv    |  |          | esbroeck star   |        | vanadium                            |
| UF        | Valsalva maneuver                              | GS       | celestial bodies                                      |        | vanadium isotopes                   |
| RT        | respiration                                    |          | . stars   | vanadi | um oxides                           |
| Valsalva  | maneuver                                       |          | late stars  |        | chalcogenides                       |
| USE       | Valsalva exercise                              |          | cool stars  | 00     | . oxides                            |
| 002       |  |          | M stars<br>Van Biesbroeck star                        |        | metal oxides                        |
| value     |  |          | Vali biesbroeck stai                                  |        | vanadium oxides                     |
| GS        | value  | V        | Q   |        | vanadium compounds                  |
|           | . Q values (nuclear physics)                   |          | Graaff accelerators Electrostaic machines in which an |        | . ∨anadium oxides                   |
| RT        | amount   |          | al charge is carried into the high voltage            | RT     | thermochromic coatings              |
|           | assessments                                    |          | by a belt made of insulating materials                |        | vanadates                           |
|           | costs  |          | at high speed. The particles are then                 |        |                                     |
|           | damage assessment estimates                    |          | ated along a discharge path through a                 |        | /I compounds<br>vanadium compounds  |
|           | estimating                                     | vacuum   | tube by the potential difference between              | 63     | . vanadyl compounds                 |
|           | evaluation                                     | the insu | lated terminal and the gorunded end of                | RT.    | ∞ chemical compounds                |
|           | figure of merit                                |          | elerator.   |        | ∞ metal compounds                   |
|           | level (quantity)                               | GS       | particle accelerators                                 |        |                                     |
|           | norms  | 57       | . Van de Graaff accelerators                          | vanady | /I radical                          |
|           | ranking  | RI a     | oloctron accolorators                                 | GS     | ions                                |
|           | technology assessment                          |          | electron accelerators                                 |        | . molecular ions                    |
|           |  |          | Maria Commi   |        | ∨anadyl radical                     |
|           | ngineering                                     |          | r Waals forces  |        | . positive ions                     |
| RT        | concurrent engineering                         | RT       | dipole moments  |        | cations                             |
|           | cost analysis<br>cost estimates                | c        | interatomic forces                                    |        | v <b>anadyl radical</b><br>radicals |
|           | oos. oominatoo                                 |          |   |        | · adiodio                           |

| . ∨anadyl radical                                    | GS clothing   | phase diagrams  |
|--|---|---|
|  | . protective clothing                                     | ∞ phases  |
| vaneless diffusers                                   | ∨apor barrier clothing                                    | prevaporization   |
| RT compressors                                       | RT ∞ barriers   | solids  |
| ∞ diffusers  | life support systems                                      | supercritical pressures                                       |
| exhaust diffusers                                    | textiles  | vapors  |
| pumps  |   | volatility  |
| supersonic diffusers                                 | vapor deposition  |   |
|  | UF chemical vapor deposition                              | vapor pressure  |
| vanes  | CVD (deposition)  | DEF The pressure exerted by the molecules                     |
| GS vanes   | GS deposition   | of a given vapor. For a pure confined vapor, it is            |
| . guide vanes  | . vapor deposition  | that vapor's pressure on the walls of its contain-            |
| jet vanes<br>. wind vanes                            | metalorganic chemical vapor                               | ing vessel; and for a vapor mixed with other                  |
| RT airfoils  | deposition vacuum deposition                              | vapors or gases, it is that vapor's contribution to           |
| ∞ blades   | RT atomic layer epitaxy                                   | the total pressure (i.e., its partial pressure).  GS pressure |
| compressor blades                                    | coating   | . vapor pressure  |
| control surfaces                                     | coating   | thermodynamic properties                                      |
| fins   | crystal growth  | . thermophysical properties                                   |
| impellers  | diamond films   | vapor pressure  |
| nose fins  | electroless deposition                                    | RT Dalton law   |
| stator blades  | laser deposition  | flash point   |
| tail assemblies                                      | metal vapors  | fuel tank pressurization                                      |
| turbomachine blades                                  | metallizing   | Henry law   |
| windpower utilization                                | nanostructure growth                                      | humidity  |
| windpowered generators                               | pulsed laser deposition                                   | interfacial tension   |
| windpowered pumps                                    | ultrapure metals  | liquid-gas mixtures   |
|  | vaporizers  | liquid-vapor interfaces                                       |
| Vanguard 1 satellite                                 | vaporizing  | partial pressure  |
| GS artificial satellites                             |   | Raoult law  |
| . geodetic satellites                                | vapor generators  | sublimation   |
| . Vanguard 1 satellite                               | USE vaporizers  | supercritical pressures                                       |
| . Vanguard satellites<br><b>Vanguard 1 satellite</b> | vanor iote  | volatility  |
| vanguaru i satemite                                  | vapor jets<br>GS fluid jets                               | vapar traila  |
| vanguard 2 launch vehicle                            | . vapor jets  | vapor trails<br>USE <b>contrails</b>                          |
| GS launch vehicles                                   | RT air jets   | OSL COITIAIIS   |
| . vanguard 2 launch vehicle                          | gas flow  | vapor traps   |
| rocket vehicles                                      | jet flow  | GS traps  |
| . multistage rocket vehicles                         | plasma jets   | . vapor traps   |
| vanguard 2 launch vehicle                            | F   | RT cold traps   |
| RT liquid propellant rocket engines                  | vapor liquid equilibrium                                  | getters   |
| solid propellant rocket engines                      | USE liquid-vapor equilibrium                              | ion traps (instrumentation)                                   |
| Viking rocket vehicle                                |   |   |
| X-248 engine   | vapor phase epitaxy                                       | vaporization heat   |
|  | DEF A crystal growth process whereby an                   | USE heat of vaporization                                      |
| Vanguard 2 satellite                                 | element or a compound is deposited as a thin              |   |
| GS artificial satellites                             | layer on a slice of substrate single crystal mate-        | vaporizers  |
| . meteorological satellites                          | rial by the vapor phase technique.                        | UF vapor generators   |
| Vanguard 2 satellite                                 | GS growth   | GS heating equipment  |
| . Vanguard satellites                                | . crystal growth  | vaporizers  |
| Vanguard 2 satellite                                 | epitaxy   | evaporators   |
| Vanguard 3 satellite                                 | vapor phase epitaxy                                       | RT boilers  |
| GS artificial satellites                             | RT atomic layer epitaxy                                   | cavity vapor generators                                       |
| . geophysical satellites                             | crystal structure<br>liquid phase epitaxy                 | colloidal generators columns (process engineering)            |
| Vanguard 3 satellite                                 | liquid phases   | condensers (liquefiers)                                       |
| . Vanguard satellites                                | liquiu priases  | gas generators  |
| Vanguard 3 satellite                                 | vapor phase lubrication                                   | ∞ generators  |
| . <b>.</b>   | (added August 1996)                                       | ∞ heaters   |
| Vanguard project                                     | DEF The use of an organic liquid that is                  | separators  |
| GS programs  | vaporized into a flowing air stream directed to           | sprayers  |
| . NASA programs                                      | sliding surfaces where lubrication is needed.             | vapor deposition  |
| NASA space programs                                  | The organic vapor reacts at the concentrated              | vaporizing  |
| Vanguard project                                     | contact sliding area generating a lubricous de-           | vapors  |
| . projects   | posit. This deposit has been characterized as a           |   |
| Vanguard project                                     | thin polymeric film that can provide effective            | vaporizing  |
| . space programs                                     | lubrication temperatures greater than 400 de-             | UF volatilization   |
| NASA space programs                                  | grees Celsius.  | GS phase transformations                                      |
| Vanguard project                                     | GS lubrication  | . vaporizing  |
| RT X-405 engine                                      | . v <b>apor phase lubrication</b> RT boundary lubrication | boiling   |
| Vanguard satellites                                  | ,   | film boiling  |
| GS artificial satellites                             | lubrication systems<br>∞ sliding contact                  | nucleate boiling<br>Leidenfrost phenomenon                    |
| . Vanguard satellites                                | squeeze films   | evaporation   |
| Vanguard 1 satellite                                 | tribology   | evaportation  |
| Vanguard 2 satellite                                 | ansoregy  | propellant evaporation  |
| Vanguard 3 satellite                                 | vapor phases  | transpiration   |
| RT geodetic satellites                               | UF gas phases   | flashing (vaporizing)   |
| geophysical satellites                               | RT association reactions                                  | prevaporization   |
| International Geophysical Year                       | critical pressure   | sublimation   |
| meteorological satellites                            | gases   | RT ablation   |
|  | gas-metal interactions                                    | concentrating   |
| vans   | gas-solid interfaces                                      | desalinization  |
| USE trucks   | hydrogen clouds   | distillation  |
|  | liquid phases   | evolution (liberation)  |
| vapor barrier clothing                               | liquid-gas mixtures                                       | gasification  |
| DEF Impermeable garments used with res-              | liquids   | heat of vaporization  |
| pirators as life support systems in toxic environ-   | liquid-vapor interfaces                                   | heating   |
| ments (caustic chemicals, etc.).                     | metal-gas systems   | ∞ separation  |
|  |   | 1027  |

|           | spraying  |          | Latin square method  |           | stellar oscillations                                       |
|-----------|---|----------|--|-----------|--|
|           | stripping (distillation)  |          | race factors   |           |  |
|           | surface reactions   |          | random variables   | variable  | e stream control engines                                   |
|           | vapor deposition  |          | real variables   |           | Advanced, moderate bypass-ratio tur                        |
|           | ·   |          |  |           |  |
|           | vaporizers  |          | social factors   | botan c   | onfigurations that use duct burner thrus                   |
|           | vapors  |          | variability  | augmer    | itation and coannular nozzles for je                       |
|           | volatility  |          | •  |           | eduction.  |
|           | voidanty  | verieble | amulituda laadina  |           |  |
|           |   |          | amplitude loading  | GS        | engines  |
| vapors    |   | (adde    | ed September 1993)   |           | . aircraft engines   |
| DEF       | Gases whose temperatures are below  | GS       | loads (forces)   |           | variable stream control engines                            |
| their cri | tical temperatures, so that they can be   |          | . dynamic loads  | RT 。      | ∘ control  |
|           | sed to the liquid or solid state by increase  |          |  |           |  |
|           |   |          | variable amplitude loading   |           | engine control   |
|           | sure alone.   | RT       | cyclic loads   |           | supersonic aircraft  |
| GS        | vapors  |          | load tests   |           | supersonic nozzles   |
|           | . cesium vapor  | 00       | oloading   |           | variable cycle engines                                     |
|           | . metal vapors  |          | loading rate   |           |  |
|           | mercury vapor   |          |  |           |  |
|           |   |          | random loads   |           | e sweep wings  |
|           | sodium vapor  |          | stress cycles  | UF        | M wings  |
|           | . water vapor   |          | •  |           | ogee wings   |
| RT        | cavity vapor generators   | variable | araa winga   |           | W wings  |
|           | combustion products   |          | area wings   | 00        |  |
|           |   | USE      | trailing edge flaps  | GS        | airfoils   |
|           | condensates   |          |  |           | . wings  |
|           | exhaust gases   | variable | cycle engines  |           | variable sweep wings                                       |
|           | fumes   | UF       | VCE  |           | planforms  |
|           | gases   |          |  |           | •  |
|           |   | GS       | engines  |           | . wing planforms   |
|           | haze detection  |          | . aircraft engines   |           | ∨ariable sweep wings                                       |
|           | hydrogen clouds   |          | variable cycle engines   | RT        | arrow wings  |
|           | liquid-vapor equilibrium  | RT       |  |           | Boeing 733 aircraft  |
|           | prevaporization   | KI       | coaxial nozzles  |           |  |
|           |   |          | convertible fan-shaft engines  |           | delta wings  |
|           | smoke   |          | supersonic aircraft  |           | F-111 aircraft   |
|           | vapor phases  |          | variable stream control engines  |           | folding structures   |
|           | vaporizers  |          | variable stream control engines  |           |  |
|           |   |          |  |           | mission adaptive wings                                     |
|           | vaporizing  | variable | geometry structures  |           | ogee shape   |
|           |   | RT       | expandable structures  |           | swept forward wings  |
| varacto   | or diode circuits   |          | folding structures   |           | sweptback wings  |
| GS        | circuits  |          |  |           | on op to don't mingo                                       |
|           | . varactor diode circuits   |          | inflatable structures  |           |  |
| ОТ        |   |          | mission adaptive wings   | variable  | e thrust   |
| RT        | diodes  | 00       | structures   | GS        | thrust   |
|           |   |          | 0.1.40.14.100  |           | . variable thrust  |
| varacto   | or diodes   |          |  | DT        |  |
| UF        | varactors   | variable | litt   | RT        | control rockets  |
| GS        | electronic equipment  | USE      | lift   |           | high thrust  |
| 00        |   |          |  |           | jet control  |
|           | . diodes  |          |  |           | jet thrust   |
|           | semiconductor diodes  |          | e mass systems   |           | •  |
|           | varactor diodes   | GS       | kinetics   |           | low thrust   |
|           |   |          | . variable mass systems  |           | low thrust propulsion                                      |
|           | . solid state devices   | DT       |  |           | microthrust  |
|           | semiconductor devices   | RT       | equations of motion  |           |  |
|           | varactor diodes   | 00       | mass balance   |           | rocket thrust  |
| RT        | junction diodes   |          | mass distribution  |           | throttling   |
| IXI       | · · · · · · · · · · · · · · · · · · ·   | ~        | systems  |           | thrust augmentation  |
|           | parametric diodes   | ~        | Systems  |           | thrust control   |
|           | varistors   |          |  |           |  |
|           |   | variable | pitch propellers   |           | thrust termination   |
| voranto   | ro  | UF       | constant speed propellers  |           | thrust vector control                                      |
| varacto   |   |          |  |           |  |
| USE       | varactor diodes   | GS       | propellers   |           |  |
|           |   |          | . variable pitch propellers  | ∞ variano | e  |
| variabi   | lity  | RT       | helicopter propeller drive   | SN        | (USE OF A MORE SPECIFIC TERM IS                            |
|           | -   | 17.1     |  |           | RECOMMENDEDCONSULT THE TERMS                               |
| RT        | consistency   |          | pitch (inclination)  |           | LISTED BELOW)  |
|           | continuity  |          |  | DEF       | A measure of the precision of a mea                        |
|           | convergence   | Variable | Specific Impulse Magnetoplasma   |           | nt based on summming the squares of                        |
|           | correlation   | Rocket   | oposino impuiso magnotopiasma  |           |  |
|           |   |          |  |           | viations from individual determination                     |
|           | covariance  | (adde    | ed December 2000)  | from the  | e average and dividing by the degrees of                   |
| c         | ∞ dispersion  | USE      | VASIMR (propulsion system)   | freedom   | 1.   |
|           | eccentricity  |          | ( , , , , , , , , , , , , , , , , , , ,  | RT        |  |
|           | ∞ equilibrium   |          |  | 111       |  |
| c         |   | variable |  |           | degrees of freedom   |
|           | factor analysis   | GS       | celestial bodies   |           | multivariate statistical analysis                          |
|           | heterogeneity   |          | . stars  |           | variance (statistics)                                      |
|           | linearity   |          |  |           | (  |
|           |   |          | variable stars   | _         |  |
|           | nonlinearity  |          | cataclysmic variables  | varianc   | e (statistics)   |
|           | periodic variations   |          | cepheid variables  | GS        | ,  |
|           | quality   |          | •  | 00        | ,  |
|           |   |          | flare stars  |           | . variance (statistics)                                    |
|           | quality control   |          | irregular variable stars   |           | analysis of variance                                       |
|           | range (extremes)  |          | R Coronae Borealis stars   |           | multivariate statistical analysis                          |
|           | regression analysis   |          | Lambda Tauri stars   |           | bivariate analysis   |
|           | reliability   |          |  |           |  |
|           |   |          | Mira variables   |           | covariance   |
|           | sampling  |          | Omicron Ceti star  |           | orthogonality  |
|           | stability   |          | novae  |           | regression analysis  |
|           | standard deviation  |          |  |           | •  |
|           |   |          | dwarf novae  |           | regression coefficients                                    |
|           | standardization   |          | Hercules nova  | RT        |  |
|           | validity  |          | semiregular variable stars   |           | correlation  |
| c         | ∞ variable  |          |  |           | Cramer-Rao bounds  |
|           |   |          | supernovae   |           |  |
|           | variance (statistics)   |          | supernova 1987A  |           | distribution moments                                       |
|           |   |          | symbiotic stars  |           | experiment design  |
| variabl   |   |          | T Tauri stars  |           | factor analysis  |
|           | e   |          | i iddii oldio  |           |  |
| SN        | (USE OF A MORE SPECIFIC TERM IS   | DT       | hinary store   |           |  |
| SN        | (USE OF A MORE SPECIFIC TERM IS   | RT       | binary stars   |           | Gauss-Markov theorem                                       |
| SN        |   | RT       | binary stars companion stars   |           | goodness of fit  |
| SN<br>UF  | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS  | RT       | companion stars  |           | goodness of fit  |
| UF        | (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>factors   | RT       | companion stars eclipsing binary stars   |           | goodness of fit heterogeneity                              |
|           | (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>factors<br>complex variables                        | RT       | companion stars<br>eclipsing binary stars<br>periodic variations                       |           | goodness of fit<br>heterogeneity<br>homogeneity            |
| UF        | (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>factors<br>complex variables<br>dependent variables | RT       | companion stars eclipsing binary stars   |           | goodness of fit heterogeneity                              |
| UF        | (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>factors<br>complex variables                        | RT       | companion stars<br>eclipsing binary stars<br>periodic variations                       |           | goodness of fit<br>heterogeneity<br>homogeneity            |
| UF        | (USE OF A MORE SPECIFIC TERM IS<br>RECOMMENDEDCONSULT THE TERMS<br>LISTED BELOW)<br>factors<br>complex variables<br>dependent variables | RT       | companion stars<br>eclipsing binary stars<br>periodic variations<br>solar oscillations |           | goodness of fit<br>heterogeneity<br>homogeneity<br>kriging |

vector analysis quality control utilizes radiofrequency (RF) power both to genvasoconstrictor drugs range (extremes) erate a high-density plasma in a helicon source Vatican City standard deviation and to accelerate the plasma ions to high velocvariability ity by ion cyclotron resonance heating (ICRH). GS cities Vatican City The system features a magnetic nozzle, which accelerates the plasma particles by converting nations **Vatican City** variation method their azimuthal energy into directed momentum. USE calculus of variations Variable Specific Impulse Europe Magnetoplasma Rocket Italy variational principles GS engines **VATOL** aircraft RT calculus of variations . rocket engines (VERTICAL ATTITUDE TAKEOFF AND . . electric rocket engines ∞ dynamics LANDING AIRCRAFT)

DEF Vertical attitude takeoff and landing aircraft. Used for vertical attitude takeoff-landing equilibrium methods . . . plasma engines . VASIMR (propulsion system) irreversible processes Onsager phenomenological coefficient magnetic nozzles aircraft and XBQM-180A aircraft. plasma heating plasma propulsion Rayleigh-Ritz method vertical attitude takeoff-landing aircraft XBQM-180A aircraft variations radio frequency heating RT ∞ aircraft fluctuation spacecraft propulsion delta wings remotely piloted vehicles GS variations . magnetic variations vertical landing vasoconstriction . . geomagnetic pulsations vertical takeoff aircraft angiotensins ... geomagnetic micropulsations blood vessels . . nocturnal variations VAX computers body temperature . periodic variations GS data processing equipment cold tolerance . alternations . computers . . annual variations . . digital computers reflexes . . diurnal variations ... VAX computers
... VAX-11 series computers sneezing . . intraseasonal variations . . nocturnal variations . . . . VAX-11/780 computer . . secular variations vasoconstrictor drugs . Madden-Julian Oscillation UF pressors VAX-11 series computers . . quasi-biennial oscillation GS drugs GS data processing equipment . vasoconstrictor drugs
. hypertensin
. serotonin
angiotensins . twenty-seven day variation . computers . wind variations . . digital computers alternatives ... VAX computers asymmetry .... VAX-11 series computers deflection pharmacology . . . . VAX-11/780 computer deviation vasopressins differences VAX-11/780 computer displacement GS data processing equipment vasodilation distortion . computers blood vessels divergence . . digital computers body temperature eccentricity gradients ... VAX computers congestion . . . . VAX-11 series computers reflexes micropulsations ..... VAX-11/780 computer vasodilator agents perturbation revisions VC-10 aircraft vasodilator agents substitutes Vickers 1100 aircraft surges (added August 2004) Vickers VC-10 aircraft DFF Drugs used to cause dilation of the GS BAC aircraft variometers blood vessels. . VC-10 aircraft Instruments for comparing magnetic GS druas commercial aircraft forces, especially of the Earth's magnetic field. vasodilator agents . VC-10 aircraft Used for magnetovariographs. acetylcholine jet aircraft magnetovariographs blood circulation VC-10 aircraft GS measuring instruments blood vessels monoplanes . magnetometers vasodilation . VC-10 aircraft . variometers passenger aircraft RT geomagnetism VC-10 aircraft vasomotor nervous system transport aircraft USE nervous system VC-10 aircraft Two electrode semiconductor devices DEF RT ∞ aircraft having a voltage dependent nonlinear resisvasopressins cargo aircraft (added August 2004) tance. Octapeptide antidiuretic hormones re-GS electronic equipment . solid state devices leased by the neurohypophysis of all vertebrates USE variable cycle engines . . semiconductor devices (chemical composition varies with species). .. varistors They control water metabolism and balance by VCO RT resistors regulating lung, gill, kidney, etc., and water loss, voltage controlled oscillators thermistors and also contract smooth muscle. They may also be neurotransmitters. Also included are vector analysis varactor diodes synthetic vasopressin derivatives. Vasopressins GS analysis (mathematics) are used pharmacologically as renal agents, . calculus varnishes fillers vasoconstrictor agents, and hemostatics. .. vector analysis

GS neurotransmitters

. peptides

secretions . endocrine secretions

. . hormones

vasopressins

organic compounds

. vasopressins

vascular system

USE cardiovascular system

primers (coatings)

protective coatings

sprayed coatings

# VASIMR (propulsion system)

finishes

sealers

(added November 2000)

DEF A high-power, RF-driven magneto-plasma rocket system capable of I(sp) thrust modulation at constant power. The VASIMR

. . . pituitary hormones . . . curl (vectors) . vasopressins diuresis geometry hemostatics . vector analysis . . collinearity metabolism . . coplanarity pituitary gland renal function . . curl (vectors)

. . . collinearity

. . . coplanarity

. real variables

. . . collinearity . . . coplanarity

. vorticity

... curl (vectors)

. vorticity

. . vector analysis

. . vorticity Chaplygin equation trees (plants) differential equations Hermitian polynomial Euler-Cauchy equations hodographs vegetation growth flux vector splitting Kakutani theorem GS arowth gradients linear transformations . vegetation growth Poynting theorem . crop growth resultants agriculture vectorcardiography stability derivatives biochemistry GS bioengineering botany . biometrics vector calculus crop vigor . . cardiography ecology USE vector spaces . vectorcardiography fertilizers electrocardiography vector control gravitropism phonocardiography directional control USE hydroponics irrigation vectors (mathematics)
DEF Quantities such as force, velocity, or photosynthetically active radiation phytochrome vector currents RT current algebra acceleration, which have both magnitude and direction at each point in space, as opposed to parity plant physiology radioactive decay plant roots scalar which has magnitude only. Such quantisuperconductivity plant stress ties may be represented geometrically by an soil moisture arrow of length proportional to its magnitude, vector dominance model soil science pointing in the assigned direction. GS models soils GS algebra vector dominance model vegetative index . vector spaces RT hadrons .. vectors (mathematics) high energy interactions vegetative index ... eigenvectors nucleons DEF Linear combinations of spectral band . . . state vectors photoneutrons responses in digital count, reflectance factor, or . . vorticity photoproduction voltage to determine the vigor, greenness and/or dyadics biomass of the vegetation. Observations can be made by satelliteborne, aircraftborne, truck flux vector splitting vector mesons function space GS particles mounted, or hand held spectrometers. Schwartz inequality . elementary particles GS ratios vector quantization . . bosons . indexes (ratios) . . . mesons ... vegetative index . . . . vector mesons Vega launch vehicle ... leaf area index .... rho-mesons UF Vega rocket vehicle . . . normalized difference vegetation GS launch vehicles ... sigma-mesons index Vega launch vehicle . . hadrons RT AgRISTARS project . . . mesons rocket vehicles atmospheric attenuation atmospheric effects atmospheric optics .... vector mesons . multistage rocket vehicles . . . . . rho-mesons Vega launch vehicle RT Atlas D ICBM .... sigma-mesons atmospheric scattering . nuclear particles liquid propellant rocket engines canopies (vegetation) . . bosons color . . . mesons Vega project correction . . . . vector mesons flyby missions crop identification . . . . . rho-mesons Halley's comet crop inventories international cooperation . . . . . sigma-mesons geographic distribution U.S.S.R. space program image enhancement vector processing (computers) Venera satellites imaging techniques (added July 1989) Venus (planet) multispectral band scanners GS data processing radiometric correction vector processing (computers) Vega rocket vehicle reflectance multiprocessing (computers) USE Vega launch vehicle remote sensing parallel processing (computers) satellite imagery pipelining (computers) Vegard-Kaplan bands satellite observation spectral reflectance spectra vector quantization . spectral bands vegetation growth (added June 1989) . Vegard-Kaplan bands coding RT ∞ bands vehicle wheels data compression emission spectra GS wheels digital techniques molecular spectra . vehicle wheels image processing nitrogen . nose wheels vectors (mathematics) aircraft tires voice data processing brakes (for arresting motion) vegetables landing gear GS vegetables vector spaces mechanical drives . potatoes UF Grassmann algebra rollers . spinach vector calculus shafts (machine elements) RT angiosperms GS algebra suspension systems (vehicles) ∞ food . vector spaces leguminous plants tires . . Banach space planting toroidal wheels ... Hilbert space transmissions (machine elements) seeds . Sobolev space wheel brakes . . matrices (mathematics) . . . adjoints vegetation ∞ vehicles . . . canonical forms vegetation (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS . eigenvalues canopies (vegetation) ... eigenvectors bioconversion LISTED BELOW) . . . Hessian matrices biomass energy production craft . . . Jordan form Earth resources rotating vehicles amphibious vehicles stiffness matrix Stokes theorem (vector calculus) normalized difference vegetation Arcas rocket vehicles U spin space Arcon rocket vehicle index .. vectors (mathematics) oases Argo rocket vehicles plants (botany) . eigenvectors Astrobee rocket vehicles Atlas Agena launch vehicles . . . state vectors rain forests

resources

sea grasses

Atlas launch vehicles

automated guideway transit vehicles

. . vorticity

RT analysis (mathematics)

automated mixed traffic vehicles treads solitary waves Automated Transfer Vehicle time measurement veins automated transit vehicles GS anatomy velocity coupling automobiles . circulatory system DEF The response of the burning propellant ballistic vehicles . . cardiovascular system surface to the local velocity which would include boostglide vehicles ... blood vessels both mean flow as well as acoustic velocity (both captured air bubble vehicles ...veins being parallel to the burning surface). control configured vehicles arteries RT burning rate crawler tractors bifurcation (biology) combustion stability drone vehicles transfusion coupling electric hybrid vehicles propellant combustion electric motor vehicles veins (petrology) engines (added June 2001)
DEF A relatively thin mass of mineral that fills a crack or joint in a host rock. velocity distribution Europa launch vehicles velocity fields flight test vehicles velocity profiles inclusions distribution (property) ground effect machines meteoritic composition . velocity distribution heavy lift launch vehicles mineral deposits circulation distribution HOTOL launch vehicle minerals flow distribution hovering rocket vehicles rock intrusions flow velocity hydroplanes (vehicles) rocks galactic rotation hypersonic vehicles Orr-Sommerfeld equations intraorbit transfer vehicles Vela satellites Pohlhausen method Juno launch vehicles artificial satellites pressure distribution Kappa rocket vehicles Vela satellites shock wave profiles Lambda rocket vehicles military spacecraft three dimensional boundary layer launch vehicles Vela satellites low observable reentry vehicles Fishbowl Operation lunar flying vehicles lunar roving vehicles velocity errors high altitude nuclear detection GS errors high altitude tests . velocity errors lunar surface vehicles
Lunokhod lunar roving vehicles
magnetic levitation vehicles
manned lunar surface vehicles escape velocity nuclear explosions nuclear radiation orbital velocity post-blast nuclear radiation position errors radiation detectors Mars roving vehicles Marsokhod Mars roving vehicles radiation measuring instruments velocity fields satellite observation USE velocity distribution military vehicles missiles velocity measurement velardenite motor vehicles USE gehlenite anemometry multiengine vehicles mechanical measurement multistage rocket vehicles . velocity measurement velocity Nike rocket vehicles Rate of motion. Rate of motion in a . . particle image velocimetry Nike-Hydac rocket vehicle straight line is called linear speed, whereas . wind velocity measurement Nike-Iroquois rocket vehicle change of direction per unit time is called anguacceleration measurement Nova launch vehicles lar speed. Used for speed. accelerometers nuclear engine for rocket vehicles speed anemometers orbit transfer vehicles drag force anemometers flow measurement velocity Ranger lunar landing vehicles acoustic velocity recoverable launch vehicles airspeed flow velocity recovery vehicles angular velocity flowmeters hot-film anemometers reentry vehicles critical velocity remotely piloted vehicles hot-wire anemometers . escape velocity research vehicles Hubble constant
Hubble diagram
laser anemometers
laser doppler velocimeters exhaust velocity reusable launch vehicles flow velocity rocket vehicles . solar wind velocity roving vehicles Saturn launch vehicles ground speed group velocity
high speed
hypersonic speed
lapters speed ∞ measurement single stage rocket vehicles pitot tubes single stage to orbit vehicles pressure measurement Skua rocket vehicles radial velocity spacecraft light speed solar wind velocity Standard Launch Vehicles surface effect ships low speed orbital velocity sonic anemometers speed indicators surface vehicles phase velocity stroboscopes SWATH (ship) propagation velocity tachometers tanks (combat vehicles)
Terminal Configured Vehicle Program radial velocity time measurement relativistic velocity Venturi tubes test vehicles rotor speed vortex precession Thor launch vehicles solar velocity Thorad launch vehicles subsonic speed velocity modulation Titan 4 launch vehicle supersonic speed modulation Titan launch vehicles terminal velocity velocity modulation tracked vehicles tip speed bunching tractors transonic speed cavity resonators . wind velocity electron bunching transporter . solar wind velocity electron tubes underwater vehicles impact velocity unidentified flying objects acceleration (physics) velocity profiles Veronique rocket vehicles body kinematics USE velocity distribution water vehicles de Broglie wavelengths ∞ winged vehicles ∞ dynamics veneers Fermat principle RT coatings kinematics finishes vehicular tracks kinetics laminates RT idlers loading rate masonry ∞ motion surface vehicles suspension systems (vehicles) perceptual time constant Venera 2 satellite tracked vehicles pressure measurement GS artificial satellites

relativistic effects

∞ tracks

Soviet satellites

. . Venera satellites

. Venera 2 satellite

interplanetary spacecraft

. Venus probes . . Venera satellites

. Venera 2 satellite

Soviet spacecraft

. Venera satellites

... Venera 2 satellite

unmanned spacecraft . space probes

Venus probes

... Venera satellites

. . . . Venera 2 satellite

### Venera 3 satellite

GS artificial satellites

. Soviet satellites

. . Venera satellites

. . Venera 3 satellite

interplanetary spacecraft

. Venus probes

. . Venera satellites

. Venera 3 satellite Soviet spacecraft

. Venera satellites

. Venera 3 satellite unmanned spacecraft

space probes

Venus probes

... Venera satellites

.... Venera 3 satellite

### Venera 4 satellite

GS artificial satellites

. Soviet satellites

. . Venera satellites

. . Venera 4 satellite

interplanetary spacecraft

. Venus probes

. . Venera satellites

. Venera 4 satellite

Soviet spacecraft

Venera satellites

. Venera 4 satellite

unmanned spacecraft

. space probes

Venus probes

... Venera satellites . . . . Venera 4 satellite

# Venera 5 satellite

GS artificial satellites

. Soviet satellites

. . Venera satellites

. . Venera 5 satellite

interplanetary spacecraft

Venus probes

Venera satellites

. . Venera 5 satellite

Soviet spacecraft

. Venera satellites

. Venera 5 satellite

unmanned spacecraft

. space probes

Venus probes

. . . Venera satellites . . . . Venera 5 satellite

# Venera 6 satellite

GS artificial satellites

. Soviet satellites

Venera satellites

. . Venera 6 satellite

interplanetary spacecraft

. Venus probes

Venera satellites

... Venera 6 satellite

Soviet spacecraft

. Venera satellites

. Venera 6 satellite

unmanned spacecraft

space probes

. . Venus probes

. . . Venera satellites

### Venera 7 satellite

artificial satellites GS

Soviet satellites

. . Venera satellites

. Venera 7 satellite

interplanetary spacecraft

. Venus probes

. . Venera satellites

Venera 7 satellite

Soviet spacecraft

. Venera satellites

. Venera 7 satellite

unmanned spacecraft

. space probes . . Venus probes

. . . Venera satellites

.... Venera 7 satellite

### Venera 8 satellite

GS artificial satellites

. Soviet satellites

. . Venera satellites

. . Venera 8 satellite

interplanetary spacecraft

. Venus probes

. Venera satellites

Venera 8 satellite

Soviet spacecraft

Venera satellites

. Venera 8 satellite

unmanned spacecraft . space probes

. . Venus probes

. . . Venera satellites

Venera 8 satellite

U.S.S.R. space program Venus (planet)

### Venera 9 satellite

DEF One in a series of Soviet Spacecraft to probe the environment near and on the planet Venus.

artificial satellites

. Soviet satellites

. . Venera satellites

. Venera 9 satellite

interplanetary spacecraft

. Venus probes

. Venera satellites

. Venera 9 satellite

Soviet spacecraft

Venera satellites

Venera 9 satellite

unmanned spacecraft

. space probes . . Venus probes

... Venera satellites

. . . . Venera 9 satellite

# Venera 10 satellite

One in a series of Soviet spacecraft to probe the environment near and on the planet

Venus. GS

artificial satellites

. Soviet satellites . . Venera satellites

. Venera 10 satellite

interplanetary spacecraft Venus probes

. . Venera satellites

. Venera 10 satellite

Soviet spacecraft

Venera satellites . Venera 10 satellite

unmanned spacecraft

. space probes

.. Venus probes

... Venera satellites

Venera 10 satellite

U.S.S.R. space program Venus (planet)

### Venera 11 satellite

One in a series of Soviet spacecraft to probe the environment near and on the planet Venus.

GS artificial satellites

. Soviet satellites

. . Venera satellites . Venera 11 satellite

interplanetary spacecraft . Venus probes

Venera satellites

. Venera 11 satellite

Soviet spacecraft

. Venera satellites

Venera 11 satellite unmanned spacecraft

. space probes

. . Venus probes

. . . Venera satellites . Venera 11 satellite

U.S.S.R. space program

Venus (planet) Venus atmosphere

Venus surface

### Venera 12 satellite

One in a series of Soviet spacecraft to probe the environment near and on the planet . Venus.

artificial satellites

. Soviet satellites

. . Venera satellites

. . Venera 12 satellite

interplanetary spacecraft

. Venus probes

. Venera satellites

Soviet spacecraft

. Venera satellites

. Venera 12 satellite

unmanned spacecraft space probes

. . Venus probes

. . . Venera satellites Venera 12 satellite

U.S.S.R. space program Venus (planet) Venus atmosphere

Venus surface

Venera satellites GS artificial satellites

. Soviet satellites . . Venera satellites

Venera 2 satellite

Venera 3 satellite

Venera 4 satellite Venera 5 satellite

Venera 6 satellite Venera 7 satellite

Venera 8 satellite

Venera 9 satellite

... Venera 10 satellite Venera 11 satellite

. . Venera 12 satellite

interplanetary spacecraft

. Venus probes

. Venera satellites . . . Venera 2 satellite

Venera 3 satellite

Venera 4 satellite

Venera 5 satellite Venera 6 satellite

Venera 7 satellite

Venera 8 satellite Venera 9 satellite

Venera 10 satellite Venera 11 satellite

Venera 12 satellite Soviet spacecraft

Venera satellites Venera 2 satellite

Venera 3 satellite Venera 4 satellite

Venera 5 satellite Venera 6 satellite

Venera 7 satellite . . Venera 8 satellite

Venera 9 satellite

. . Venera 10 satellite . . Venera 11 satellite . Venera 12 satellite

unmanned spacecraft

. space probes . . Venus probes

... Venera satellites . Venera 2 satellite

. . . . Venera 3 satellite . . . . Venera 4 satellite

. . . . Venera 5 satellite

.... Venera 6 satellite

1042

|          | Venera 6 satellite               | vents  | planetary atmospheres                              |
|----------|----------------------------------|--|--|
|          | Venera 7 satellite               |  | Venus atmosphere                                   |
|          | Venera 8 satellite               | ventral sections                               | Venus clouds                                       |
|          | Venera 9 satellite               | RT abdomen                                     | RT aerospace environments                          |
|          | Venera 10 satellite              |  | ionopause  |
|          |                                  | vents  |  |
|          | Venera 11 satellite              | GS outlets                                     | planetary ionospheres                              |
| ът.      | Venera 12 satellite              |  | planetary meteorology                              |
| RT       | U.S.S.R. space program           | . vents  | Venera 11 satellite                                |
|          | Vega project                     | RT annular ducts                               | Venera 12 satellite                                |
|          |                                  | apertures                                      | Venus orbiting imaging radar                       |
| Vanazia  | ano model                        | cavities                                       | (spacecraft)                                       |
|          | models                           | chimneys                                       | ,  |
| GS       |                                  | cooling systems                                | Venus clouds                                       |
|          | . mathematical models            | ducts  | GS environments                                    |
|          | Veneziano model                  | evacuating (vacuum)                            | . extraterrestrial environments                    |
| RT       | elementary particle interactions | ,  |  |
|          |                                  | exhaust systems                                | planetary environments                             |
| Vananu   | ala                              | flues  | planetary atmospheres                              |
| Venezu   |                                  | gates (openings)                               | Venus atmosphere                                   |
| GS       | nations                          | louvers  | Venus clouds                                       |
|          | . Venezuela                      | ∞ nozzles                                      | RT atmospheric models                              |
| RT       | South America                    | openings                                       | cloud cover  |
|          |                                  | ports (openings)                               | cloud physics                                      |
| VI       |                                  |  |  |
|          | iagrams                          | relief valves                                  | ∞ clouds   |
| GS       | diagrams                         | slotted wind tunnels                           | greenhouse effect                                  |
|          | . Venn diagrams                  | ventilation                                    |  |
| RT       | analysis (mathematics)           | ventilators                                    | Venus fly trap rocket vehicle                      |
|          | geometry                         | venting  | GS rocket vehicles                                 |
|          | mathematical logic               | windows (apertures)                            | . sounding rockets                                 |
|          | mathematical logic               | wildows (apertules)                            | Venus fly trap rocket vehicle                      |
|          |                                  | Venture Cter Journel webiele                   | RT cosmic dust                                     |
| Venom    | aircraft                         | VentureStar launch vehicle                     |  |
| USE      | DH 112 aircraft                  | (added June 1999)                              | extraterrestrial matter                            |
| 002      | DIT TIE diffordit                | DEF Reusable single-stage-to-orbit laur        | nch  |
|          |                                  | vehicle employing linear aerospike engines, a  | and Venus orbiting imaging radar (spacecraft)      |
| ventilat | ion                              | having a payload capacity roughly equivalent   |  |
| RT       | air conditioning                 | that of the Space Shuttle; developed in coo    |  |
|          | air cooling                      | nation with the X-33 advanced technology de    |  |
|          | air filters                      | 0,   | surface of Venus as well as information on the     |
|          | air flow                         | onstrator vehicle.                             |  |
|          |                                  | GS aerospace vehicles                          | gravity field of the planet, nature of its inertia |
|          | air intakes                      | . aerospace planes                             | composition and dynamics of its atmospher          |
|          | air purification                 | VentureStar launch vehicle                     | and interaction with the solar wind.               |
|          | blowers                          | maneuverable spacecraft                        | GS radar   |
|          | comfort                          | . aerospace planes                             | . Venus orbiting imaging radar                     |
|          | cooling                          | VentureStar launch vehicle                     | (spacecraft)                                       |
|          | cooling systems                  |  | RT Magellan project (NASA)                         |
|          | draft (gas flow)                 | reentry vehicles                               | 0 1 , ( )  |
|          |                                  | . recoverable spacecraft                       | Magellan spacecraft (NASA)                         |
|          | ducts                            | reusable spacecraft                            | synthetic aperture radar                           |
|          | environmental engineering        | aerospace planes                               | Venus atmosphere                                   |
|          | exhaust systems                  | VentureStar launch vehicle                     | Venus probes                                       |
|          | exhausting                       | soft landing spacecraft                        | Venus surface                                      |
|          | life support systems             |  | Volido dulidod                                     |
|          | refrigerating                    | . aerospace planes                             | Vanue probas                                       |
|          |                                  | VentureStar launch vehicle                     | Venus probes                                       |
|          | temperature                      | RT aerospike engines                           | GS interplanetary spacecraft                       |
|          | temperature control              | commercial spacecraft                          | . Venus probes                                     |
|          | temperature distribution         | X-33 reusable launch vehicle                   | Magellan spacecraft (NASA)                         |
|          | ventilators                      |  | . Mariner 1 space probe                            |
|          | venting                          | Venturi tubes                                  | Mariner 2 space probe                              |
|          | vents                            |  |  |
|          | vents                            | DEF Short tubes of smaller diameter in         |  |
|          |                                  | middle than at the ends. When fluids fl        |  |
| ventilat | ion fans                         | through such tubes, the pressure decreases     |  |
| RT       | blowers                          | the diameters become smaller, the amount       | t of Pioneer Venus 2 entry probes                  |
|          | cooling                          | decrease being proportional to the speed of fl | low Pioneer Venus 2 night probe                    |
|          | •                                | and the amount of restriction.                 | Pioneer Venus 2 sounder probe                      |
|          | cooling systems                  | RT ∞ detectors                                 | Pioneer Venus 2 transporter bus                    |
|          | ducted fans                      |  | Venera satellites                                  |
|          | fan blades                       | flow measurement                               |  |
| 0        | ∘ fans                           | flowmeters                                     | Venera 2 satellite                                 |
|          | ventilators                      | gas meters                                     | Venera 3 satellite                                 |
|          |                                  | measuring instruments                          | Venera 4 satellite                                 |
|          |                                  | orifices                                       | Venera 5 satellite                                 |
| ventilat |                                  | pitot tubes                                    | Venera 6 satellite                                 |
| RT       | air ducts                        | pressure gradients                             | Venera 7 satellite                                 |
|          | air intakes                      | . •  | Venera 8 satellite                                 |
|          | blowers                          | pressure measurement                           |  |
|          | ∘ diffusers                      | ∞ tubes  | Venera 9 satellite                                 |
| -        | exhaust systems                  | velocity measurement                           | Venera 10 satellite                                |
|          |                                  |  | Venera 11 satellite                                |
|          | ventilation                      | Venus (planet)                                 | Venera 12 satellite                                |
|          | ventilation fans                 | GS celestial bodies                            | Zond 1 space probe                                 |
|          | vents                            | . planets                                      | Zond 3 space probe                                 |
|          |                                  |  | Zond 3 space probe                                 |
| Von4!    | i                                | terrestrial planets                            |  |
| venting  | •                                | Venus (planet)                                 | Zond 5 space probe                                 |
| RT       |                                  | RT planetary craters                           | Zond 6 space probe                                 |
|          | cooling                          | Vega project                                   | Zond 7 space probe                                 |
| 0        | ∘ discharge                      | Venera 8 satellite                             | Zond 8 space probe                                 |
|          | evacuating (vacuum)              | Venera 10 satellite                            | unmanned spacecraft                                |
|          | exhausting                       |  | . space probes                                     |
|          |                                  | Venera 11 satellite                            |  |
|          | flushing                         | Venera 12 satellite                            | Venus probes                                       |
|          | purging                          |  | Magellan spacecraft (NASA)                         |
|          | releasing                        | Venus atmosphere                               | Mariner 1 space probe                              |
|          | relief valves                    | GS environments                                | Mariner 2 space probe                              |
| 0        | ∘ separation                     | . extraterrestrial environments                | Mariner 5 space probe                              |
|          | ventilation                      | planetary environments                         | Mariner 10 space probe                             |
|          | voridiation                      | Planetary environments                         | Manner to space probe                              |

|          | Pi                                      |   | 1  |          |                                   |
|----------|---|---|--|----------|-----------------------------------|
|          | Pioneer Venus 2 spacecraft              |   | mica                                     |          | schools (fish)                    |
|          | Pioneer Venus 2 entry probes            |   | packaging                                |          | sharks                            |
|          | Pioneer Venus 2 night probe             |   | silicates                                |          | mammals                           |
|          | Pioneer Venus 2 sounder                 |   |  |          | bats                              |
|          | probe                                   | Vermon                                  | t  |          | bears                             |
|          | Pioneer Venus 2 transporter bus         | GS                                      | nations                                  |          | cats                              |
|          | Venera satellites                       |   | . United States                          |          | cattle                            |
|          | Venera 2 satellite                      |   | Vermont                                  |          | calves                            |
|          | Venera 3 satellite                      | RT                                      | Lake Champlain Basin (NY-VT)             |          | deer                              |
|          | Venera 4 satellite                      | • | St Lawrence Valley (North America)       |          | caribous                          |
|          | Venera 4 satellite                      |   | of Lawrence valley (North America)       |          | goats                             |
|          | Venera 6 satellite                      | Vornoui                                 | l process                                |          | 9                                 |
|          |   |   | Method of single-crystal growth in       |          | horses                            |
|          | Venera 7 satellite                      |   | powder is dropped through an oxy-        |          | marine mammals                    |
|          | Venera 8 satellite                      |   |  |          | dolphins                          |
|          | Venera 9 satellite                      |   | n flame, falling molten on crystal seed. |          | manatees                          |
|          | Venera 10 satellite                     | GS                                      | growth                                   |          | porpoises                         |
|          | Venera 11 satellite                     |   | . crystal growth                         |          | seals (animals)                   |
|          | Venera 12 satellite                     |   | Verneuil process                         |          | whales                            |
|          | Zond 1 space probe                      | RT                                      | Czochralski method                       |          | moles                             |
|          | Zond 3 space probe                      |   | ruby lasers                              |          | primates                          |
|          | Zond 4 space probe                      |   |  |          | apes                              |
|          | Zond 5 space probe                      | Vernier                                 | engines                                  |          | chimpanzees                       |
|          | Zond 6 space probe                      | DEF                                     | Rocket engines of small thrust used      |          | baboons                           |
|          | Zond 7 space probe                      | primarily                               | to obtain a fine adjustment in the       |          | human beings                      |
|          | Zond 8 space probe                      | velocity                                | and trajectory of a rocket vehicle just  |          | monkeys                           |
| RT       | Magellan project (NASA)                 | after the                               | thrust cutoff of the last sustainer en-  |          | rodents                           |
|          | Mariner program                         | gine, ar                                | d used secondarily to add thrust to a    |          | guinea pigs                       |
|          | Mariner Venus 67 spacecraft             |   | or sustainer engine.                     |          | hamsters                          |
|          | Mars probes                             |   | engines                                  |          | mice                              |
|          |   | 00                                      | . rocket engines                         |          |                                   |
|          | outer planets explorers                 |   | Vernier engines                          |          | jerboas                           |
|          | Sputnik 5 satellite                     |   |  |          | knockout mice                     |
|          | Venus orbiting imaging radar            |   | control rockets                          |          | pocket mice                       |
|          | (spacecraft)                            |   | SYNCOM apogee engines                    |          | rabbits                           |
|          | Voyager project                         |   | . torpedo engines                        |          | rats                              |
|          |   |   | Vernier engines                          |          | squirrels                         |
| Venus    | radar echoes                            |   | control rockets                          |          | ground squirrels                  |
| GS       | echoes                                  |   | SYNCOM apogee engines                    |          | dogs                              |
|          | . radar echoes                          | RT                                      | electric rocket engines                  |          | sheep                             |
|          | Venus radar echoes                      |   | electrostatic engines                    |          | swine                             |
|          |   |   | hybrid propellant rocket engines         |          | wolves                            |
| Venus    | Radar Mapper                            |   | internal combustion engines              |          | reptiles                          |
| USE      | Magellan spacecraft (NASA)              |   | launch vehicles                          |          | lizards                           |
| 002      | magonan opacocrati (10.1071)            |   | liquid propellant rocket engines         |          | snakes                            |
| Venus    | Radar Mapper Project                    |   | MA-2 engine                              |          | turtles                           |
| USE      | Magellan project (NASA)                 |   | MA-3 engine                              | DT       |                                   |
| OOL      | magenan project (NAOA)                  |   | MA-5 engine                              | RT       | homeotherms                       |
| Vonus    | surface                                 |   |  | vertical |                                   |
|          |   |   | microrocket engines                      |          | air currents                      |
|          | The surface features and/or composi-    |   | restartable rocket engines               | UF       | updrafts                          |
|          | the planet Venus.                       |   | solid propellant rocket engines          | GS       | fluid flow                        |
| GS       |   |   | thrust vector control                    |          | . gas flow                        |
|          | . Venus surface                         |   |  |          | air flow                          |
| RT       | cloud cover                             | vernine                                 |  |          | air currents                      |
|          | extraterrestrial environments           | USE                                     | guanosines                               |          | vertical air currents             |
|          | Magellan project (NASA)                 |   |  | RT       | atmospheric circulation           |
|          | Magellan spacecraft (NASA)              | Veroniq                                 | ue rocket vehicles                       |          | convection clouds                 |
|          | planetary craters                       | GS                                      | rocket vehicles                          |          | convection currents               |
|          | solar system                            |   | . single stage rocket vehicles           |          | downbursts                        |
|          | ∞ surfaces                              |   | Veronique rocket vehicles                |          | lee waves                         |
|          | terraforming                            |   | sounding rockets                         |          | microbursts (meteorology)         |
|          | topography                              |   | Veronique rocket vehicles                |          | mixing height                     |
|          | Venera 11 satellite                     | RT                                      | liquid propellant rocket engines         |          | soaring                           |
|          | Venera 12 satellite                     |   | vehicles                                 |          | 9                                 |
|          | Venus orbiting imaging radar            |   | Veriloids                                |          | turbulence                        |
|          | 0 0 0                                   | versatil                                | itv                                      |          | wind (meteorology)                |
|          | (spacecraft)                            |   | compatibility                            |          | winds aloft                       |
| vorbol   | communication                           | 101                                     | flexibility                              |          |                                   |
|          |   |   | ilexibility                              |          | attitude takeoff-landing aircraft |
| GS       | communicating                           | vantalan                                | _  | USE      | VATOL aircraft                    |
|          | verbal communication                    | vertebra                                |  |          |                                   |
|          | conversation                            | GS                                      | anatomy                                  |          | distribution                      |
| RT       | acoustics                               |   | . musculoskeletal system                 | GS       | distribution (property)           |
|          | languages                               |   | bones                                    |          | . spatial distribution            |
|          | lectures                                |   | spine                                    |          | vertical distribution             |
|          | phonetics                               |   | vertebrae                                |          | star distribution                 |
|          | telephony                               | RT                                      | intervertebral disks                     | RT       | electron distribution             |
|          | voice communication                     |   | neck (anatomy)                           |          | horizontal distribution           |
|          | voice data processing                   |   |  |          | ion distribution                  |
|          | words (language)                        | vertebra                                | l column                                 |          | pressure distribution             |
|          | · 3 0 /                                 | USE                                     | spine                                    |          | radiation distribution            |
| verifica | ation (proving)                         | -                                       | -  |          | temperature distribution          |
|          | proving                                 | vertebra                                | ates                                     |          | wind profiles                     |
| JUL      | F 1                                     | GS                                      | animals                                  |          | will bromes                       |
| vermic   | ulite                                   | 33                                      | . vertebrates                            | vortical | fine                              |
|          |   |   |  | vertical |                                   |
|          | An aggregate used in lightweight insu-  |   | amphibia                                 | USE      | fins                              |
|          | concrete, formed by heating and expand- |   | frogs                                    |          | flimb4                            |
|          | nicaceous mineral.                      |   | birds                                    | vertical |                                   |
| GS       | ,                                       |   | chickens                                 | RT       | balloon flight                    |
|          | . vermiculite                           |   | pigeons                                  |          | climbing flight                   |
|          | minerals                                |   | turkeys                                  | ~        | flight                            |
|          | . vermiculite                           |   | waterfowl                                |          | flight paths                      |
| RT       | insulation                              |   | fishes                                   |          | hovering                          |
|          |   |   |  |          | •                                 |

rocket flight transition flight V/STOL aircraft

### vertical junction solar cells

Solar cells made from wafers on which narrow grooves are formed using a preferential KOH etch. The grooved region is radiation tol-

GS electric generators

. direct power generators

. . photoelectric generators

... photovoltaic cells

... solar cells

. vertical junction solar cells

. solar generators

. . solar cells

. . vertical junction solar cells

electronic equipment . solid state devices

. . semiconductor devices

... photovoltaic cells

.... solar cells

... vertical junction solar cells

photoelectric cells

. photovoltaic cells . . solar cells

. . vertical junction solar cells

RT wafers

vertical landing

vertical takeoff and landing UF

VTOL

GS landing

vertical landing

aircraft landing

spacecraft landing STOVL aircraft touchdown VATOL aircraft

### vertical motion

RT falling ∞ motion touchdown

# vertical motion simulators

Vibration machines which produce mechanical oscillations parallel to the vertical axis.

simulators . vibration simulators

. . vertical motion simulators

RT ∞ motion shakers

> shock simulators vibratory loads

### vertical orientation

The attitude of an object in reference to a plane which is parallel to the direction of gravity (determined with a plumbline).

RT alignment attitude (inclination) directional stability

dynamic stability horizontal orientation

lateral stability ∞ orientation stabilization

### vertical perception

GS perception

sensory perception

vertical perception

body sway test gravireceptors

oculogravic illusions

 orientation otolith organs

vestibular tests

vertical stabilizers

USE stabilizers (fluid dynamics)

stabilizers (fluid dynamics) USE tail assemblies

### vertical takeoff

vertical takeoff and landing

VTOL

takeoff GS

. vertical takeoff

### vertical takeoff aircraft

VTOL aircraft

V/STOL aircraft

. vertical takeoff aircraft

. . flying platforms

.. SC-1 aircraft .. VJ-101 aircraft

.. VZ-8 aircraft

. . X-13 aircraft

. . X-14 aircraft

. . X-19 aircraft

X-22 aircraft

. . X-22A aircraft

XC-142 aircraft . . XV-4 aircraft

. XV-11A aircraft

RT ∞ aircraft

Bell 214A helicopter

CF-700 engine circulation control rotors compound helicopters

convertible fan-shaft engines

Cushioncraft ground effect machine

fan in wing aircraft GETOL aircraft

helicopters

lift fans

lifting rotors

∞ military aircraft

powered lift aircraft

research aircraft

rotary wing aircraft

short takeoff aircraft

subsonic aircraft T-58 engine

tilt wing aircraft

vertical takeoff

VATOL aircraft ∞ winged vehicles

vertical takeoff and landing USE vertical landing

vertices

USE apexes

The sensation that the outer world is DEF revolving about the person (objective vertigo) or that he himself is moving in space (subjective vertigo). The word frequently is used erroneously as a synonym for dizziness or giddiness to indicate an unpleasant sensation of disturbed relations to surrounding objects in space.

GS signs and symptoms

vertigo

Barany chair ear pressure test vestibular tests

### Vertikal rockets

(added August 1995)

rocket vehicles

sounding rockets

Vertikal rockets rocket sounding

Russian Space Program

Vertol military helicopters

# USE Boeing aircraft

very high frequencies

(30 TO 300 MHZ) frequencies

. radio frequencies

... very high frequencies

. P band decametric waves

low frequencies

maximum usable frequency

# very high frequency radio equipment

ultra short wave radio equipment GS

radio equipment

very high frequency radio equipment

RT radio astronomy ultrahigh frequencies

very high speed integrated circuits

USE VHSIC (circuits)

Very Large Array (VLA)

DEF A synthetic aperture radio telescope, consisting of 27 parabolic antennas each of which is 25 meters in diameter. The system when connected together is capable of arcsecond resolution with high sensitivity resulting in the world's most powerful radio telescope. Operated by the National Radio Astronomy Observatory, it is located in Socorro, New Mexico.

radio equipment

. radio telescopes

. Very Large Array (VLA)

telescopes

. radio telescopes

Very Large Array (VLA)

antenna arrays radio astronomy

very large scale integration

DEF A very complex integrated circuit, which contains ten thousand or more individual devices, such as basic logic gates and transistors, placed on a single semiconductor chip. Used for VLSI.

UF VLSI

GS circuits

. integrated circuits

. very large scale integration

microelectronics

very large scale integration

application specific integrated circuits architecture (computers)

chips (electronics) hardware description languages large scale integration

molecular electronics RISC processors

systolic arrays very large transport aircraft (added November 1998)

DEF Aircraft capable of a maximum takeoff weight greater than 400 metric tons (881,600 lbs) or having a seating capacity greater than

660.

UF VLTA (aircraft) GS

transport aircraft very large transport aircraft

cargo aircraft passenger aircraft

very long base interferometry
DEF The simultaneous observation of radio sources by two radio telescopes spaced very far apart to enhance angular resolution. The signals are recorded on magnetic tapes and combined electronically on a computer. Used for VLBI.

UF VĹBI GS

interferometry

. very long base interferometry astronomical interferometry

diffraction patterns

etalons interferometers

null zones

Quasat

radio astronomy radio interferometers

Very Long Baseline Array (VLBA)

Very Long Baseline Array (VLBA)

A transcontinental radio telescope, being developed by the National Radio Astronomy Observatory, to consist of ten dedicated and automated 25-meter (82 foot) diameter antennas distributed from Hawaii to St. Croix, Virgin

Islands. GS radio equipment

. radio telescopes

Very Long Baseline Array (VLBA)

telescopes

. radio telescopes

.. Very Long Baseline Array nodes (standing waves) surgery (VLBA) nutation antenna arrays VFR (rules) oscillating cylinders USE visual flight rules radio astronomy oscillations very long base interferometry oscillators VHDL (computers) resonance USE hardware description languages very low frequencies shaking (3 TO 30 KHZ) frequencies shock resistance VHF omnirange navigation spacecraft motion . radio frequencies omnirange navigation standing waves VOR systems vibrational stress .. low frequencies GS navigation . . very low frequencies vibratory loads . radio navigation vibratory polishing audio frequencies Earth-ionosphere waveguide . VHF omnirange navigation ∞ waves RT air navigation wing oscillations navigation aids very small aperture terminals radio direction finders vibration dampers USE VSAT (network) solar compasses USE vibration isolators vessels VHSIC (circuits) (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN vibration damping DEF Chips being developed by a DOD pro-GS damping gram to provide high speed MIL spec VLSI vibration damping RT blood vessels device for use in military systems. Used for very acoustics ∞ capsules high speed integrated circuits. attenuation fluid filled shells very high speed integrated circuits DAST program liquid filled shells GS circuits elastic damping navy . integrated circuits flexible spacecraft pressure vessels . VHSIC (circuits) gyrodampers ships chips (electronics) harmonic control large scale integration magnetic damping Vesta asteroid signal processing magnetorheological fluids celestial bodies molecular relaxation . asteroids viability nonoscillatory action animals . Vesta asteroid nonstabilized oscillation carbon cycle asteroid belts piezoelectric actuators meteoroids crop vigor shock absorbers solar system germination smart materials space debris growth plants (botany) vibration effects seeds vestibular nystagmus vibration effects GS eye movements . POGO effects vibration . nystagmus RT ∞ effects DEF Motion due to a continuous change in vestibular nystagmus support interference the magnitude of a given force which reverses reflexes vibrational stress its direction with time. Motion of an oscillating . vestibular nystagmus body during one complete cycle; two oscilla-RT anatomy vibration isolators tions. Used for jitter. eye (anatomy) Resilient supports that tend to isolate jitter ophthalmology systems from steady state excitation. Used for GS vibration vibration dampers and vibration protection. . combustion vibration vestibular tests vibration dampers forced vibration physiological tests GS vibration protection free vibration vestibular tests GS isolators . lattice vibrations body sway test . vibration isolators POGO effects Coriolis effect RT ∞ absorbers . random vibration ear pressure test acoustic retrofitting resonant vibration head down tilt cushions . structural vibration head movement ∞ dampers . . bending vibration vertical perception dampers (valves) . . breathing vibration vertigo damping . . flutter energy absorption noise reduction . . . panel flutter vestibules subsonic flutter oscillation dampers GS anatomy supersonic flutter . sense organs shock absorbers transonic flutter . . ear springs (elastic) linear vibration . . . labyrinth suspension systems (vehicles) . . missile vibration ... vestibules . . self induced vibration RT morphology vibration measurement ... panel flutter passageways mechanical measurement subsonic flutter semicircular canals vibration measurement . . . supersonic flutter cepstral analysis . transonic flutter vests damping tests . . torsional vibration clothing frequency analyzers RT acoustics frequency measurement garments airfoil oscillations ∞ measurement amplitudes stress measurement veterinary medicine antinodes The branch of medical practice dealing compacting vibration meters with the treatment of diseases and injuries of cyclic loads animals. displacement UF vibrometers measuring instruments GS medical science dynamics veterinary medicine . vibration meters elastic waves . . seismographs RT ∞ biology fatigue (materials) . . lunar seismographs diagnosis flapping harmonics accelerometers diseases epidemiology isolators transducers immunology mechanical oscillators iniuries mechanical shock vibration mode DEF In a system undergoing vibration, a characteristic pattern assumed by the system in ∞ medicine mistuning (turbomachinery)

modes (standing waves)

∞ motion

which the motion of every particle is simple

pathology

pharmacology

MODES/CONDITIONS OF STRUCTURES OR VEHICLES) level (quantity) harmonic with the same frequency. Used for television systems mode of vibration. video signals mode of vibration energy levels video compression GS modes . . molecular energy levels (added September 1993) . vibration mode . . vibrational states compressed video . uncoupled modes molecular properties
. molecular energy levels
. vibrational states airfoil oscillations data compression free vibration . video compression linear vibration analog data molecular excitation mode transformers digital data vibrational spectra digital television transverse waves discrete cosine transform vibrational stress image motion compensation vibration perception GS stresses perception image processing vibrational stress . sensory perception signal encoding RT flutter video conferencing vibration perception vibration video data vibration effects vibration protection video signals vibratory loads USE vibration isolators video conferencing vibratory loads (added August 2000) vibration simulators loads (forces) vibration testing machines UF video teleconferencing . dynamic loads telecommunication simulators . . vibratory loads aerodynamic loads . teleconferencing . vibration simulators . . video conferencing . vertical motion simulators cvclic loads . video communication RT flutter structural design criteria ∞ machinery . . video conferencing vertical motion simulators RT communication networks shakers vibration shock simulators conferences vibration simulators vibratory loads television systems vibrational stress video compression vibration testing machines video data vibratory polishing USE vibration simulators polishing vibratory polishing video data RT analog data vibration tests metallography ∞ data vibration tests GS vibration data converters . damping tests data transmission . stroking tests vibrocardiography digital data destructive tests USE phonocardiography display devices dynamic tests high definition television electronic equipment tests vibrometers multimedia engine tests USE vibration meters radar data environmental tests smear flight tests VIC method telecommunication flutter USE vortex in cell technique television systems video compression mechanical engineering oscillations Vickers 1100 aircraft video conferencing resonance testing USE VC-10 aircraft video disks shock tests stability tests video signals Vickers hardness static tests (added October 2001) video disks structural vibration The hardness of a material as deter-DEF Disks, usually the size of long-playing stereo records, which store video data. The data ∞ tests mined by the Vickers hardness test, which interprets the degree of penetration made by a is recorded by one of two techniques: the ca-pacitance method, in which the disk has spiral grooves and is read by a contact stylus, and the optical method, which uses lasers in both the load-variable diamond pyramid stylus. vibrational freezing diamond pyramid hardness phase transformations GS mechanical properties . freezing GS .. vibrational freezing . hardness recording and playback of the data. Vickers hardness GS documents vibrational frequencies (molecular) hardness tests . records vibrational spectra . video disks Vickers Scimitar aircraft data recorders USE Scimitar aircraft vibrational frequencies (structural) data recording USE resonant frequencies data storage Vickers Valiant aircraft vibrational relaxation USE Valiant aircraft disks (shapes) USE molecular relaxation magnetic disks Vickers VC-10 aircraft memory (computers) USE VC-10 aircraft optical data storage materials vibrational spectra optical disks vibrational frequencies (molecular) Victor MK-1 aircraft optical memory (data storage) GS molecular properties GS attack aircraft playbacks . molecular spectra . bomber aircraft video data . vibrational spectra . Victor MK-1 aircraft video equipment spectra Handley Page aircraft . molecular spectra Victor MK-1 aircraft video equipment .. vibrational spectra jet aircraft video equipment . radiation spectra Victor MK-1 aircraft . picture tubes . . electromagnetic spectra monoplanes video tape recorders . vibrational spectra Advanced Vidicon Camera System Victor MK-1 aircraft electronic spectra reconnaissance aircraft (AVCS) energy spectra audio visual equipment Victor MK-1 aircraft molecular relaxation RT ∞ aircraft camera tubes Raman spectra cathode ray tubes rotational spectra video communication compensators vibrational states GS telecommunication digital cameras display devices flying spot scanners . video communication vibrational states . video conferencing (added December 1993) high definition television motion pictures RT (LIMITED TO MOLECULAR ENERGY LEVELS - EXCLUDES VIBRATION

multimedia

optical equipment

|           | oscilloscopes   |                 | radiant flux density                  |        | space flight                               |
|-----------|---|-----------------|---------------------------------------|--------|--|
|           | recording heads   |                 | radiation measuring instruments       |        |  |
|           | television equipment  |                 | radiative heat transfer               | _      | lander 2                                   |
|           | video disks   |                 | viewing                               | GS     | interplanetary spacecraft . Mars probes    |
|           | vidicons  | . danda a       |                                       |        | Viking spacecraft                          |
| video la  | andmark acquisition and tracking                              | viewing<br>GS   | viewing                               |        | Viking 2 spacecraft                        |
| DEF       | Shuttle era system for earth-feature                          | 00              | . field of view                       |        | Viking lander 2                            |
|           | ation, acquisition, and tracking.                             | RT              | display devices                       |        | Viking lander spacecraft                   |
| GS        | tracking (position)   |                 | periscopes                            |        | Viking lander 2                            |
|           | . video landmark acquisition and                              |                 | view effects                          |        | unmanned spacecraft                        |
| RT        | tracking avionics   |                 | visibility                            |        | . space probes Mars probes                 |
| 17.1      | image correlators   |                 | vision                                |        | Viking spacecraft                          |
|           | map matching guidance   | \               | - to-o-fi                             |        | Viking 2 spacecraft                        |
|           | scene analysis  | Vigilante       | A-5 aircraft                          |        | Viking lander 2                            |
|           | signatures  | USL             | A-3 all clait                         |        | Viking lander spacecraft                   |
|           | TERCOM  | vianottii       | 24                                    |        | Viking lander 2                            |
|           | terrain analysis  | vignettii<br>RT | defects                               | RT     | , , ,                                      |
|           | tracking filters  | 111             | focusing                              |        | Mars surface samples space exploration     |
| video s   | ignals  |                 | lenses                                |        | space exploration space flight             |
| DEF       | Signals with a bandwidth of over 20                           |                 |                                       |        | opado mg. n                                |
| kilohertz |   | Viking 1        | spacecraft                            |        | lander spacecraft                          |
| RT        | signal processing   | GS              | interplanetary spacecraft             | GS     | interplanetary spacecraft                  |
|           | signal transmission   |                 | . Mars probes                         |        | . Mars probes                              |
| 0         | signals<br>video communication                                |                 | Viking spacecraft                     |        | Viking spacecraft                          |
|           | video compression   |                 | Viking 1 spacecraft Viking lander 1   |        | Viking lander spacecraft Viking lander 1   |
|           | video data  |                 | Viking lander 1                       |        | Viking lander 2                            |
|           |   |                 | unmanned spacecraft                   |        | unmanned spacecraft                        |
|           | ape recorders   |                 | . space probes                        |        | . space probes                             |
|           | ed January 1990)  |                 | Mars probes                           |        | Mars probes                                |
| GS        | recording instruments   |                 | Viking spacecraft                     |        | Viking spacecraft                          |
|           | . tape recorders video tape recorders                         |                 | Viking 1 spacecraft                   |        | Viking lander spacecraft                   |
|           | video equipment   |                 | Viking lander 1 Viking orbiter 1      |        | Viking lander 1 Viking lander 2            |
|           | . video tape recorders  | RT              | interplanetary trajectories           | RT     | interplanetary trajectories                |
| RT        | multimedia  | 111             | space exploration                     |        | space exploration                          |
|           | video tapes   |                 | space flight                          |        | space flight                               |
| video ta  | anas  |                 |                                       | 1011   |  |
|           | ed April 1989)  |                 | spacecraft                            |        | Mars program programs                      |
| ÌRΤ       | audio tapes   | GS              | interplanetary spacecraft             | 00     | . NASA programs                            |
|           | cinematography  |                 | . Mars probes                         |        | NASA space programs                        |
| 0         | films   |                 | Viking spacecraft Viking 2 spacecraft |        | Viking Mars program                        |
|           | information   |                 | Viking lander 2                       |        | . space programs                           |
|           | magnetic tapes  |                 | Viking orbiter 2                      |        | NASA space programs                        |
|           | motion pictures multimedia                                    |                 | unmanned spacecraft                   | рт     | Viking Mars program                        |
|           | photographs   |                 | . space probes                        | RT     |  |
|           | photography   |                 | Mars probes                           |        | Viking spacecraft                          |
| 0         | tapes   |                 | Viking spacecraft                     | Viking | orbiter 1                                  |
|           | video tape recorders  |                 | Viking 2 spacecraft                   | GŠ     |  |
|           | visual aids   |                 | Viking lander 2 Viking orbiter 2      |        | . Mars probes                              |
| vido o to | lacanfarancing  | RT              | interplanetary trajectories           |        | Viking spacecraft                          |
|           | leconferencing<br>ed August 2000)                             |                 | space exploration                     |        | Viking 1 spacecraft                        |
|           | video conferencing  |                 | space flight                          |        | Viking orbiter 1                           |
| 002       | g   |                 |                                       |        | Viking orbiter spacecraft Viking orbiter 1 |
| vidicon   | S   | Viking 1        | 975 entry vehicle                     |        | unmanned spacecraft                        |
| DEF       | Television pickup tubes utilizing photo-                      | GS              | interplanetary spacecraft             |        | . space probes                             |
|           | ors as the sensing elements.                                  |                 | . Mars probes                         |        | Mars probes                                |
| GS        | electron tubes  |                 | Viking 1975 entry vehicle             |        | Viking spacecraft                          |
|           | . camera tubes vidicons                                       |                 | unmanned spacecraft . space probes    |        | Viking 1 spacecraft                        |
|           | return beam vidicons  |                 | Mars probes                           |        | Viking orbiter 1                           |
|           | thermicons  |                 | Viking 1975 entry vehicle             |        | Viking orbiter spacecraft Viking orbiter 1 |
| RT        | Advanced Vidicon Camera System                                | RT              | Mars landing                          | RT     |  |
|           | (AVCS)  |                 | soft landing                          | 101    | space exploration                          |
|           | fiber optics  |                 |                                       |        | space flight                               |
|           | pixels  | Viking la       |                                       | •      | ∞ spacecraft                               |
|           | video equipment   | GS              | interplanetary spacecraft             |        |  |
| Vietnan   | ı   |                 | . Mars probes                         |        | orbiter 2                                  |
| UF        | North Vietnam   |                 | Viking spacecraft Viking 1 spacecraft | GS     | interplanetary spacecraft . Mars probes    |
|           | Republic of Vietnam   |                 | Viking lander 1                       |        | Viking spacecraft                          |
| _         | South Vietnam   |                 | Viking lander spacecraft              |        | Viking 2 spacecraft                        |
| GS        | nations   |                 | Viking lander 1                       |        | Viking orbiter 2                           |
| рΤ        | . Vietnam   |                 | unmanned spacecraft                   |        | Viking orbiter spacecraft                  |
| RT        | Asia<br>Southeast Asia  |                 | . space probes                        |        | Viking orbiter 2                           |
|           | Outilieast Asia   |                 | Mars probes                           |        | unmanned spacecraft                        |
| view ef   | ects  |                 | Viking spacecraft                     |        | . space probes                             |
| SN        | (LIMITED TO EFFECTS OF CHANGE IN                              |                 | Viking 1 spacecraft Viking lander 1   |        | Mars probes Viking spacecraft              |
|           | ÀNGULAR SIZE OF FIELD OF VIEW<br>UPON RECEPTORS OF RADIATION) |                 | Viking lander spacecraft              |        | Viking Spacecraft                          |
| DEF       | Effects of change in angular size of                          |                 | Viking lander 1                       |        | Viking orbiter 2                           |
|           | view upon receptors of radiation.                             | RT              | interplanetary trajectories           |        | Viking orbiter spacecraft                  |
| RT        | angular correlation   |                 | Mars surface samples                  |        | Viking orbiter 2                           |
| 0         | effects   |                 | space exploration                     | RT     | interplanetary trajectories                |

| snace e           | exploration                  |          | crop vigor                   |           | pneumonia                                 |
|-------------------|------------------------------|----------|------------------------------|-----------|---|
| space fli         |                              |          | ∞ crops                      |           | viruses                                   |
| ∞ space iii       | 0                            | ,        | Earth resources              |           | VII USES                                  |
| ∞ spacecii        | ait                          |          | farm crops                   | Virgin    | Islands                                   |
| Viking orbiter 19 | 975                          |          | ∞ food                       | GS        |   |
|                   | netary spacecraft            | •        |                              | 00        |   |
| . Mars p          |                              |          | irrigation                   |           | . islands                                 |
|                   |                              |          | plants (botany)              |           | West Indies                               |
|                   | g spacecraft                 |          | wines                        |           | Virgin Islands                            |
|                   | ng orbiter spacecraft        |          |                              |           | nations                                   |
|                   | king orbiter 1975            | vinti th |                              |           | . United States                           |
|                   | ed spacecraft                | GS       | perturbation theory          |           | Virgin Islands                            |
| . space           | probes                       |          | . ∨inti theory               | RT        | archipelagoes                             |
| Mars              | probes                       | RT       | geodesy                      |           | Caribbean region                          |
| Vikir             | ng spacecraft                |          | orbit perturbation           |           | Caribbean Sea                             |
| Vik               | king orbiter spacecraft      |          | ∞ theories                   |           | tropical regions                          |
| V                 | /iking orbiter 1975          |          |                              |           |   |
|                   | J.                           | vinvl c  | opolymers                    | Virginia  | a   |
| Viking orbiter sp | pacecraft                    | ĞS       | copolymers                   | ĞS        | nations                                   |
|                   | netary spacecraft            | -        | . vinyl copolymers           | -         | . United States                           |
| . Mars p          |                              |          | plastics                     |           | Virginia                                  |
|                   | g spacecraft                 |          | . synthetic resins           | рT        | Allegheny Plateau (US)                    |
|                   | ing orbiter spacecraft       |          | addition resins              | IXI       | Assateague Island (MD-VA)                 |
|                   |                              |          |                              |           |   |
|                   | king orbiter 1               |          | vinyl copolymers             |           | Chesapeake Bay (US)                       |
|                   | king orbiter 2               |          | resins                       |           | Delmarva Peninsula (DE-MD-VA)             |
|                   | king orbiter 1975            |          | . synthetic resins           |           | Potomac River Valley (MD-VA-WV)           |
|                   | ied spacecraft               |          | addition resins              |           | Shenandoah Valley (VA)                    |
| . space           |                              |          | ∨inyl copolymers             |           | Wallops Island                            |
| Mars              | probes                       |          | vinyl polymers               |           |   |
| Vikir             | ng spacecraft                |          | . vinyl copolymers           | Virgo g   | galactic cluster                          |
| Vil               | king orbiter spacecraft      | RT       | additives                    | DEF       | A cluster of galaxies nearest to the      |
|                   | /iking orbiter 1             |          | copolymerization             |           | lay Galaxy, centered in the constellation |
|                   | /iking orbiter 2             | ,        | ∞ polymers                   |           | and about 16 million light-years from     |
|                   | /iking orbiter 1975          | `        | ~ polymers                   |           | Jsed for Virgo star cluster.              |
|                   |                              | vinul cu | anido                        | UF        |   |
|                   | netary trajectories          | vinyl cy |                              |           | 0   |
| planetar          |                              | USE      | acrylonitriles               | GS        |   |
|                   | xploration                   |          |                              |           | . galactic clusters                       |
| space fli         |                              | vinyl et |                              |           | Virgo galactic cluster                    |
| ∞ spacecra        | aft                          | USE      | butadiene                    |           | . galaxies                                |
|                   |                              |          |                              |           | Virgo galactic cluster                    |
| Viking rocket ve  | ehicle                       | vinyl p  | olymers                      | RT        | agglomeration                             |
| GS rocket v       | rehicles                     | GS       | vinyl polymers               |           | barred galaxies                           |
| . single          | stage rocket vehicles        |          | . polymethyl methacrylate    |           | ∞ clusters                                |
|                   | g rocket vehicle             |          | . polystyrene                |           | disk galaxies                             |
|                   | opellant rocket engines      |          | . polyvinyl chloride         |           | elliptical galaxies                       |
|                   | g rockets                    |          | . polyvinyl fluoride         |           | local group (astronomy)                   |
|                   |                              |          | * . * . *                    |           |   |
| variguar          | d 2 launch vehicle           |          | . vinyl copolymers           |           | spiral galaxies                           |
|                   |                              |          | styrofoam (trademark)        |           | star clusters                             |
| Viking spacecra   |                              |          | . polyvinyl alcohol          |           | star distribution                         |
|                   | ctive term for the composite |          | . vinylidene                 |           | stars                                     |
|                   | der space vehicle.           | RT «     | ∞ polymers                   |           |   |
| GS interplar      | netary spacecraft            |          |                              | Virgo s   | tar cluster                               |
| . Mars p          | probes                       | vinyl ra | ndical                       | USE       | Virgo galactic cluster                    |
| Vikin             | g spacecraft                 | ĞS       | radicals                     |           |   |
|                   | ng 1 spacecraft              |          | . vinyl radical              | virial c  | oefficients                               |
|                   | king lander 1                | RT       | free radicals                | GS        | coefficients                              |
|                   | king orbiter 1               |          | 1100 Tadioalo                | -         | . virial coefficients                     |
|                   | ng 2 spacecraft              | vinylid  | ono                          | RT        | equations of state                        |
|                   | king lander 2                | UF       |                              | 13.1      | intermolecular forces                     |
|                   |                              |          | polyvinylidene               |           |   |
|                   | king orbiter 2               | GS       | organic compounds            |           | virial theorem                            |
|                   | ng lander spacecraft         |          | . hydrocarbons               | !!        |   |
|                   | king lander 1                |          | aliphatic hydrocarbons       | virial tl |   |
|                   | king lander 2                |          | alkenes                      | GS        |   |
|                   | ng orbiter spacecraft        |          | ethylene                     |           | . virial theorem                          |
| Vik               | king orbiter 1               |          | vinylidene                   | RT        | 0,  |
| Vik               | king orbiter 2               |          | vinyl polymers               |           | kinetic equations                         |
| Vik               | king orbiter 1975            |          | vinylidene                   |           | ∞ mechanics (physics)                     |
| unmann            | ed spacecraft                |          | •                            |           | missing mass (astrophysics)               |
| . space           | probes                       | violenc  | e                            |           | virial coefficients                       |
| Mars              |                              | GS       | violence                     |           |   |
|                   | ing spacecraft               | 00       | . attacking (assaulting)     | virtual   | memory systems                            |
|                   | king 1 spacecraft            | RT       | crime                        | RT        |   |
|                   | /iking lander 1              | IXI      |                              | 111       | data management                           |
|                   |                              |          | disorders                    |           |   |
|                   | /iking orbiter 1             |          | police                       |           | data storage                              |
|                   | king 2 spacecraft            |          | terrorism                    |           | magnetic storage                          |
|                   | /iking lander 2              |          | warfare                      |           |   |
|                   | /iking orbiter 2             |          |                              |           | properties                                |
|                   | king lander spacecraft       | viral di | seases                       |           | accuracy                                  |
| V                 | /iking lander 1              | SN       | (EXCLUDES PLANT DISEASES)    |           | ⇒ physical properties                     |
|                   | /iking lander 2              | GS       | diseases                     |           | ∞ properties                              |
|                   | king orbiter spacecraft      |          | . infectious diseases        |           |   |
|                   | /iking orbiter 1             |          | viral diseases               | virtual   | reality                                   |
|                   | /iking orbiter 2             |          | acquired immunodeficiency    |           | led February 1992)                        |
|                   | /iking orbiter 2             |          | syndrome                     |           | An artificial reality that projects the   |
|                   |                              |          | •                            |           |   |
| RT Viking M       | Aars program                 |          | influenza                    |           | to a three dimensional space generated    |
| ulmanele          |                              |          | poliomyelitis                |           | computer.                                 |
| vineyards         |                              |          | smallpox                     | UF        | VR (virtual reality)                      |
| RT agricultu      | ure                          | RT       | encephalitis                 | RT        | cockpit simulators                        |
| blight            |                              |          | hepatitis                    |           | computerized simulation                   |
| botany            |                              |          | human immunodeficiency virus |           | environment simulation                    |
| crop gro          | owth                         |          | meningitis                   |           | flight simulation                         |
|                   |                              |          | <del>-</del>                 |           | -   |

human-computer interface viscous drag . . friction drag man machine systems viscous flow . viscous drag motion simulation . skin friction simulation viscoplastic flow . . friction drag space environment simulation USE viscoplasticity .. viscous drag training simulators eddy viscosity viscoplasticity Hartmann number viscoplastic flow virulence laminar flow GS mechanical properties biological weapons turbulent flow plastic properties human immunodeficiency virus viscometry microorganisms . viscoplasticity RT hysteresis viscous flow toxicity nonNewtonian flow DEF The flow of a fluid through a duct under viruses nonNewtonian fluids conditions such that the mean free path is very viruses plastic anisotropy small in comparison with the smallest dimen-GS microorganisms plastic flow sions of a transverse section of the duct. This . viruses relaxation (mechanics) flow may be either laminar or turbulent. . . adenoviruses viscoelasticity GS fluid flow viscous damping . viscous flow .. bacteriophages . human immunodeficiency virus . . boundary layer flow RT biological weapons viscopumps . . . reattached flow ∞ blisters GS pumps ... secondary flow . . . separated flow interferon viscopumps RT viscous flow protobiology . boundary layer separation . . Couette flow viral diseases viscosity Karman-Bodewadt flow virulence That molecular property of a fluid . . Stokes flow viscera which enables it to support tangential stresses aerodynamics for a finite time and thus to resist deformation; barotropic flow (FOR SPECIFIC ORGANS SEE ANATOMY) GS òrgans the ratio of shear stress divided by shearing Brinkman number viscera eddy viscosity RT abdomen transport properties ∞ flow anatomy . viscosity flow characteristics peritoneum . . eddy viscosity gas flow . gas viscosity thorax inviscid flow density (mass/volume) Knudsen flow viscoelastic cylinders flow characteristics laminar flow RT ∞ cylinders flow resistance magnetohydrodynamic shear heating cylindrical bodies internal friction Maxwell fluids cylindrical shells low Reynolds number Milne-Thomson method ∞ motion Navier-Stokes equation viscoelastic damping ∞ physical properties Pohlhausen method rheology similitude law DEF The absorption of oscillatory motions Prandtl number by materials which are viscous while exhibiting Reynolds number certain elastic properties. solubility turbulent flow GS damping Stokes law (fluid mechanics) viscometry . elastic damping
. viscoelastic damping superfluidity viscopumps surface properties thermal diffusion viscosity . viscous damping wedge flow . viscoelastic damping thermal diffusivity elastodynamics thixotropy viscous fluids . elastic damping Fluids whose molecular viscosity is viscometers viscoelastic damping sufficiently large to make the viscous forces a viscometry significant part of the total force field in the fluid. viscous flow viscoelastic flow flow stability USE viscoelasticity Viscount aircraft ∞ fluids GS BAC aircraft Maxwell fluids viscoelasticity Viscount aircraft Navier-Stokes equation DEF Property of materials that strain under jet aircraft Newtonian fluids stress partly elastically and partly viscously, that is, whose strain is partly dependent on time and magnitude of stress. Used for viscoelastic flow. turboprop aircraft nonNewtonian fluids Viscount aircraft Oseen approximation monoplanes semisolids viscoelastic flow Viscount aircraft squeeze films GS mechanical properties passenger aircraft weightless fluids . elastic properties Viscount aircraft .. viscoelasticity transport aircraft visibility , invisibility . . . photoviscoelasticity Viscount aircraft UF . . thermoviscoelasticity RT ∞ aircraft GS visibility RT hydroelasticity . low visibility hysteresis viscous damping RT appearance Maxwell fluids DEF The dissipation of energy that occurs brightness nonNewtonian flow when a particle in a vibrating system is resisted ceilings (meteorology) nonNewtonian fluids by a force that has a magnitude proportional to character recognition plastic flow the magnitude of the velocity of the particle and color relaxation (mechanics) direction opposite to the direction of the particle. contrast squeeze films GS damping darkening viscoplasticity viscous damping enhanced vision viscous damping . viscoelastic damping fog elastic damping glare resonance testing haze viscometers measuring instruments viscoelasticity human factors engineering viscometers illuminance viscoplasticity rotating cylinders image contrast viscometry legibility viscous drag viscosity dynamic characteristics light (visible radiation) . drag light transmission . . friction drag luminescence viscometry rotating cylinders luminosity . viscous drag night flights (aircraft) friction

flow resistance

opacity

viscometers

viscosity

|              | antical proportion                      | hyporonio                               | anaga nargantian                               |
|--------------|---|---|--|
|              | optical properties                      | hyperopia                               | space perception                               |
|              | perception                              | illusions                               |  |
|              | radiance                                | images                                  | visual flight                                  |
|              | reading                                 | legibility                              | RT air navigation                              |
|              | resolution                              | light adaptation                        | •  |
|              |   |   | collision avoidance                            |
|              | retinal adaptation                      | miosis                                  | ∞ flight                                       |
|              | sensitivity                             | myopia                                  | flight conditions                              |
|              | smoke                                   | oculomotor nerves                       | flight paths                                   |
|              | symbols                                 | ophthalmodynamometry                    |  |
|              |   |   | flight safety                                  |
|              | transmissivity                          | optometry                               | landing  |
|              | viewing                                 | perception                              | whiteout                                       |
|              | vision                                  | phosphene                               |  |
|              | visual control                          | presbyopia                              |  |
|              | visual observation                      |   | visual flight rules                            |
|              |   | pupils                                  | UF VFR (rules)                                 |
|              | whiteout                                | resolution                              | GS rules `                                     |
|              |   | retina                                  |  |
| visible      | infrared spin scan radiometer           | retinal adaptation                      | . flight rules                                 |
| DEF          | A radiometer used for satellite sound-  | retinal images                          | ∨isual flight rules                            |
|              |   |   |  |
|              | ne atmosphere.                          | thresholds (perception)                 | viewel absorvation                             |
| GS           | measuring instruments                   | viewing                                 | visual observation                             |
|              | . radiation measuring instruments       | visibility                              | GS observation                                 |
|              | actinometers                            | visual acuity                           | . visual observation                           |
|              |   | visual acuity                           | RT optical tracking                            |
|              | radiometers                             |   |  |
|              | infrared detectors                      | visors                                  | surveillance                                   |
|              | infrared radiometers                    | RT eye protection                       | visibility                                     |
|              | visible infrared spin scan              | radiation protection                    | visual perception                              |
|              |   | · · · · · · · · · · · · · · · · · · ·   | visual tasks                                   |
|              | radiometer                              | sunglasses                              | VISUAI IASKS                                   |
|              | infrared instruments                    |   |  |
|              | infrared detectors                      | visual accommodation                    | visual perception                              |
|              |   |   | visual perception                              |
|              | infrared radiometers                    | RT accommodation                        | UF sight                                       |
|              | visible infrared spin scan              |   | GS perception                                  |
|              | radiometer                              | visual acuity                           | ·  |
| рт           |   |   | . sensory perception                           |
| RT           | atmospheric sounding                    | DEF Keeness of perception and sharpness | visual perception                              |
|              | satellite sounding                      | of vision.                              | critical flicker fusion                        |
|              | satellite-borne instruments             | GS acuity                               |  |
|              | Satellite bottle ilistrationis          | *                                       | space perception                               |
|              | # · ·                                   | . visual acuity                         | autokinesis                                    |
| visible r    | radiation                               | hyperopia                               | visual discrimination                          |
| USE          | light (visible radiation)               | RT peripheral vision                    |  |
|              |   | • •                                     | RT afterimages                                 |
| ! - !  -   - |   | Snellen tests                           | blinking                                       |
|              | spectrum                                | vision                                  | brightness discrimination                      |
| DEF          | The range of wavelengths of visible     |   | elevator illusion                              |
|              | n; display or graph of the intensity of | visual aids                             |  |
|              |   |   | motion perception                              |
|              | adiation emitted or absorbed by a mate- | RT ∞ aids                               | ∞ orientation                                  |
| rial as a    | function of wavelength or some related  | audio visual equipment                  | perceptual errors                              |
| parame       | ter                                     | audio visual material                   |  |
|              |   |   | ∞ space orientation                            |
| GS           | spectra                                 | charts                                  | tachistoscopes                                 |
|              | . radiation spectra                     | diagrams                                | thresholds (perception)                        |
|              | electromagnetic spectra                 | display devices                         |  |
|              |   |   | visual observation                             |
|              | visible spectrum                        | drawings                                | visual tasks                                   |
| RT。          | absorption                              | multimedia                              | Tiodal tachto                                  |
|              | absorption spectra                      | photographs                             |  |
|              |   |   | visual photometry                              |
|              | astronomical spectroscopy               | training devices                        | . ,  |
|              | auroral spectroscopy                    | video tapes                             | DEF A subjective approach to the problem       |
|              | cathodoluminescence                     |   | of photometry, wherein the human eye is used   |
|              |   | idental acoustical                      | as the sensing instrument; to be distinguished |
|              | emission spectra                        | visual control                          |  |
|              | gas spectroscopy                        | GS manual control                       | from photoelectric photometry.                 |
|              | light (visible radiation)               | . visual control                        | GS optical measurement                         |
|              | ,                                       |   | . photometry                                   |
|              | line spectra                            | RT aircraft control                     |  |
|              | molecular spectra                       | approach control                        | ∨isual photometry                              |
|              | solar spectra                           | attitude control                        |  |
|              |   |   | vieual niamente                                |
|              | spectral bands                          | ∞ control                               | visual pigments                                |
|              | spectroscopy                            | display devices                         | GS pigments                                    |
|              | stellar spectra                         | guidance (motion)                       | . visual pigments                              |
|              |   | missile control                         | RT dark adaptation                             |
| ulai         |   |   |  |
| vision       |   | remote control                          | photoreceptors                                 |
| UF           | macular vision                          | runway lights                           | photosensitivity                               |
| GS           | vision                                  | servocontrol                            | retina   |
| 00           |   |   | reuna  |
|              | . binocular vision                      | spacecraft control                      |  |
|              | . color vision                          | visibility                              | vigual gionale                                 |
|              | . enhanced vision                       | - · · · · · · · · · · · · · · · · · · · | visual signals                                 |
|              |   | vievel discrimination                   | RT beacons                                     |
|              | monocular vision                        | visual discrimination                   | cues   |
|              | . night vision                          | GS discrimination                       | luminaires                                     |
|              | . peripheral vision                     | . sensory discrimination                |  |
|              |   |   | optical communication                          |
|              | stereoscopic vision                     | ∨isual discrimination                   | ∞ signals                                      |
| RT           | adaptation                              | perception                              | - <b>J</b>                                     |
|              | anastigmatism                           | . sensory perception                    |  |
|              |   |   | visual stimuli                                 |
|              | blindness                               | visual perception                       |  |
|              | brightness                              | visual discrimination                   | RT perceptual errors                           |
|              | choroid membranes                       | RT ∞ recovery                           | ∞ signals                                      |
|              |   | INT SETOUTETY                           | ∞ stimuli                                      |
|              | color                                   |   |  |
|              | conjunctiva                             | visual displays                         | visual tasks                                   |
|              |   |   | zeitgebers                                     |
|              | contrast                                | USE display devices                     | 23.1900010                                     |
|              | cornea                                  |   |  |
|              | dark adaptation                         | visual fields                           | visual tasks                                   |
|              |   |   |  |
|              | eye (anatomy)                           | RT field of view                        | GS tasks                                       |
|              | eye dominance                           | ∞ fields                                | . visual tasks                                 |
|              |   |   |  |
|              | flash blindness                         | peripheral vision                       | RT eye movements                               |
|              | glare                                   | retina                                  | human performance                              |
|              | heterophoria                            | retinal images                          | visual observation                             |
|              |   | <u> </u>                                |  |
|              | human factors engineering               | Saccadic eye movements                  | visual perception                              |
|              | ······································  |   |  |

| visual stimuli   | metallic glasses   | echo suppressors   |
|--|--|--|
| visual tracking  | porcelain  | ground-air-ground communication  |
| USE optical tracking   | vitrification  | multimedia   |
| USE Optical tracking   | vitrification  | radio communication  |
| visualization of flow  |  | radiotelephones  |
| USE flow visualization   | 0 , ,  | reentry communication  |
| OOL HOW VISUALIZATION  | material.<br>RT ceramics   | scrambling (communication)   |
| vitamin A  |  | single channel per carrier   |
| USE retinene   | glass  | transmission   |
| COL TOURIONS   | porcelain  | single sideband transmission   |
| vitamin B  | solidification   | speech   |
| USE thiamine   | vitreous materials   | speech baseband compression  |
| 002  | VI 404 sivereft  | verbal communication   |
| vitamin B 2  | VJ-101 aircraft  | vocoders   |
| USE riboflavin   | GS jet aircraft  | voice control  |
| 302  | . VJ-101 aircraft  | voice data processing  |
| vitamin B 6  | monoplanes   | wireless communication   |
| USE pyridoxine   | VJ-101 aircraft  | words (language)   |
| 501 py   | single engine aircraft   |  |
| vitamin B 12   | . VJ-101 aircraft  | voice control  |
| USE cyanocobalamin   | supersonic aircraft  | SN (DEVICE OPERATION BY VOICE)   |
|  | . VJ-101 aircraft  | DEF Using the voice to activate devices  |
| vitamin B complex  | V/STOL aircraft  | which respond or operate by means of speech  |
| USE biotin   | . vertical takeoff aircraft  | recognition. SN (device operation by voice).   |
|  | VJ-101 aircraft  | RT bioengineering  |
| vitamin C  | RT ∞ aircraft  | ∞ control  |
| USE ascorbic acid  |  | robotics   |
|  | vlasov equations   | robots   |
| vitamin D  | GS analysis (mathematics)  | speech recognition   |
| USE calciferol   | real variables   | voice communication  |
|  | differential equations   | voice data processing  |
| vitamin E  | partial differential equations   | voice data processing  |
| USE tocopherol   | vlasov equations   | voice data processing  |
|  | RT ∞ equations   | GS data processing   |
| vitamin G  | stability  | . voice data processing  |
| USE riboflavin   | ,  | cepstral analysis  |
|  | VLBI   | RT artificial intelligence   |
| vitamin K  | USE very long base interferometry  | ∞ data   |
| USE phylloquinone  | , <b>y</b> ,   | digital to voice translators   |
|  | VLF emission recorders   | •  |
| vitamin M  | RT atmospheric radiation   | signal encoding<br>single channel per carrier  |
| USE folic acid   | atmospherics   |  |
|  | cosmic rays  | transmission   |
| vitamin P  | electromagnetic radiation  | vector quantization  |
| USE bioflavonoids  | planetary radiation  | verbal communication   |
|  | ∞ recorders  | vocoders   |
| vitamins   | recording instruments  | voice communication  |
|  |  | voice control  |
| GS vitamins  | ŭ  |  |
| GS vitamins . ascorbic acid  | VLSI   | Vaice of America   |
|  | VLSI   | Voice of America   |
| . ascorbic acid  | · ·  | RT broadcasting  |
| <ul><li>ascorbic acid</li><li>bioflavonoids</li></ul>  | VLSI USE very large scale integration  |  |
| . ascorbic acid<br>. bioflavonoids<br>. biotin   | VLSI USE very large scale integration  VLTA (aircraft)   | RT broadcasting radio transmission   |
| . ascorbic acid . bioflavonoids . biotin . calciferol  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998)   | RT broadcasting radio transmission void ratio  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine  | VLSI USE very large scale integration  VLTA (aircraft)   | RT broadcasting radio transmission  void ratio  UF compactness   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998)   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry)  | RT broadcasting radio transmission  void ratio  UF compactness  GS ratios  . void ratio  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000)   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry)  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume)  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000)   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow   |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics)   |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow   |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene riboflavin thiamine  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics)   |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene tiboflavin thiamine tocopherol   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density   |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene riboflavin thiamine tocopherol  RT ascorbic acid metabolism  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores   |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene riboflavin thiamine tocopherol  RT ascorbic acid metabolism choline  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity  |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene riboflavin thiamine tocopherol RT ascorbic acid metabolism   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs ∞ food  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties  |
| ascorbic acid bioflavonoids biotin calciferol carnitine cyanocobalamin folic acid nicotinamide nicotinic acid phylloquinone pyridoxine retinene riboflavin thiamine tocopherol RT ascorbic acid metabolism   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs ∞ food ∞ nutrients  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders RT bandpass filters computers   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs . food . nutrients  Viterbi decoders  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs ∞ food ∞ nutrients  Viterbi decoders GS decoders  | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators frequency modulation   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability permeability porosity reactor cores surface properties voids  voids  RT buoyancy   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carritine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs  ∞ food ∞ nutrients  Viterbi decoders GS decoders . Viterbi decoders . scaliferol  Solidation  Carrierion  RT ascorbic acid metabolism choline drugs . solidation  Viterbi decoders . Viterbi decoders . Viterbi decoders | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators frequency modulation messages radio communication  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | VLSI USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication)   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs  ∞ food ∞ nutrients  Viterbi decoders GS decoders . Viterbi decoders RT coding decoding signal encoding   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs  ∞ food ∞ nutrients  Viterbi decoders GS decoders . Viterbi decoders RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs  ∞ food ∞ nutrients  Viterbi decoders GS decoders . Viterbi decoders RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Viton rubber (trademark)                              | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing   | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs ∞ food ∞ nutrients  Viterbi decoders GS decoders . Viterbi decoders RT coding decoding signal encoding signal processing  Viton rubber (trademark) GS copolymers . Vito rubber (trademark) elastomers                     | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing   | radio transmission  void ratio  UF compactness GS ratios . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT  buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  | radio transmission  void ratio  UF compactness GS ratios   |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice RT audio frequencies speech tongue  | radio transmission  void ratio  UF compactness GS ratios  void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio  Voigt effect RT birefringence  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice  RT audio frequencies speech tongue   | radio transmission  void ratio  UF compactness GS ratios  void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio  Voigt effect RT birefringence ∞ effects  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice RT audio frequencies speech tongue  voice communication GS telecommunication  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio  Voigt effect RT birefringence ∞ effects optical paths  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice RT audio frequencies speech tongue  voice communication GS telecommunication . communication . communication   | radio transmission  void ratio  UF compactness GS ratios     void ratio  RT ∞ conductivity     density (mass/volume)     free flow     hole distribution (mechanics)     packing density     permeability     porosity     reactor cores     surface properties     voids  voids  RT buoyancy     cavities     crack geometry     crack opening displacement     defects     inclusions     infiltration     interstices     percolation     permeability     porosity     voids  voids  Voigt effect  RT birefringence     ∞ effects     optical paths     refraction |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice RT audio frequencies speech tongue  voice communication GS telecommunication . communication . communication . voice communication . voice communication . voice communication  | RT broadcasting radio transmission  void ratio  UF compactness GS ratios  . void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio  Voigt effect RT birefringence ∞ effects optical paths  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carritine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system . larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice RT audio frequencies speech tongue  voice communication . communication . communication . communication . voice communication . voice communication . voice communication . voice communication . voice communication . voice communication . voice communication . telephony | radio transmission  void ratio  UF compactness GS ratios  void ratio  RT ∞ conductivity density (mass/volume) free flow hole distribution (mechanics) packing density permeability porosity reactor cores surface properties voids  voids  RT buoyancy cavities crack geometry crack opening displacement defects inclusions infiltration interstices percolation permeability porosity void ratio  Voigt effect  RT birefringence ∞ effects optical paths refraction Zeeman effect  |
| . ascorbic acid . bioflavonoids . biotin . calciferol . carnitine . cyanocobalamin . folic acid . nicotinamide . nicotinic acid . phylloquinone . pyridoxine . retinene . riboflavin . thiamine . tocopherol RT ascorbic acid metabolism choline drugs   | USE very large scale integration  VLTA (aircraft) (added November 1998) USE very large transport aircraft  VOC (organic chemistry) (added March 2000) USE volatile organic compounds  vocal cords GS anatomy . respiratory system larynx vocal cords RT glottis  vocoders  RT bandpass filters computers digital to voice translators frequency modulation messages radio communication scrambling (communication) signal reception speech baseband compression voice communication voice data processing  voice RT audio frequencies speech tongue  voice communication GS telecommunication . communication . communication . voice communication . voice communication . voice communication  | radio transmission  void ratio  UF compactness GS ratios     void ratio  RT ∞ conductivity     density (mass/volume)     free flow     hole distribution (mechanics)     packing density     permeability     porosity     reactor cores     surface properties     voids  voids  RT buoyancy     cavities     crack geometry     crack opening displacement     defects     inclusions     infiltration     interstices     percolation     permeability     porosity     voids  voids  Voigt effect  RT birefringence     ∞ effects     optical paths     refraction |

DEF Any compounds of carbon (excluding petrology linear circuits carbon oxides, carbonic acid, metallic carbon-Rouse belts Ohms law ates and carbides, and carbon-nitrogen comvolcanic eruptions open circuit voltage pounds) that are readily vaporizable; any of volcanoes optogalvanic spectroscopy such compounds that participate in atmospheric proximity effect (electricity) voltage photochemical reactions, or that are considered quantum efficiency USE electric potential indoor, local, regional, or global contaminants. short circuit currents VOC (organic chemistry) threshold voltage voltage amplifiers organic compounds transconductance amplifiers GS volatile organic compounds voltage amplifiers . voltage amplifiers current amplifiers air pollution air quality feedback amplifiers magnetic amplifiers Volterra equations contaminants GS analysis (mathematics) exhaust emission . functional analysis preamplifiers indoor air pollution . . integral equations volt-ampere characteristics ozone . . Volterra equations photochemical reactions  $RT \, \infty \, equations$ voltage breakdown nonlinearity USE electrical faults volatility ∞ radiation thermodynamic properties voltage controlled oscillators . thermophysical properties DEF An oscillator whose frequency of oscilvolatility voltmeters lation can be varied by changing an applied coal gasification voltage variation indicators voltage. Used for VCO. evaporation flash point measuring instruments VCO . voltmeters GS oscillators prevaporization vapor phases . millivoltmeters voltage controlled oscillators ammeters circuits vapor pressure coulometers electric control electrometers vaporizing electric networks potentiometers (instruments) frequency modulation volatilization frequency stability vaporizing USE volume microwave oscillators voltage regulators GS volume volcanic eruptions . body volume (biology) (added October 2001) voltage converters (AC to AC) RT area DEF The sudden ejection of solid, liquid, or gaseous matter from a volcanic vent or fissure. GS transformers capacity . voltage converters (AC to AC) dimensions eruptions (volcanology) alternating current frustums RT calderas auxiliary power sources geometry effluents isochoric processes ∞ converters lava ∞ electric equipment rates (per time) magma ∞ electric power submarine hydrothermal vents volumetric analysis ∞ power supplies volcanoes weight (mass) volcanology voltage converters (DC to DC) RT auxiliary power sources volcanics volume fraction ∞ converters USE concentration (composition) USE volcanology direct current electric batteries volcanoes volumetric analysis ∞ electric equipment DEF Naturally occuring vents or fissures at ∞ electric power GS chemical tests the Earth's surface through which erupt molten, solid, and gaseous materials. ∞ power supplies . chemical analysis . volumetric analysis power supply circuits active volcanoes analytical chemistry GS geology voltage generators gas analysis . volcanoes arc generators quantitative analysis electrostatic generators volume landforms function generators . volcanoes ∞ generators volumetric efficiency . Mars volcanoes signal generators RT energy conversion efficiency engine design basalt calderas voltage measurement cones (volcanoes) fuel-air ratio USE electrical measurement effusives laser outputs geomorphology voltage regulators
GS control equipment
. regulators geothermal resources volumetric strain GS fatigue (materials) mountains . . voltage regulators volumetric strain orography avalanche diodes circuit protection RT deformation paleomagnetism structural strain petrology controllers temperature inversions Rouse belts current regulators volcanic eruptions electric switches volcanology voluntary muscle electronic control (added December 2004) power factor controllers volcanology USE skeletal muscle power supply circuits volcanics switching circuits geology transformers vomiting volcanology transmission loss motion sickness basalt voltage controlled oscillators nausea calderas cones (volcanoes) voltage variation indicators effusives Von Karman equation USE voltmeters geomorphology flow equations volt-ampere characteristics Von Karman equation lava Mars volcanoes RT capacitance-voltage characteristics RT ∞ equations

∞ characteristics

∞ electronics

electric current

electric potential

mountains

orography

paleomagnetism

petrogenesis

flow stability

vortex streets

Karman vortex street

vortex breakdown

vorticity equations turbulent flow vortex filaments Von Karman equation von Mises theory vortex flaps USE stress functions vortex injectors vortex columns GS injectors von Zeipel method vortex injectors USE vortices equations of motion vortex lattice method Hamiltonian functions vortex disturbances (added April 1992) ∞ methodology USE vortices RT boundary conditions computational fluid dynamics perturbation theory vortex filaments flow velocity Voodoo aircraft
USE F-101 aircraft The fine-scale structure of turbulent flow; the small non energy containing eddies flux vector splitting lattices (mathematics) convected at mean freestream velocities. VOR systems panel method (fluid dynamics) RT ∞ filaments flow stability USE VHF omnirange navigation vortices fluid dynamics Voronoi diagrams
(added October 2000)
DEF In computational geometry, a partitioning of a space containing a finite set of points, P, in such a way that each partition contains a single point in P and the subspace for which it is vortex precession horseshoe vortices flow velocity RT turbulence flowmeters vortex in cell technique precession velocity measurement vortices vortex flaps the nearest point from the set. Some applica-DEF Leading edge flap designs for highly tions include regional planning, image analysis, and robot path planning. vortex rings swept wings, in which the leading edge tabs, RT horseshoe vortices which are counter reflected, cause vortices to ∞ rings GS diagrams form on the flap. The trapped vortices cause trapped vortices Voronoi diagrams significantly improved wind flow characteristics. vortices RT computational geometry GS airfoils geometry . flaps (control surfaces) vortex shedding grid generation (mathematics) . . wing flaps DEF Periodic separation of a fluid flowing image analysis vortex flaps past an unstreamlined body. partitions (mathematics) brakes (for arresting motion) GS fluid mechanics spatial distribution . aerodynamic brakes . fluid dynamics topology . . wing flaps . . vortéx shedding trajectory planning ... vortex flaps shedding . aircraft brakes vortices vortex advisory system . . wing flaps DEF Display system which compares mea-... vortex flaps vortex sheets sured on-minute-average wind magnitudes and control surfaces aircraft design direction with the wind-rose criterion to predict . flaps (control surfaces) flow distribution . . wing flaps wake vorticity and to indicate to the air traffic rotating fluids controller (with a red or green light) when the drag devices
aerodynamic brakes
wing flaps
vortex flaps
aerodynamic drag
jet flaps ∞ sheets interarrival spacings for landings may be returbulent wakes duced to the 3 nautical mile limit. vortices air traffic control vorticity aircraft approach spacing aircraft wakes vortex streets ∞ systems Two parallel rows of alternately placed turbulent wakes leading edge flaps vortices along the wake of an obstacle in a fluid vortex alleviation leading edges of moderate Reynolds number. lift augmentation GS vortex streets vortex alleviation separated flow Karman vortex street The alteration of airfoil configurations trailing edge flaps RT discontinuity to change the airflow patterns directly behind the trailing edges ∞ sheets wings to eliminate or inhibit the vertical motion vortex breakdown turbulent wakes which directly affects the aircraft immediately vortices Von Karman equation following, during closely spaced landings.

RT aircraft wakes wing loading vortices drag devices gust alleviators vortex flow vortex traps USE vortices USE trapped vortices protuberances riblets vortex generation vortex tubes spoilers USE vortex generators Hilsch tubes USE vortex advisory system vortices vortices vortex generators wakes vortex generation vortex-blade interaction winglets airfoil fences USE blade-vortex interaction boundary layer control vortex avoidance boundary layer separation Schemes which involve airborne or generators DEF In fluids, circulations drawing their enground-based equipment to track, monitor, ergy from flows of much larger scale and Hilsch tubes and/or predict vortex behavior which might affect horseshoe vortices brought about by pressure irregularities. Used the approach and landing operations. inlet flow for eddies, rotational flow, vortex columns, voravoidance vortices tex disturbances, vortex flow, and vortex tubes. . vortex avoidance wing slots UF eddies aerodynamic stability rotational flow air traffic control vortex in cell technique vortex columns aircraft approach spacing (added April 1993) vortex disturbances aircraft landing VIC method vortex flow buffeting analysis (mathematics) vortex tubes . numerical analysis vortices gusts . . approximation rotation horseshoe vortices . . vortex in cell technique safety . trapped vortices . wing tip vortices RT Abrikosov theory turbulent flow computational fluid dynamics vortices fast Fourier transformations winglets finite difference theory agitation ∞ methodology particle in cell technique Biot-Savart law

Poisson equation

blade-vortex interaction

cavitation flow

vortex breakdown

RT flow stability

counterflow . vorticity transport hypothesis soft landing spacecraft ∞ disturbances conservation equations . Vostok spacecraft eddy currents ... Vostok 4 spacecraft divergence flow distortion mixing length flow theory Vostok 5 spacecraft flow stability turbulent flow fluid flow GS manned spacecraft Goertler instability Voskhod 1 spacecraft . Vostok spacecraft Hilsch tubes GS manned spacecraft . Vostok 5 spacecraft Kolmogorov theory . voskhod manned spacecraft reentry vehicles large eddy simulation Voskhod 1 spacecraft . recoverable spacecraft meteorological solenoids reentry vehicles . . Vostok spacecraft . recoverable spacecraft Vostok 5 spacecraft mixing planetary waves . . voskhod manned spacecraft soft landing spacecraft recirculative fluid flow Voskhod 1 spacecraft . Vostok spacecraft rotating fluids rotating liquids rotation soft landing spacecraft ... Vostok 5 spacecraft . voskhod manned spacecraft ... Voskhod 1 spacecraft Vostok 6 spacecraft secondary flow GS manned spacecraft Voskhod 2 spacecraft . Vostok spacecraft Strouhal number superconductivity GS manned spacecraft .. Vostok 6 spacecraft superfluidity . voskhod manned spacecraft reentry vehicles thrust distribution turbulence turbulent flow . Voskhod 2 spacecraft . recoverable spacecraft reentry vehicles . . Vostok spacecraft . recoverable spacecraft Vostok 6 spacecraft turbulent mixing . . voskhod manned spacecraft soft landing spacecraft vortex alleviation Voskhod 2 spacecraft . Vostok spacecraft soft landing spacecraft ... Vostok 6 spacecraft vortex avoidance . voskhod manned spacecraft vortex filaments ... Voskhod 2 spacecraft Vostok spacecraft vortex flaps GS manned spacecraft vortex generators Vostok spacecraft voskhod manned spacecraft vortex in cell technique .. Vostok 1 spacecraft .. Vostok 2 spacecraft manned spacecraft vortex lattice method . voskhod manned spacecraft vortex precession .. Voskhod 1 spacecraft .. Voskhod 2 spacecraft Vostok 3 spacecraft vortex rings . . Vostok 4 spacecraft vortex shedding Vostok 5 spacecraft reentry vehicles vortex sheets . recoverable spacecraft . Vostok 6 spacecraft vortex streets . . voskhod manned spacecraft reentry vehicles vorticity ... Voskhod 1 spacecraft ... Voskhod 2 spacecraft . recoverable spacecraft wakes Vostok spacecraft soft landing spacecraft
. voskhod manned spacecraft
. Voskhod 1 spacecraft . . . Vostok 1 spacecraft vorticity Vostok 2 spacecraft enstrophy GS Vostok 3 spacecraft algebra . Voskhod 2 spacecraft Vostok 4 spacecraft Vostok 5 spacecraft . vector spaces .. vectors (mathematics) space capsules Vostok 6 spacecraft .. vorticity Vostok 1 spacecraft soft landing spacecraft analysis (mathematics) manned spacecraft . Vostok spacecraft . calculus . Vostok spacecraft Vostok 1 spacecraft Vostok 2 spacecraft . . vector analysis ... curl (vectors) Vostok 1 spacecraft . vorticity reentry vehicles Vostok 3 spacecraft . recoverable spacecraft . real variables Vostok 4 spacecraft .. vector analysis . . Vostok spacecraft Vostok 5 spacecraft ... curl (vectors) Vostok 1 spacecraft . Vostok 6 spacecraft ... vorticity soft landing spacecraft space capsules geometry . Vostok spacecraft . vector analysis . . Vostok 1 spacecraft voting . . curl (vectors) governments . . . vorticity
atmospheric circulation Vostok 2 spacecraft law (jurisprudence) GS manned spacecraft minorities Vostok spacecraft politics Beltrami flow Vostok 2 spacecraft sovereignty Crocco method flow stability reentry vehicles Helmholtz vorticity equation . recoverable spacecraft vowels horseshoe vortices potential flow Vostok spacecraft RT consonants (speech) Vostok 2 spacecraft grammars secondary flow trapped vortices soft landing spacecraft languages . Vostok spacecraft words (language) ... Vostok 2 spacecraft turbulence Voyager 1 spacecraft vortex sheets Vostok 3 spacecraft DEF A spacecraft launched in the 1977 Voyvortices GS manned spacecraft ager mission. vorticity equations

DEF Dynamic equations for the rate of Vostok spacecraft interplanetary spacecraft . Vostok 3 spacecraft Voyager 1 spacecraft change on the vorticity of a parcel, obtained by taking the curl of the vector equation of motion. reentry vehicles unmanned spacecraft . recoverable spacecraft . space probes analysis (mathematics) Vostok spacecraft Voyager 1 spacecraft . real variables . Vostok 3 spacecraft flyby missions . . differential equations soft landing spacecraft **Grand Tours** Jupiter (planet) ... vorticity equations . Vostok spacecraft ... Vostok 3 spacecraft Jupiter probes . . . Helmholtz vorticity equation

Vostok 4 spacecraft

GS manned spacecraft

reentry vehicles

Vostok spacecraft

.. Vostok 4 spacecraft

. recoverable spacecraft

... Vostok 4 spacecraft

. . Vostok spacecraft

flow equations . vorticity equations

vorticity transport hypothesis

Karman vortex street

Von Karman equation

RT ∞ equations

GS hypotheses

. . Helmholtz vorticity equation

unmanned spacecraft

Jupiter rings

DEF A spacecraft launched in the 1977 Voy-

interplanetary spacecraft

. Voyager 2 spacecraft

∞ spacecraft

Voyager 2 spacecraft

ager mission.

### Voyager 1977 mission

. space probes

. Voyager 2 spacecraft

flyby missions **Grand Tours** Jupiter (planet)

Jupiter probes Neptune (planet) Saturn (planet)

 spacecraft Uranus (planet)

Voyager 1977 mission

DEF The launching of two advanced threeaxis attitude stabilized spacecraft for the exploration of Jovian and Saturnian environments including investigation of the gravitational fields, atmospheric dynamics, and magnetospheres of these planets.

space missions

. flyby missions

. . Grand Tours

. Voyager 1977 mission

interplanetary spacecraft

Jupiter (planet) Jupiter probes

∞ missions

solar system space probes

Voyager project

GS programs

. NASA programs

. . NASA space programs

Voyager project

. projects

... Voyager project

. space programs

. . NASA space programs

. Voyager project

Mars probes Saturn project space probes unmanned spacecraft Venus probes

Voyageur helicopter

ÚSE CH-46 helicopter

VR (virtual reality) USE virtual reality

VSAT (network)

very small aperture terminals GS

data processing equipment . data processing terminals
. . VSAT (network)

networks

. communication networks

. VSAT (network)

. satellite networks

. VSAT (network)

Aloha system apertures

ARPA computer network computer networks

data links

data transmission distributed processing Earth terminals

interprocessor communication

local area networks microwave transmission needs (data system) personal computers random access superhigh frequencies telecommunication

VTOL

USE vertical landing vertical takeoff

VTOL aircraft

vertical takeoff aircraft USE

Vulcan aircraft

AVRO 698 aircraft GS attack aircraft . bomber aircraft

. Vulcan aircraft

Hawker Siddeley aircraft

Vulcan aircraft

iet aircraft

Vulcan aircraft

tailless aircraft

. Vulcan aircraft

RT ∞ aircraft AVRO 707 aircraft Harrier aircraft

vulcanizates

vulcanized elastomers USE

vulcanized elastomers

UF gum vulcanizates vulcanizates

GS elastomers

. rubber

. . synthetic rubbers

... vulcanized elastomers

.... RTV-40 rubber (trademark)

. RTV-60 rubber (trademark)

addition resins polyether resins thermoplastic resins

vulcanizing

vulcanizing

A chemical reaction in which the physical properties of a rubber are changed in the direction of decreased plastic flow, less surface tackiness, and increased tensile strength by reacting it with sulfur or other suitable agents.

GS crosslinking

. vulcanizing

curing

vulcanized elastomers

vulnerability

GS vulnerability

nuclear vulnerability

aircraft reliability

aircraft survivability airport security durability integrity life (durability) obstacle avoidance penetration piercing reliability ∞ resistance security sensitivity spacecraft defense spacecraft survivability stability

Vycor

GS fibers

. synthetic fibers

. Vycor

glass . Vycor

semiconductors (materials)

. Vycor

RT glass fibers ∞ materials

silicon dioxide

VZ-2 aircraft

GS Boeing aircraft

. VZ-2 aircraft research vehicles

. research aircraft

. . VZ-2 aircraft

tilt wing aircraft

. VZ-2 aircraft V/STOL aircraft

. VZ-2 aircraft

 $RT \, \infty \, aircraft$ 

VZ-8 aircraft

Airgeep aircraft GS

light aircraft

VZ-8 aircraft

Piasecki aircraft

. VZ-8 aircraft

research vehicles . research aircraft

VZ-8 aircraft

V/STOL aircraft

. vertical takeoff aircraft

. . VZ-8 aircraft

RT ∞ aircraft

flying platforms

VZ-10 aircraft

USE XV-4 aircraft

VZ-11 aircraft

USE XV-5 aircraft

VZ-12 aircraft

USE P-1127 aircraft



W stars vortex alleviation gates (openings) USE Wolf-Rayet stars housings vortices limiters (fusion reactors) W wings
USE variable sweep wings Wales panels (added November 1989) partitions (structures) nations . United Kingdom sandwich structures W2F aircraft sheaths USE E-2 aircraft . Wales shells (structural forms) RT Europe sides Wabash River Basin (IL-IN-OH) studs (structural members) walking GS landforms substructures . structural basins locomotion GS tiles . . river basins walking .. Wabash River Basin (IL-IN-OH) aait Walsh function analysis (mathematics) physical exercise GS Indiana . complex variables running Ohio . . orthogonal functions . . . Walsh function rivers walking machines surface vehicles functions (mathematics) GS walking machines wadis . orthogonal functions A term used in the desert regions of astronaut maneuvering equipment Walsh function Southwest Asia and Northern Africa for a stream gait fast Fourier transformations bed or channel, or a steep sided and bouldery lunar surface vehicles Fourier transformation ravine, gully or valley, or a dry wash, that is ∞ machinery functional analysis usually dry except during the rainy season and manned lunar surface vehicles matrices (mathematics) that often forms an oasis. prosthetic devices landforms WAN GS . structural basins wall flow USE wide area networks . . river basins fluid flow GS Wankel engines .. wadis wall flow arid lands RT GS engines boundary layer flow desertification . internal combustion engines channel flow . . rotary engines rivers conical flow streams discharge coefficient RT aircraft engines automobile engines topography ducted flow valleys Goertler instability piston engines water runoff heat transmission Manning theory war games wafers two dimensional flow RT microelectronics games two dimensional jets GS . war games digital simulation microminiaturization miniaturization wall jets photomasks game theory fluid amplifiers RT mathematical models semiconductor devices jet boundaries operations research solid state devices jet flow simulation thin films jet vanes vertical junction solar cells ∞ jets warfare GS warfare wage surveys wall pressure . antiship warfare GS reports pressure . antisubmarine warfare wage surveys wall pressure . chemical warfare surveys boundary layers . combat wage surveys pressure distribution . electronic warfare cost analysis pressure vessels . nuclear warfare RT attacking (assaulting) cost estimates thick walls cost reduction B-1 aircraft employee relations wall temperature finance surface properties chemical defense personnel . surface temperature evasive actions . wall temperature infiltration wakefulness temperature international law RT alertness . surface temperature ordnance sleep deprivation . wall temperature peacetime Brinkman number politics strategy wakes operating temperature GS wakes thick walls violence . aircraft wakes . . helicopter wakes Wallops Island warheads . . slipstreams GS landforms Originally the parts of the missile car-. propeller slipstreams . islands rying the explosive, chemical, or other charge . hypersonic wakes . Wallops Island intended to damage the enemy. By extension, . laminar wakes Atlantic Ocean the term is sometimes used as synonymous with . near wakes payload or nose cone. Virginia . supersonic wakes GS weapons . turbulent wakes walls warheads . . slipstreams cold walls . . nuclear warheads . . propeller slipstreams walls . . precision guided projectiles backwash . bulkheads ammunition base flow antiship warfare . nozzle walls bubbles porous walls bombs (ordnance) thick walls explosive devices cavitation flow thin walls contrails explosives downwash . Trombe walls ∞ fuses wind tunnel walls fuses (ordnance) ∞ draft RT ∞ barriers missile components drag ground effect (aerodynamics) buildings missiles horseshoe vortices nose cones curtains

enclosures

floors

Strouhal number

turbulence

nuclear devices

nuclear weapons

|          | payloads                        | ۰              | ∘ systems  |       | wrought alloys                    |
|----------|---------------------------------|----------------|--|-------|-----------------------------------|
|          | projectiles                     |                | threat evaluation  |       |                                   |
| 00       | rockets                         |                |  |       |                                   |
|          | shaped charges                  | warpag         | e  |       | disposal                          |
|          | torpedoes                       | RT             | bending  | GS    | disposal                          |
|          | •                               |                | buckling   |       | . waste disposal                  |
| warm blo | ooded animals                   |                | camber   |       | composting                        |
| USE      | homeotherms                     |                | damage   |       | hazardous material disposal (in   |
|          |                                 |                | deformation  |       | space)                            |
| warm fro | onts                            |                | distortion   |       | management                        |
|          | fronts (meteorology)            |                |  |       | . waste management                |
| GS       |                                 |                | growth   |       |                                   |
| DT       | . warm fronts                   |                | heaving  |       | waste disposal                    |
| RT       | air masses                      |                | plastic deformation  |       | composting                        |
|          | cold fronts                     |                | shrinkage  |       | hazardous material disposal (ir   |
| 00       | fronts                          |                | structural strain  |       | space)                            |
|          | meteorological parameters       |                | surface distortion   | RT    | air pollution                     |
|          | meteorology                     |                | thermal expansion  |       | deep well injection (wastes)      |
|          | storms                          |                | twisting   |       | dewatering                        |
|          | synoptic meteorology            |                | g  |       | dilution                          |
|          | thunderstorms                   | ∞ washer       | re.  |       | dissipation                       |
|          | tornadoes                       | ∞ washei<br>SN |  |       | drainage                          |
|          | weather forecasting             | SIN            | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |       | effluents                         |
|          | weather lorecasting             |                | LISTED BELOW)  |       |                                   |
|          |                                 | RT             | washers (cleaners)   |       | elimination                       |
| warming  |                                 |                | washers (spacers)  |       | environment effects               |
| USE      | heating                         |                | (0,)   |       | environment pollution             |
|          |                                 | washor         | s (cleaners)   |       | environment protection            |
| warning  |                                 | RT             | cleaners   |       | environmental chemistry           |
| RT       | accident prevention             | KI             |  |       | environmental cleanup             |
|          | auditory signals                |                | concentrators  |       | environmental engineering         |
|          | bells                           |                | extraction   |       | environmental surveys             |
|          | civil defense                   |                | separators   |       | exhaust gases                     |
|          | collision avoidance             | ۰              | ∘ washers  |       |                                   |
|          | detection                       |                | washing  |       | exhaust systems                   |
|          |                                 |                |  |       | garbage                           |
| 00       | detectors                       | washer         | s (spacers)  |       | hazardous materials               |
|          | early warning systems           | GS             | fasteners  |       | hazardous wastes                  |
|          | fire prevention                 | 00             | . washers (spacers)  |       | human wastes                      |
|          | horns                           | DT             | ,                      |       | incinerators                      |
|          | mine detectors                  | RT             | inserts  |       | industrial wastes                 |
|          | monitors                        |                | separators   |       | landfills                         |
|          | protection                      |                | spacers  |       | manures                           |
|          | safety                          | ۰              | ∘ washers  |       | materials handling                |
|          | safety devices                  |                |  |       |                                   |
|          | Saicty acrises                  | washin         | g  |       | metabolic wastes                  |
| warning  | dovicos                         | UF             | scrubbing  |       | mines (excavations)               |
| warning  |                                 | GS             | cleaning   |       | Modular Integrated Utility System |
| USE      | warning systems                 |                | . washing  |       | pipelines                         |
|          |                                 |                | bathing  |       | plasma core reactors              |
| warning  |                                 | RT             | •  |       | pollution                         |
| USE      | warning systems                 | KI             | beneficiation  |       | ponds                             |
|          |                                 |                | decontamination  |       | radioactive wastes                |
| Warning  | Star aircraft                   |                | dissolving   |       | sanitation                        |
| USE      | C-121 aircraft                  |                | distillation   |       | sewage                            |
|          |                                 |                | elution  |       | •                                 |
| warning  | systems                         |                | flushing   |       | sewage treatment                  |
| UF       | alarms                          |                | housekeeping (spacecraft)                                    |       | sewers                            |
| Oi       | collision warning devices       |                | purification   |       | soil pollution                    |
|          | •                               |                | scrubbers  |       | solid wastes                      |
|          | warning devices                 |                | • separation   |       | space flight feeding              |
|          | warning signals                 |                | •  |       | ∞ storage                         |
| GS       | warning systems                 |                | washers (cleaners)   |       | sumps                             |
|          | . early warning systems         |                | waste water  |       | toilets                           |
|          | Ballistic Missile Early Warning |                |  |       | utilities                         |
|          | System                          | Washin         | gton   |       | wastes                            |
|          | . mine detectors                | GS             | nations  |       | water pollution                   |
| RT       | accident prevention             |                | . United States  |       | water polition                    |
|          | auditory signals                |                | Washington   |       |                                   |
|          | avoidance                       | RT             | Cascade Range (CA-OR-WA)                                     | wests | oporav utilization                |
|          | bells                           | ***            | Columbia River Basin (ID-OR-WA)                              |       | energy utilization                |
|          |                                 |                | Columbia (1170) Baoin (18 Ott 1771)                          | GS    | utilization                       |
|          | civil defense                   | washau         | t (radioactivity)  |       | . waste energy utilization        |
|          | collision avoidance             |                | 1  | RT    | boilers                           |
|          | detection                       | USE            | fallout  |       | burners                           |
| ∞        | detectors                       |                |  |       | chimneys                          |
|          | display devices                 | WASP 9         | sounding rocket  |       | cogeneration                      |
|          | explosions                      | UF             | high altitude sounding projectile                            |       | energy conversion                 |
|          | false alarms                    |                | window atmosphere sounding                                   |       | exergy                            |
|          | fire prevention                 |                | projectile   |       | exhaust gases                     |
|          | fires                           | GS             | rocket vehicles  |       |                                   |
|          | gas detectors                   |                | . multistage rocket vehicles                                 |       | furnaces                          |
|          |                                 |                | WASP sounding rocket   |       | heat transfer                     |
|          | hazards                         |                |  |       | heating                           |
|          | head-up displays                |                | . sounding rockets   |       | incinerators                      |
|          | horns                           |                | WASP sounding rocket   |       | lighting equipment                |
|          | monitors                        | RT             | Loki rocket vehicle  |       | ovens                             |
|          | National Severe Storms Project  |                | solid propellant rocket engines                              |       | solid wastes                      |
|          | pollution monitoring            |                | -  |       | space heating (buildings)         |
|          | protection                      | Waspal         | ov   |       | waste heat                        |
|          | public address systems          | GS             | alloys   |       |                                   |
|          |                                 | 63             | ,  |       | wastes                            |
|          | safety                          |                | . heat resistant alloys                                      |       |                                   |
|          | safety devices                  |                | Waspaloy   | -     | Long                              |
|          | safety management               |                | . nickel alloys  | waste |                                   |
|          | sanitation                      |                | Waspaloy   | RT    | energy technology                 |
|          | sirens                          | RT             | chromium alloys  |       | heat exchangers                   |
|          | sound generators                |                | cobalt alloys  |       | heat pumps                        |
|          |                                 |                |  |       |                                   |

|              | waste energy utilization  | air poliution  |         | oxides  |
|--------------|---|--|---------|---|
| wooto n      | nanagamant  | beneficiation  |         | peninsulas  |
|              | nanagement  | by-products  |         | pollution   |
|              | ed March 1997)  | combustion products  |         | precipitation (meteorology)   |
| GS           | management  | contaminants   |         | runway conditions   |
|              | . waste management  | debris   |         | slush   |
|              | waste disposal  | effluents  |         | sounds (topographic features)   |
|              | composting  | environment effects  |         | ,   |
|              | hazardous material disposal (in   |  |         | steam   |
|              |   | exhaust gases  |         | straits   |
|              | space)  | forest fires   |         | utilities   |
|              | waste treatment   | fumes  |         | water sampling  |
|              | sewage treatment  | gas recovery   |         | water splitting   |
|              | waste utilization   | impurities   |         | watersheds  |
| RT           | environment management  | leakage  |         | wharves   |
|              | environmental engineering   |  |         |   |
|              | landfills   | losses   |         | windpowered pumps   |
|              |   | nonpoint sources   |         |   |
|              | life support systems  | organic wastes (fuel conversion)   |         | balance   |
|              | materials recovery  | pollution  | GS      | balance   |
|              | reclamation   | residues   |         | . material balance  |
|              | recycling   | scrap  |         | water balance   |
|              | sanitation  | sewers   | RT      | body fluids   |
|              |   |  | IXI     |   |
|              | underground storage   | slags  |         | edema   |
|              | wastes  | sludge   |         | ∞ equilibrium   |
|              |   | waste disposal   |         | homeostasis   |
| waste to     | reatment  | waste energy utilization   |         | hydrometeorology  |
| DEF          | The processing of waste materials (liq-   | waste management   |         | lysimeters  |
| uid and      | solid) with chemicals, high temperature,  | waste treatment  |         | osmosis   |
|              | g, grinding, and filtering equipment, bac-  |  |         |   |
|              |   | waste utilization  |         | urination   |
|              | tion, dryers, separators, for conversion  |  |         |   |
|              | Il products.  | watches  | water o | circulation   |
| GS           | management  | USE clocks   | GS      | circulation   |
|              | . waste management  | OSL CIOCKS   |         | . water circulation   |
|              | waste treatment   |  |         | water currents  |
|              | sewage treatment  | water  |         | ocean currents  |
| RT           | bacteria  | DEF Dihydrogen oxide (molecular formula  |         |   |
| IXI          |   | H20). The word is used ambiguously to refer to   |         | coastal currents  |
|              | composting  |  |         | el Nino   |
|              | environmental cleanup   | the chemical compound in general and to its  |         | Gulf Stream   |
|              | garbage   | liquid phase; when the former is meant, the term   |         | Lomonosov current   |
|              | residues  | water substance is often used.   |         | thermohaline circulation  |
|              | sludge  | GS water   | RT      | lakes   |
|              | •   | . cold water   | 17.1    |   |
| 00           | • treatment   |  |         | oceanography  |
|              | wastes  | deep water   |         | pollution transport   |
|              |   | . fresh water  |         | wind effects  |
| waste u      | ıtilization   | . heavy water  |         |   |
| GS           | management  | . inland waters  | water o | color   |
|              | . waste management  | ground water   | GS      | electromagnetic properties  |
|              |   | . extraterrestrial water   | 00      |   |
|              | waste utilization   |  |         | optical properties  |
|              | utilization   | . light water  |         | color   |
|              | . waste utilization   | . nearshore water  |         | water color   |
| RT           | biomass energy production   | coastal water  | RT      | Coastal Zone Color Scanner  |
|              | composting  | . polywater  |         | dissolved organic matter  |
|              |   | . potable water  |         |   |
|              | hydrocarbon fuel production   | •  |         | lakes   |
|              | industrial wastes   | . sea water  |         | ocean color scanner   |
|              | landfills   | . shallow water  |         | oceans  |
|              | manures   | . shoals   |         | rivers  |
|              | renewable energy  | . springs (water)  |         | Sea-viewing Wide Field-of-view  |
|              | solid wastes  | . surface water  |         | Sensor  |
|              | wastes  | . vadose water   |         | Gerisoi   |
|              | wasies  | . waste water  | water   |   |
|              |   |  |         | consumption   |
| waste v      |   | RT aquifers  | GS      | consumption   |
| GS           | wastes  | arroyos  |         | . water consumption   |
|              | . liquid wastes   | bay ice  | RT      | drought   |
|              | waste water   | body fluids  |         | irrigation  |
|              | water   | cavitation flow  |         | seepage   |
|              |   | fiords   |         | seepage   |
| БТ           | . waste water   |  |         |   |
| RT           | bathing   | humidity   | water o |   |
|              | cleaning  | hydrates   | USE     | moisture content  |
|              |   |  |         |   |
|              | flushing  | ∞ hydraulics   |         |   |
|              | flushing  |  | water   | cooled reactors   |
|              | flushing industrial wastes  | hydrodynamics  |         |   |
|              | flushing industrial wastes residues   | hydrodynamics<br>hydrogen bonds  | UF      | physical constants testing reactor  |
|              | flushing<br>industrial wastes<br>residues<br>washing  | hydrodynamics<br>hydrogen bonds<br>hydrogen compounds  |         | physical constants testing reactor nuclear reactors   |
|              | flushing industrial wastes residues   | hydrodynamics<br>hydrogen bonds<br>hydrogen compounds<br>hydrology   | UF      | physical constants testing reactor<br>nuclear reactors<br>. liquid cooled reactors  |
|              | flushing<br>industrial wastes<br>residues<br>washing  | hydrodynamics<br>hydrogen bonds<br>hydrogen compounds<br>hydrology<br>hydromechanics   | UF      | physical constants testing reactor<br>nuclear reactors<br>. liquid cooled reactors<br>water cooled reactors   |
| wastes       | flushing<br>industrial wastes<br>residues<br>washing  | hydrodynamics<br>hydrogen bonds<br>hydrogen compounds<br>hydrology   | UF      | physical constants testing reactor<br>nuclear reactors<br>. liquid cooled reactors  |
| wastes<br>GS | flushing<br>industrial wastes<br>residues<br>washing<br>water cooled reactors   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics  | UF      | physical constants testing reactor<br>nuclear reactors<br>. liquid cooled reactors<br>water cooled reactors<br>boiling water reactors   |
|              | flushing industrial wastes residues washing water cooled reactors   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice  | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors experimental boiling water  |
|              | flushing industrial wastes residues washing water cooled reactors  wastes . garbage   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses  | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors water cooled reactors boiling water reactors experimental boiling water reactors   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes . garbage . industrial wastes   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie  | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor  |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors boiling water reactors experimental boiling water reactors Halden Boiling Water Reactor Los Alamos Water Boiler  |
|              | flushing industrial wastes residues washing water cooled reactors  wastes . garbage . industrial wastes   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie  | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors Halden Boiling Water Reactor Los Alamos Water Boiler Reactor  |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors boiling water reactors experimental boiling water reactors Halden Boiling Water Reactor Los Alamos Water Boiler  |
|              | flushing industrial wastes residues washing water cooled reactors  wastes . garbage . industrial wastes . liquid wastes . urine . waste water   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan  | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors experimental boiling water reactors Halden Boiling Water Reactor Los Alamos Water Boiler Reactor Pathfinder nuclear reactor   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors  |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes  | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes human wastes   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior laterites   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors . heavy water components test   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes  | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes human wastes   | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior laterites   | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors . heavy water components test   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes human wastes urine feces urine                         | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior laterites life support systems limnology                    | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors . heavy water components test reactors . plutonium recycle test reactor   |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes human wastes urine hazardous wastes                    | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior laterites life support systems limnology liquids            | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors . heavy water components test reactors . plutonium recycle test reactor . zero power reactor 2                        |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes human wastes urine hazardous wastes radioactive wastes | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior laterites life support systems limnology liquids moderators | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors . heavy water components test reactors . plutonium recycle test reactor . zero power reactor 2 . light water reactors |
|              | flushing industrial wastes residues washing water cooled reactors  wastes garbage industrial wastes liquid wastes urine waste water manures metabolic wastes human wastes urine hazardous wastes                    | hydrodynamics hydrogen bonds hydrogen compounds hydrology hydromechanics hydrostatics ice isthmuses Lake Erie Lake Huron lake ice Lake Michigan Lake Ontario Lake Superior laterites life support systems limnology liquids            | UF      | physical constants testing reactor nuclear reactors . liquid cooled reactors . water cooled reactors . boiling water reactors . experimental boiling water reactors . Halden Boiling Water Reactor . Los Alamos Water Boiler Reactor . Pathfinder nuclear reactor . Spert reactors . heavy water reactors . heavy water components test reactors . plutonium recycle test reactor . zero power reactor 2                        |

muskegs

RT activated sludge

. . . pressurized water reactors

|         | spectral shift control reactor        |   | pipelines  |         | watersheds                          |
|---------|---------------------------------------|---|--|---------|-------------------------------------|
|         | swimming pool reactors                |   | rams (pumps)   |         |                                     |
|         | zero power reactors                   |   | surges   |         |                                     |
|         | zero power reactor 2                  |   | valves   | water r |                                     |
|         | zero power reactor 3                  |   |  | GS      | emission                            |
|         | zero power reactor 6                  | water h                                 | neating  |         | . water masers                      |
|         | zero power reactor 9                  | DEF                                     | The heating of water by any means                            |         | stimulated emission devices         |
| RT      | chemical reactors                     | includin                                | g solar technology.  |         | . masers                            |
|         | nuclear engine for rocket vehicles    | GS                                      | heating  |         | water masers                        |
|         | ∞ reactors                            |   | . water heating  | RT      | gas lasers                          |
|         | waste water                           | RT                                      | domestic energy  |         | gas masers                          |
|         | waste water                           | • | geothermal energy extraction                                 |         | interstellar masers                 |
| vater c | ooling                                |   | heat exchangers  |         | maser outputs                       |
|         | liquid cooling                        | ,                                       | ∞ heaters  |         | •                                   |
| UUL     | ilquia cooliilg                       | ,                                       | heating equipment  |         |                                     |
| vator c | urrents                               |   | residential energy   |         | moderated reactors                  |
|         | Net transport of water along a defin- |   | temperature control  | GS      |                                     |
|         | th. Used for currents (oceanography). |   | temperature control  |         | . water moderated reactors          |
|         |                                       | water i                                 | mmersion   |         | experimental boiling water reactors |
| UF      | ( 0 / )/                              | RT                                      | baths  |         | heavy water components test         |
| GS      | circulation                           | IXI                                     | liquid cooling   |         | reactors                            |
|         | . water circulation                   |   |  |         | plutonium recycle test reactor      |
|         | water currents                        |   | quenching (cooling)  | RT      | light water reactors                |
|         | ocean currents                        |   | sinking  |         | -                                   |
|         | coastal currents                      |   | ∞ soaking  |         |                                     |
|         | el Nino                               |   | submerged bodies   |         | pollution                           |
|         | Gulf Stream                           |   | submerging   | GS      | pollution                           |
|         | Lomonosov current                     |   | underwater tests   |         | . environment pollution             |
| RT      | arroyos                               |   |  |         | water pollution                     |
|         | ∞ currents                            | water i                                 | njection   |         | oil pollution                       |
|         | oceanography                          | GS                                      | injection  | RT      | algae                               |
|         | rapids                                |   | . fluid injection  |         | alkalinity                          |
|         | sea roughness                         |   | liquid injection   |         | biochemical oxygen demand           |
|         | sea states                            |   | water injection  |         | clean energy                        |
|         |                                       | RT                                      | gas injection  |         |                                     |
|         | surface waves                         | 111                                     | perforating  |         | contamination                       |
|         | tides                                 |   | thrust augmentation  |         | dissolved organic matter            |
|         | upstream                              |   | unust augmentation   |         | drought                             |
|         |                                       | ∞ water i                               | ntokoo   |         | environment effects                 |
|         | ycle (hydrology)                      | ∞ water i                               |  |         | environment protection              |
| USE     | hydrological cycle                    | SIN                                     | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |         | environmental chemistry             |
|         |                                       |   | LISTED BELOW)  |         | environmental cleanup               |
| vater c | leprivation                           | RT                                      | air intakes  |         | environmental quality               |
| GS      | deprivation                           |   | intake systems   |         | environmental surveys               |
|         | water deprivation                     |   | manifolds  |         | inland waters                       |
|         | ·                                     |   | nose inlets  |         | landfills                           |
| vater c | lepth                                 |   | plenum chambers  |         | limnology                           |
| RT      | cnoidal waves                         |   | •  |         |                                     |
|         | coastal water                         |   | scoops   |         | lysimeters                          |
|         | lakes                                 |   | side inlets  |         | marine resources                    |
|         |                                       |   |  |         | oil slicks                          |
|         | nearshore water                       | water je                                |  |         | phytoplankton                       |
|         | oceans                                | USE                                     | hydraulic jets   |         | pollution monitoring                |
|         | shallow water                         |   |  |         | pollution transport                 |
|         | shoals                                | water I                                 | anding   |         | purity                              |
|         |                                       | GS                                      | landing  |         | soil pollution                      |
| vater e | erosion                               |   | . water landing  |         | thermal pollution                   |
| GS      | erosion                               | RT                                      | aircraft landing   |         | waste disposal                      |
|         | . water erosion                       |   | crash landing  |         | water sampling                      |
| RT      | arroyos                               |   | ditching (landing)   |         |                                     |
|         | canyons                               |   | glide landings   |         |                                     |
|         | drainage patterns                     |   | hard landing   | water p | oressure                            |
|         | flood damage                          |   | horizontal spacecraft landing                                | GS.     | pressure                            |
|         | rain impact damage                    |   | hydroplaning   |         | . fluid pressure                    |
|         | ravines                               |   | planetary landing  |         | water pressure                      |
|         | soil erosion                          |   | soft landing   | RT (    | ∞ hydraulics                        |
|         | wind erosion                          |   | spacecraft landing   |         | hydrodynamics                       |
|         | WING CIOSION                          |   |  |         | hydrostatic pressure                |
| vater f | low                                   |   | spacecraft recovery  |         | hydrostatics                        |
|         |                                       |   | splashing  |         | •                                   |
| GS      |                                       |   | touchdown  |         | inlet pressure                      |
|         | liquid flow                           |   |  |         | pipe flow                           |
|         | water flow                            | water I                                 |  |         |                                     |
| RT      | alluvium                              | RT                                      | dehydration  | water   | purification                        |
|         | canals                                |   | drying   |         | water treatment                     |
|         | drainage                              |   | evaporation  | USE     | water treatment                     |
|         | drainage patterns                     |   | losses   |         |                                     |
|         | flood damage                          |   |  | wotor   | nuclity                             |
|         | floods                                | water r                                 | nanagement   | water o |                                     |
|         | flow measurement                      | GS                                      | management   | GS      | quality                             |
|         | Great Lakes (North America)           |   | . water management   |         | . environmental quality             |
|         | ground water                          | RT                                      | conservation   |         | . water quality                     |
|         | y hydraulics                          | 17.1                                    | drought  | RT      |                                     |
| c       |                                       |   | •  |         | environment effects                 |
|         | hydrodynamics                         |   | environment management                                       |         | water sampling                      |
|         | hydrology models                      |   | floods   |         |                                     |
|         | open channel flow                     |   | hydrology  |         |                                     |
|         | pipe flow                             |   | Lake Erie  |         | reclamation                         |
|         | rapids                                |   | Lake Huron   | UF      |                                     |
|         | watersheds                            |   | Lake Michigan  | GS      | reclamation                         |
|         |                                       |   | Lake Ontario   |         | . materials recovery                |
| vater h |                                       |   | Lake Superior  |         | water reclamation                   |
|         | nammer                                |   | Lake Superior  |         |                                     |
| RT      |                                       |   |  | RT      |                                     |
|         | hydraulic equipment                   |   | limnology  | RT      | conservation                        |
|         |                                       |   |  | RT      |                                     |

|          | pollution                                  |           | subsonic aircraft                                       |          | ballistic missile submarines                       |
|----------|--|-----------|---|----------|--|
| water r  | ocovon/                                    |           | transport aircraft                                      |          | guided missile submarines                          |
|          | ecovery water reclamation                  |           | utility aircraft  |          | trident submarine underwater research laboratorie: |
|          |  | water tei | nperature   | RT       | amphibious vehicles                                |
|          | esources                                   | GS        | temperature   |          | harbors  |
| GS       | resources                                  |           | water temperature                                       |          | marine transportation                              |
|          | . Earth resources                          |           | ocean temperature                                       |          | ∞ military vehicles                                |
|          | water resources aquifers                   |           | sea surface temperature surface temperature             |          | research vehicles                                  |
| RT       | environment effects                        |           | temperature distribution                                |          | shipyards<br>surface vehicles                      |
|          | environment management                     |           | thermal pollution                                       |          | ∞ vehicles   |
|          | Great Lakes (North America)                |           |   |          | VOINGIGG   |
|          | ground water                               | water tre | atment  | water    | waves  |
|          | hydrology                                  |           | water purification                                      | GS       | water waves  |
|          | inland waters                              |           | activated carbon  |          | tidal waves  |
|          | International Hydrological Decade          |           | adsorption  | RT       | breakwaters  |
|          | lakes<br>limnology                         |           | aeration<br>agitation                                   |          | capillary waves<br>cnoidal waves                   |
|          | oceans                                     |           | bentonite   |          | elastohydrodynamics                                |
|          | ponds                                      |           | biochemical oxygen demand                               |          | frontal waves                                      |
|          | potable water                              |           | chlorination  |          | gravity waves                                      |
|          | precipitation (meteorology)                |           | coagulation   |          | hydrodynamic coefficients                          |
|          | Pyramid Lake (NV)                          |           | contaminants  |          | littoral transport                                 |
|          | rainmaking                                 |           | corrosion prevention                                    |          | ocean dynamics                                     |
|          | reservoirs                                 |           | demineralizing  |          | ripples  |
|          | sea water                                  |           | desalinization  |          | sea roughness                                      |
|          | underwater resources                       |           | environmental cleanup                                   |          | sea states   |
|          | wetlands windpowered pumps                 |           | filtration<br>flocculating                              |          | surface waves tsunami waves                        |
|          | windpowered pumps                          |           | flotation   |          | water tunnel tests                                 |
| water r  | unoff                                      |           | ion exchanging  |          | waterwave energy                                   |
| RT       | drainage                                   |           | material absorption                                     |          | waterwave energy conversion                        |
|          | ground water                               |           | pollution   |          | waterwave powered machines                         |
|          | inland waters                              |           | potable water   |          | ∞ waves  |
|          | resources management                       |           | purification  |          |  |
|          | rivers                                     |           | screening   | water    |  |
|          | wadis                                      |           | settling  | GS       |  |
| water s  | ampling                                    |           | sewage<br>treatment                                     | рт       | . water wheels<br>hydroelectric power stations     |
|          | ed March 1998)                             | ∞         | ireatment   | KI       | turbine wheels                                     |
|          | The process of obtaining a represen-       | water tu  | nnel tests  |          | tarbino whoolo                                     |
|          | ample of water from any natural or artifi- |           | air water interactions                                  | waterf   | owl  |
| cial env | rironment.                                 |           | cross flow  | GS       | animals  |
| GS       | sampling                                   |           | flow distribution                                       |          | . vertebrates                                      |
|          | water sampling                             |           | flow visualization                                      |          | birds  |
| RT       | environmental monitoring                   |           | strakes   | БТ       | waterfowl  |
|          | ground water                               |           | tests   | RT       | beaches  |
|          | pollution monitoring sea water             |           | water waves<br>wind tunnel tests                        |          | coastal ecology<br>marine biology                  |
|          | surface water                              |           | wind turner tests                                       |          | marine environments                                |
|          | water                                      | water tur | nnels   |          | marshlands   |
|          | water pollution                            |           | hydraulic test tunnels                                  |          | migration  |
|          | water quality                              |           |   |          | oceanography                                       |
|          |  | water va  |   |          | wetlands   |
|          | plitting                                   |           | Water (H20) in gaseous form. Also                       |          | _  |
|          | ed September 1988)                         |           | ueous vapor.  |          | proofing   |
| GS       | splitting                                  |           | vapors  | RI       | barrier layers                                     |
| RT       | . water splitting electrolysis             |           | . water vapor<br>atmospheric moisture                   |          | caulking coatings                                  |
| KI       | hydrogen fuels                             |           | dew   |          | hydrophobicity                                     |
|          | hydrogen production                        |           | humidity  |          | insulation   |
|          | thermochemistry                            |           | mixing ratios   |          | moisture resistance                                |
|          | water                                      |           | moisture  |          | protective coatings                                |
|          |  |           | moisture content  |          | sealing  |
| water t  |  |           | steam   |          | weatherproofing                                    |
| RT       | aquifers                                   |           | D.L.  |          |  |
|          | drainage                                   | water ve  |   | waters   |  |
|          | ground water                               |           | water vehicles  | UF<br>GS | catchment areas                                    |
|          | potable water<br>springs (water)           |           | . boats<br>lifeboats                                    | GS       | landforms . structural basins                      |
|          | vadose water                               |           | . captured air bubble vehicles                          |          | watersheds   |
|          | watersheds                                 |           | . ships   | RT       | divides (landforms)                                |
|          |  |           | Advanced Range Instrumentation                          |          | drainage patterns                                  |
| water t  | akeoff and landing aircraft                |           | Ship  |          | flood control                                      |
| GS       | water takeoff and landing aircraft         |           | . aircraft carriers                                     |          | floods   |
|          | . seaplanes                                |           | cargo ships   |          | hydrogeology                                       |
| RT «     | ∞ aircraft                                 |           | Savannah nuclear ship                                   |          | hydrology  |
|          | amphibious aircraft                        |           | tanker ships  |          | International Hydrological Decade                  |
|          | antisubmarine warfare aircraft             |           | nuclear powered ships                                   |          | Missouri River Basin (US)                          |
|          | commercial aircraft ground effect machines |           | Savannah nuclear ship<br>satellite communications ships |          | mountains ponds                                    |
|          | hovercraft ground effect machines          |           | satellite communications snips<br>submarines            |          | precipitation (meteorology)                        |
|          | light aircraft                             |           | ballistic missile submarines                            |          | rain   |
|          | monoplanes                                 |           | guided missile submarines                               |          | river basins                                       |
|          | passenger aircraft                         |           | trident submarine                                       |          | rivers   |
|          | reconnaissance aircraft                    |           | surface effect ships                                    |          | storms (meteorology)                               |
|          | S-61 helicopter                            |           | SWATH (ship)  |          | valleys  |
|          | sea launching                              |           | . underwater vehicles                                   |          | water  |
|          | submersible aircraft                       |           | submarines  |          | water flow   |

water management water tables

### waterwave energy

GS renewable energy

waterwave energy clean energy

Earth resources

∞ energy

oceanography tidepower

water waves ∞ waves

# waterwave energy conversion GS energy conversion

waterwave energy conversion

 $RT \, \infty \, conversion$ 

Earth resources

energy conversion efficiency

∞ energy sources ocean currents

ocean surface oceanography

oceans

renewable energy

sea roughness

tide powered generators

tide powered machines

tidepower tides water waves

### waterwave powered machines

RT ∞ machinery

ocean currents

ocean surface sea roughness

tide powered generators

tide powered machines

tidepower tides water waves

Navigable streams or canals; also channels for the passage or escape of water.

GS waterways

. canals

. harbors

. artificial harbors

lakes rivers straits

DEF Instruments for measuring the magnitude of the active power in an electric circuit. They are provided with a scale usually graduated in either watts, kilowatts, or megawatts. If the scale is graduated in kilowatts or megawatts, the instruments are usually designated as kilowattmeters or megawattmeters.

measuring instruments

wattmeters

electrical measurement

electrometers

# wave amplification

GS amplification

wave amplification

baroclinic waves electromagnetic radiation

∞ waves

### wave attenuation

GS attenuation

. wave attenuation

. . acoustic attenuation

... shock wave attenuation

. . radar attenuation

. radio attenuation

atmospheric attenuation electromagnetic absorption electromagnetic missiles infrared absorption radar transmission radio transmission

shock wave propagation

### wave degradation

degradation

wave degradation

attenuation

electromagnetic missiles scattering

shock wave interaction

### wave diffraction

GS diffraction

wave diffraction

RT apodization attenuation crosstalk

diffraction radiation

Fresnel integrals geometrical theory of diffraction

holographic optical elements ∞ interference

traveling wave modulation

### wave dispersion

RT acoustic properties atmospheric refraction

attenuation

∞ coherence

color deflection

diffraction

∞ dispersion

elastic waves electromagnetic radiation

fading

light transmission optical paths

optical properties radiation distribution radio wave refraction

refraction scattering

sound-sound interactions

transmission transmission loss

### wave drag

GS dynamic characteristics

. drag

. . pressure drag

... wave drag

. interference drag

friction drag supersonic drag

# wave equations

(NOT EQUATIONS OF MOTION)

wave equations

Dirac equation

eikonal equation

Ffowcs Williams-Hawkings equation

Klein-Gordon equation

Korteweg-Devries equation Lame wave equations

Schroedinger equation

Boltzmann-Vlasov equation

density wave model

∞ equations

forbidden bands

Helmholtz equations
hyperbolic differential equations partial differential equations

quantum theory

# wave excitation

GS excitation

. wave excitation

. . acoustic excitation harmonic excitation

diffraction radiation stroking tests

∞ waves

### wave front deformation GS

deformation

wave front deformation

RT ∞ interference

thermal lensing

### wave front reconstruction

reconstruction

. wave front reconstruction

acoustical holography diffractometers

holographic interferometry holographic spectroscopy

holography kinoform

microwave holography

photography

white light holography

DEF A continuous surface drawn through the most forward points in wave distrubances that have the same phase.

### GS wave fronts

. shock fronts

caustic lines eikonal equation

∞ fronts

Huygens principle phase coherence

phase velocity shock discontinuity

∞ waves

### wave functions

GS wave functions

. molecular orbitals

Pauli exclusion principle density functional theory forbidden transitions Hartree approximation perturbation theory

square waves time functions

# wave generation

electromagnetic radiation

function generators ∞ generators harmonic generations

shock wave generators wave rotors

# wave incidence control

RT ∞ control

incident radiation

# wave interaction

wave interaction GS

. shock wave interaction

. wave-particle interactions acoustic coupling

coupling

damping

electroacoustic waves

electromagnetic interactions four-wave mixing

 $\infty$  interactions

intermodulation

scattering

modulation orthogonal multiplexing theory

plasma interactions

propagation modes

shock wave luminescence shock wave profiles shock wave propagation

wave motion

wave oscillators

wave packets RT longitudinal waves packets (communication) plasma waves quantum mechanics

### wave propagation

Kirchhoff-Huygens principle UF

GS transmission

USE waves

USE oscillators

transverse waves

### . wave propagation

- . . acoustic propagation
- . sound propagation
- ... diffraction propagation
- . . ground wave propagation
- ionospheric propagation
- . ionospheric F-scatter propagation
- light scattering
- . . . halos
- . . scatter propagation
- . . . ionospheric F-scatter propagation
- . . shock wave propagation
- . transequatorial propagation

acoustic attenuation acoustic microscopes

atmospheric attenuation

attenuation

automatic picture transmission

beam waveguides

∞ coherence coherent radiation

diffraction

double sideband transmission

electromagnetic absorption electromagnetic missiles

electromagnetic wave transmission

evanescent waves Ffowcs Williams-Hawkings equation

geometrical acoustics

group velocity

Huygens principle

hydraulic analogies

ion acoustic waves

Lame wave equations

light transmission

lossy media

microwave attenuation microwave transmission

multipath transmission nonadiabatic theory

phase velocity

plasma acceleration

plasmaguides

∞ propagation

propagation modes propagation velocity

pulse diffraction

radar attenuation

radar transmission

radio attenuation

radio transmission

refraction

Sagnac effect screen effect

shock fronts

shock wave attenuation

short wave radio transmission

single sideband transmission

sound transmission

square waves

stress waves

television transmission

waveforms

whispering gallery modes

Whitham rule

# wave radiation

USE electromagnetic radiation

# wave reflection

reflection

### . wave reflection

. . Mach reflection

ground effect (communications)

reflected waves signal reflection spread reflection

### wave resistance

blast loads erosion

impact strength ∞ resistance

structural stability

### wave rotors

(added March 1998)

Rotor devices that use gasdynamic waves to transfer energy rather than the motion of solid surfaces. Typically, they consist of a series of passages arranged on a drum which rotates about an axis. Through rotation, the ends of the passages are periodically exposed to various circumferentially arranged ports which initiate the traveling expansion or compression waves within the passages. The particular circumferential location of the ports determines the thermodynamic cycle of the working fluid

rotating bodies

. rotors

### . wave rotors

compression waves

energy transfer

engine parts

gas dynamics

gas generators

gas turbine engines

topping cycle engines turbomachinery

turboshafts

wave generation

### wave scattering

GS scattering

### . wave scattering

. . acoustic scattering

... reverberation

. . atmospheric scattering

. tropospheric scattering

electromagnetic scattering
ionospheric F-scatter propagation

light scattering

. halos

. . . microwave scattering

. . . Mie scattering . . . . Rayleigh scattering

Raman spectra

Thomson scattering

x ray scattering

RT Faddeev equations magnetic dispersion

reciprocity theorem

scattering amplitude

scatterometers shock fronts

# waveforms

DEF The graphical representations of waves, showing variation of amplitude with time.

### waveforms

. pulse amplitude

pulse duration

sawtooth waveforms

square waves

form factors

speech baseband compression

time functions wave propagation

### waveguide antennas

antennas

waveguide antennas . horn antennas

corrugated waveguides

dielectric waveguides lens antennas

microstrip antennas

microwave antennas

monopulse antennas radant

slot antennas Yagi antennas

### waveguide filters

electromagnetic wave filters

electric filters . waveguide filters

bandstop filters dielectric waveguides microwave filters

radar filters waveguides

### waveguide lasers

Pump sources for deuterium oxide la-

stimulated emission devices GS

. lasers

. . wavequide lasers

. . fiber lasers

aluminum gallium arsenide lasers

carbon dioxide lasers gallium arsenide lasers

heterojunction devices

infrared lasers laser modes

laser outputs

optical waveguides pulsed lasers

quantum well lasers

semiconductor lasers surface emitting lasers

tube lasers

### waveguide tuners

tuners

waveguide tuners

impedance matching mode transformers yttrium-iron garnet

# waveguide windows

impedance matching

irises (mechanical apertures)

# waveguides

# GS waveguides

beam waveguides

. circular waveguides . Earth-ionosphere waveguide

. optical waveguides

. . optical fibers

. . . scintillating fibers

. corrugated waveguides . dielectric waveguides

. plasmaquides

. rectangular waveguides RT antenna feeds

coaxial cables communication cables

crossed fields electromagnetic surface waves

gyrators

irises (mechanical apertures) microwave switching

microwave transmission parallel plates

plastic fibers

propagation modes

Smith chart transmission lines

# waveguide filters

wavelength division multiplexing The process in which each modulating wave modulates a separate subcarrier and the subcarriers are spaced in wavelengths. This term is used in optical communication where

wavelength usage is preferred over frequency.

GS transmission

. multiplexing wavelength division multiplexing

code division multiplexing

demultiplexing frequency division multiplexing orthogonal multiplexing theory time division multiplexing

# wavelengths

Distance in the direction of propagation of a periodic wave between two successive points at which the phase is the same (at the same time).

GS wavelengths

de Broglie wavelengths

antinodes harmonics infrared radiation laser modes laser outputs

longitudinal waves maser outputs millimeter waves

nodes (standing waves) spectral emission standing waves

Stokes law of radiation

submillimeter waves

whispering gallery modes standing waves solar neutrinos stress waves surface waves weapon system 107A-1 wavelet analysis (added September 1993) surges GS weapon systems wavelet transform tidal waves weapon system 107A-1 cosine series transverse waves Fourier analysis tropospheric waves weapon system 107A-2 Fourier transformation vibration GS weapon systems functions (mathematics) water waves weapon system 107A-2 Gabor transformation waterwave energy wave amplification weapon system 133A image processing orthonormal functions GS weapon systems wave excitation signal analysis weapon system 133A wave fronts signal encoding wavelet analysis weapon system 133B signal processing GS weapon systems sine waves waxes . weapon system 133B time functions GS waxes transformations (mathematics) . ceresin weapon system 315A ∞ waves RT alkanes GS weapon systems coatings . weapon system 315A wavelet transform crude oil USE wavelet analysis finishes weapon system management phase change materials GS management wave-particle interactions . weapon system management (added July 1991) weak energy interactions project management particle interactions ∞ systems GS decay wave-particle interactions weak energy interactions wave interaction . . weak interactions (field theory) weapon systems wave-particle interactions DEF A combination of one or more weapons particle interactions beam interactions with all related equipment, materials, services, . elementary particle interactions electromagnetic interactions weak energy interactions personnel, and means of delivery and deployelectrostatic waves . . weak interactions (field theory) ment (if applicable) required for self-sufficiency. magnetohydrodynamic waves beta particles GS weapon systems magnetohydrodynamics grand unified theory . ground operational support system particle acceleration gravitinos laser weapons plasma acceleration ∞ interactions . missile systems plasma interactions . . Nike X systems particle theory plasma waves Safeguard system plasma-electromagnetic interaction Sentinel system plasma-particle interactions weak interactions (field theory) Success project space plasmas One class of the fundamental interac-. Typhon weapon system tions among elementary particles responsible weapon system 107A-1 waveriders for beta decay of nuclei, and for the decay of weapon system 107A-2 GS aerodynamic configurations elementary particles with lifetimes greater than . weapon system 133A waveriders about 10(-10) seconds such as muons, K meweapon system 133B RT airfoils sons, and lambda hypersons; it is several orders . weapon system 315A caret wings of magnitude weaker that the strong and elec-RT air to surface missiles delta wings tromagnetic interactions and fails to conserve antiship missiles hypersonic flight strangeness or parity. Used for beta interacfire control hypersonic vehicles Harpoon missile lifting bodies UF beta interactions ∞ military aircraft military spacecraft GS decay . weak energy interactions waves missile launchers (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) . weak interactions (field theory) missiles nuclear reactions mobile missile launchers . nuclear interactions nuclear weapons UF crests . weak interactions (field theory) ordnance wave motion particle interactions RT baroclinic waves ∞ rockets . elementary particle interactions breakwaters space weapons .. weak energy interactions cnoidal waves ∞ systems ... weak interactions (field theory) corrugating weapons . nuclear interactions cylindrical waves weapons development . weak interactions (field theory) detonation waves CP violation dilatational waves weapons electroweak interactions (field theory) eikonal equation GS weapons electroweak model elastic waves . guns (ordnance) field theory (physics) grand unified theory electroacoustic waves . . artillery electromagnetic radiation ... howitzers ∞ interactions electromagnetic surface waves ... precision guided projectiles standard model (particle physics) evanescent waves . . rifles strong interactions (field theory) frontal waves . laser weapons ∞ theories gravitational waves . mines (ordnance) . nuclear weapons internal waves ionic waves weakly interacting massive particles . . fission weapons Kelvin waves (added November 1999) . . fusion weapons kilometric waves DEF Hypothetical elementary particles pre-. space weapons dicted by supersymmetry theories, that interact littoral transport . warheads longitudinal waves only through gravity and weak-type interactions; . . nuclear warheads postulated to account for dark matter in the nodes (standing waves) . . precision guided projectiles . biological weapons plane waves Universe. RT ammunition planetary waves cosmions WIMPs (astronomy) refracted waves antiquities seismic waves particles antiship warfare SH waves . elementary particles armed forces (foreign) shock waves . . hypothetical particles armed forces (United States) ∞ ballistic vehicles sine waves ... weakly interacting massive sound waves disarmament particles spherical waves RT dark matter fire control

missing mass (astrophysics)

gunnery training

square waves

|                                  | military technology  |   | lubricant tests   |   | predictions   |
|----------------------------------|--|---|---|---|---|
|                                  | missiles   | 000                                     | resistance  |   | . forecasting   |
|                                  | ordnance   |   | sliding friction  |   | weather forecasting   |
|                                  | Patriot missile  |   | toughness   |   | long range weather forecasting  |
|                                  | projectiles  |   | wear  |   | nowcasting  |
|                                  | shaped charges   |   | wear inhibitors   |   | numerical weather forecasting   |
|                                  | shrapnel   |   | wear tests  |   | statistical weather forecasting   |
|                                  | tanks (combat vehicles)  |   |   | RT  | air masses  |
|                                  | Tomahawk missiles  | wear tes                                | sts   |   | atmospheric models  |
|                                  | torpedoes  | RT                                      | cumulative damage   |   | cirrus shields  |
|                                  | weapon systems   |   | destructive tests   |   | cloud cover   |
|                                  | weapons delivery   |   | erosion   |   | cockpit weather information systems   |
|                                  | wing-fuselage stores   |   | ferrography   |   | cold fronts   |
|                                  | 3  |   | fretting  |   | environmental monitoring  |
| weapon                           | s delivery   |   | friction  |   | flight conditions   |
|                                  | Total requirements for locating the tar-   |   | hardness tests  |   | flood predictions   |
|                                  | ablishing the release conditions, and  | 000                                     | materials tests   |   | GARP Atlantic Tropical Experiment   |
|                                  | ing to the target (if required); includes  |   | quality control   |   | hindcasting   |
|                                  | ction, recognition, and acquisition of the   |   | spalling  |   | humidity  |
|                                  | he weapons release as well as guid-  |   | static tests  |   | meteorological balloons   |
| ance.                            | no weapone release as well as gala   | ~                                       | tests   |   | meteorological flight   |
|                                  | delivery   | ~                                       | tribometers   |   |   |
| 00                               | . weapons delivery   |   | wear resistance   |   | meteorological radar  |
| DT                               |  |   | wear resistance   |   | meteorological satellites   |
|                                  | air defense  | weather                                 |   |   | meteorological services   |
| 00                               | aircraft   |   |   |   | nephanalysis  |
|                                  | defense program  | UF                                      | weather conditions  |   | precipitation (meteorology)   |
|                                  | military technology  | GS                                      | weather   |   | snowstorms  |
|                                  | missile defense  |   | . cold weather  |   | storms  |
|                                  | nuclear weapons  |   | . hot weather   |   | storms (meteorology)  |
| 00                               | rockets  | RT                                      | aircraft accidents  |   | synoptic meteorology  |
|                                  | space weapons  |   | aircraft hazards  |   | warm fronts   |
|                                  | weapons  |   | aircraft safety   |   | wind (meteorology)  |
|                                  | noapono  |   | Alpine meteorology  |   | wind (motoorology)  |
| weanon                           | s development  |   | annual variations   | weather   | fronts  |
|                                  | product development  |   | anvil clouds  |   |   |
| 03                               | . weapons development  |   |   | USE   | fronts (meteorology)  |
| DT                               |  |   | Atmospheric & Oceanographic Inform  | woothor   | mana  |
| RT                               | research and development   |   | Sys   | weather   | •   |
|                                  | weapon systems   |   | atmospheric pressure  | USE   | meteorological charts   |
|                                  |  |   | atmospheric temperature   |   |   |
|                                  | s industry   |   | cap clouds  |   | modification  |
| GS                               | industries   |   | cirrocumulus clouds   | UF  | weather control   |
|                                  | . defense industry   |   | cirrostratus clouds   | GS  | weather modification  |
|                                  | weapons industry   |   | climate   |   | . cloud dispersal   |
| RT                               | armed forces (United States)   |   | climatology   |   | . cloud seeding   |
|                                  | military technology  |   | clouds (meteorology)  |   | . fog dispersal   |
|                                  | ,  |   | flight hazards  |   | . lightning suppression   |
| wear                             |  |   | flight plans  |   | . rainmaking  |
| DEF                              | Damage to a solid surface, generally   |   |   |   | . storm enhancement   |
|                                  | progressive loss of material, due to   |   | Global Atmospheric Research   |   |   |
|                                  | motion between that surface and a  |   | Program   | DT  | . storm suppression   |
|                                  |  |   | long term effects   | RT  | artificial clouds   |
|                                  | ng substance or substances.  |   | meteorological parameters   |   | cloud physics   |
|                                  |  |   |   |   | control   |
| contactir<br>RT                  | abrasion   |   | meteorology   | ∞   |   |
|                                  | abrasion<br>chipping   |   | meteorology<br>METEOSAT satellite   | ∞   | environmental control   |
|                                  | abrasion   |   |   | ∞   |   |
|                                  | abrasion<br>chipping   |   | METEOSAT satellite  | ∞   | environmental control   |
|                                  | abrasion<br>chipping<br>corrosion  |   | METEOSAT satellite navigation aids  | ∞   | environmental control heat islands  |
|                                  | abrasion<br>chipping<br>corrosion<br>damage  |   | METEOSAT satellite<br>navigation aids<br>precipitation (meteorology)<br>runway conditions   | ∞<br>weather  | environmental control<br>heat islands<br>snowstorms   |
|                                  | abrasion<br>chipping<br>corrosion<br>damage<br>depreciation  |   | METEOSAT satellite<br>navigation aids<br>precipitation (meteorology)<br>runway conditions<br>seasons  | weather   | environmental control<br>heat islands<br>snowstorms<br>radar  |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability   |   | METEOSAT satellite<br>navigation aids<br>precipitation (meteorology)<br>runway conditions<br>seasons<br>solar compasses   | weather   | environmental control<br>heat islands<br>snowstorms   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion   |   | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions   | weather<br>USE  | environmental control<br>heat islands<br>snowstorms<br>radar  |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure   |   | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather   | weather<br>USE<br>weather   | environmental control heat islands snowstorms  radar meteorological radar reconnaissance aircraft   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking   |   | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions   | weather<br>USE<br>weather   | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft  |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion  | weather                                 | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  | weather<br>USE<br><b>weather</b><br>GS  | environmental control heat islands snowstorms  radar meteorological radar reconnaissance aircraft   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction   | weather                                 | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts  | weather<br>USE<br><b>weather</b><br>GS  | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal)   |   | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  | weather<br>USE<br><b>weather</b><br>GS  | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness  | USE                                     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  | weather<br>USE<br><b>weather</b><br>GS  | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft dircraft Global Atmospheric Research Program   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal  | USE<br>weather                          | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions  | weather<br>USE<br><b>weather</b><br>GS  | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments  |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring  | USE<br>weather                          | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  | weather<br>USE<br><b>weather</b><br>GS  | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft dircraft Global Atmospheric Research Program   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction   | USE<br>weather<br>USE                   | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  | weather<br>USE<br>weather<br>GS<br>RT ∞   | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft   |
|                                  | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling  | USE<br>weather<br>USE<br>weather        | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  control   | weather<br>USE<br>weather<br>GS<br>RT ∞   | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft stations  |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing  | USE<br>weather<br>USE<br>weather        | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather                                    | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft stations meteorological stations  |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces   | USE<br>weather<br>USE<br>weather<br>USE | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification   | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather                                    | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations  |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification data recorders  | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather                                    | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations   |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  control weather modification  data recorders data recorders   | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft stations meteorological stations stations . weather stations . automatic weather stations   |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification data recorders data recorders . weather data recorders  | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft stations  meteorological stations stations . weather stations . automatic weather stations ground stations  |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  control weather modification  data recorders data recorders   | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations . automatic weather stations ground stations instrument packages  |
| RT                               | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification data recorders data recorders . weather data recorders  | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft stations  meteorological stations stations . weather stations . automatic weather stations ground stations  |
| RT ∞                             | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification  data recorders data recorders measuring instruments  | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations . automatic weather stations ground stations instrument packages  |
| RT ∞                             | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance   | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts  conditions weather  control weather modification  data recorders data recorders tweather data recorders measuring instruments meteorological instruments   | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft : weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations . automatic weather stations ground stations instrument packages integrated global ocean station systems  |
| RT  wear inl                     | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance  nibitors inhibitors . wear inhibitors  | weather USE weather USE weather USE     | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  control weather modification  data recorders data recorders . weather data recorders measuring instruments . meteorological instruments . weather data recorders  | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft irconnaissance aircraft reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations . automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments   |
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| RT  wear inl                     | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance  nibitors inhibitors . wear inhibitors  | USE weather USE weather USE weather GS  | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts  conditions weather  control weather modification  data recorders data recorders . weather data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations   | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations . automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments meteorological satellites meteorological services   |
| wear inl<br>GS<br>RT             | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance  nibitors inhibitors retardants wear resistance   | USE weather USE weather USE weather GS  | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts  conditions weather  control weather modification  data recorders data recorders - weather data recorders measuring instruments - weather data recorders recording instruments - weather data recorders automatic weather stations data   | weather<br>USE<br>weather<br>GS<br>RT ∞<br>weather<br>UF<br>GS                        | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments meteorological instruments meteorological satellites  |
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| wear inl<br>GS<br>RT             | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance nibitors . wear inhibitors retardants wear resistance mechanical properties . wear resistance   | weather USE weather USE weather GS      | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts  conditions weather  control weather modification  data recorders data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations data telemetry  forecasting  | weather USE  weather GS  RT   weather UF GS  RT                                       | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations . automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments meteorological satellites meteorological services ocean data acquisitions systems ing The process of disintegration and de-   |
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| wear inl<br>GS<br>RT             | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance hibitors inhibitors retardants wear resistance sistance mechanical properties . wear resistance abrasion  | weather USE weather USE weather GS      | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology)  charts meteorological charts  conditions weather  control weather modification  data recorders data recorders data recorders . weather data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations data telemetry  forecasting meteorology . weather forecasting                               | weather USE  weather GS RT   weather UF GS RT   | environmental control heat islands snowstorms  radar  meteorological radar  reconnaissance aircraft  reconnaissance aircraft  reconnaissance aircraft  reconnaissance aircraft  . weather reconnaissance aircraft  aircraft  Global Atmospheric Research  Program  meteorological instruments  observation aircraft  stations  meteorological stations  stations  . weather stations  . automatic weather stations  ground stations  instrument packages  integrated global ocean station  systems  meteorological instruments  meteorological satellites  meteorological services  ocean data acquisitions systems  ing  The process of disintegration and de- tion as a consequence of exposure to  osphere, to chemical action, and to the |
| wear inl<br>GS<br>RT<br>wear res | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance hibitors inhibitors . wear inhibitors retardants wear resistance sistance mechanical properties . wear resistance abrasion boundary lubrication   | weather USE weather USE weather GS      | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification  data recorders data recorders data recorders . weather data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations data telemetry  forecasting meteorology . weather forecasting . long range weather forecasting | weather USE  weather GS  RT   weather UF GS  RT  weather DEF composite atmataction of | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments meteorological satellites meteorological services ocean data acquisitions systems  ing The process of disintegration and de- tions as a consequence of exposure to sphere, to chemical action, and to the frost water and heat.                             |
| wear inl<br>GS<br>RT<br>wear res | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance hibitors inhibitors retardants wear resistance sistance mechanical properties . wear resistance abrasion  | weather USE weather USE weather GS      | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts  conditions weather  control weather modification  data recorders data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations data telemetry  forecasting meteorology . weather forecasting . long range weather forecasting . nowcasting                          | weather USE  weather GS  RT   weather UF GS  RT  weather DEF composite atmataction of | environmental control heat islands snowstorms  radar  meteorological radar  reconnaissance aircraft  reconnaissance aircraft  reconnaissance aircraft  reconnaissance aircraft  . weather reconnaissance aircraft  aircraft  Global Atmospheric Research  Program  meteorological instruments  observation aircraft  stations  meteorological stations  stations  . weather stations  . automatic weather stations  ground stations  instrument packages  integrated global ocean station  systems  meteorological instruments  meteorological satellites  meteorological services  ocean data acquisitions systems  ing  The process of disintegration and de- tion as a consequence of exposure to  osphere, to chemical action, and to the |
| wear inl<br>GS<br>RT<br>wear res | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance hibitors inhibitors . wear inhibitors retardants wear resistance sistance mechanical properties . wear resistance abrasion boundary lubrication   | weather USE weather USE weather GS      | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts conditions weather control weather modification  data recorders data recorders data recorders . weather data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations data telemetry  forecasting meteorology . weather forecasting . long range weather forecasting | weather USE  weather GS  RT   weather UF GS  RT  weather DEF composite atmataction of | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments meteorological satellites meteorological services ocean data acquisitions systems  ing The process of disintegration and de- tions as a consequence of exposure to sphere, to chemical action, and to the frost water and heat.                             |
| wear inl<br>GS<br>RT<br>wear res | abrasion chipping corrosion damage depreciation deterioration durability erosion failure flaking fretting corrosion friction grinding (material removal) hardness removal scoring sliding friction spalling surface finishing surfaces system failures tribology wear resistance hibitors inhibitors . wear inhibitors retardants wear resistance sistance mechanical properties . wear resistance abrasion boundary lubrication coefficient of friction   | weather USE weather USE weather GS      | METEOSAT satellite navigation aids precipitation (meteorology) runway conditions seasons solar compasses solar terrestrial interactions space weather wind (meteorology) charts meteorological charts  conditions weather  control weather modification  data recorders data recorders measuring instruments . meteorological instruments . weather data recorders recording instruments . weather data recorders automatic weather stations data telemetry  forecasting meteorology . weather forecasting . long range weather forecasting . nowcasting                          | weather USE  weather GS  RT   weather UF GS  RT  weather DEF composite atmataction of | environmental control heat islands snowstorms  radar meteorological radar  reconnaissance aircraft reconnaissance aircraft reconnaissance aircraft . weather reconnaissance aircraft aircraft Global Atmospheric Research Program meteorological instruments observation aircraft  stations meteorological stations stations . weather stations automatic weather stations ground stations instrument packages integrated global ocean station systems meteorological instruments meteorological sarellites meteorological services ocean data acquisitions systems  ing The process of disintegration and de- tion as a consequence of exposure to sphere, to chemical action, and to the frost water and heat. exposure                     |

# weatherproofing

| RT        | corrosion  |          | netting (materials/structures)                             |         | . probability density functions                              |
|-----------|--|----------|--|---------|--|
|           | corrosion tests  |          | paper (material)   |         | Weibull density functions                                    |
|           | curing   |          | papers   | RT      |  |
|           | damage   | c        | · rovings  |         | fatigue tests  |
|           | degradation  | c        | ∘ sheets   |         | sampling   |
|           | deterioration  |          | webbing  |         |  |
|           | Earth atmosphere   | c        | ∘ webs   |         | strass functions   |
|           | erosion  |          | webs (supports)  | GS      |  |
|           | mechanical properties  |          |  |         | . real variables   |
|           | rusting  |          | supports)  |         | Weierstrass functions  |
|           | soil erosion   | GS       | webs (supports)  | RT      | •  |
|           |  |          | . girder webs  |         | Jacobi integral  |
|           | rproofing  | RT       | diaphragms (mechanics)                                     |         |  |
| RT        | coatings   |          | elastic sheets   | ∞ weigh |  |
|           | cold weather   |          | membrane structures  | SN      | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
|           | corrosion prevention   |          | membranes  |         | LISTED BELOW)  |
|           | moisture resistance  |          | ribs (supports)  | DEF     |  |
|           | packaging  |          | skin (structural member)                                   | RT      | atomic weights   |
|           | preserving   |          | stiffening   |         | biomass  |
|           | waterproofing  | c        | ∘ webs   |         | coefficients   |
|           |  |          | webs (sheets)  |         | payloads   |
| weaving   |  |          |  |         | weight (mass)  |
| RT        | fabrics  | website  |  |         |  |
|           | sewing   |          | ed March 2001)   |         | t (mass)   |
|           | woven composites   |          | Locations on the World Wide Web                            | UF      | 8  |
| wob oo    | rvices   |          | g a collection of linked resources, usu-                   | GS      |  |
| web se    |  |          | uding a homepage, and prepared and                         |         | . atomic weights   |
| •         | ed May 2007)   |          | ned as a collection of information by a                    |         | . biomass  |
|           | A software system designed to support<br>rable machine to machine interactions |          | group, or organization.                                    |         | . body weight  |
| over a r  |  | UF<br>GS | web sites  |         | . organ weight   |
| GS        |  | GS       | resources  |         | . structural weight  |
| GS        | computer programs . applications programs (computers)                          |          | . Internet resources websites                              | RT      |  |
|           | web services   | RT       | electronic bulletin boards                                 |         | ∞ force  |
|           | services   | IXI      | electronic commerce  |         | gravitation  |
|           | . web services   |          |  |         | loads (forces)   |
| RT        | internets  |          | information dissemination information resources management |         | low molecular weights  |
| 17.1      | on-line systems  |          | information systems  |         | mascons  |
|           | service oriented architecture  |          | internets  |         | mass   |
|           | World Wide Web   |          | on-line systems  |         | molecular weight   |
|           | World Wide Web   |          | World Wide Web   |         | payloads   |
| web site  | 2.5  |          | World Wide Web   |         | pressure   |
|           | ed March 2001)   | wedge    | flow   |         | volume   |
|           | websites   | GS       | fluid flow   |         | ∞ weight   |
|           |  |          | . wedge flow   | weigh   | t analysis   |
| webbin    | q  | RT       | Blasius flow   |         | ∞ analyzing  |
| RT        | fabrics  | 111      | conical flow   | IXI     | NEW MOONS project  |
|           | mesh   |          | Falkner-Skan equation                                      |         | preflight analysis   |
| ۰         | ⇒ webs   |          | flow geometry  |         | structural weight  |
|           | webs (sheets)  |          | laminar flow   |         | systems analysis   |
|           |  |          | shock waves  |         | dydidina dhaiyold  |
| Weber     | test   |          | supersonic flow  | weiahi  | t factors  |
| GS        | physiological tests  |          | three dimensional flow                                     | USE     |  |
|           | . Weber test   |          | two dimensional flow                                       |         |  |
| RT        | auditory perception  |          | viscous flow   | weigh   | t indicators   |
|           | binaural hearing   |          |  |         | wind tunnel balances   |
|           |  | wedges   | <b>S</b>   | GS      | measuring instruments  |
| Weber-    | Fechner law  | RT       | aerodynamic configurations                                 |         | . indicating instruments                                     |
| DEF       | An approximate psychological law re-   |          | airfoil profiles   |         | weight indicators  |
| lating th | e degree of response or sensation of a   |          | airfoils   |         | microbalances  |
|           | organ and the intensity of the stimulus.                                       |          |  |         | strain gage balances   |
|           | asserts that equal increments of sensa-  | Weibel   | instability  |         | thermobalances   |
|           | associated with equal increments of the  | DEF      |  | RT      | balance  |
|           | n of the stimulus, or that the just notice-                                    |          | erized by the unstable growth of trans-                    |         | mechanical measurement                                       |
|           | erence in any sensation results from a   |          | lectromagnetic waves and large mag-                        |         | pressure gages   |
| 0         | in the stimulus which bears a constant   |          | ld fluctuation brought about by an aniso-                  |         | pressure measurement   |
|           | the value of the stimulus.   |          | stribution of electronic velocities.                       |         | ∞ scale  |
| GS        | laws   | GS       | dynamic characteristics                                    |         | strain gages   |
|           | . Weber-Fechner law  |          | . dynamic stability  |         | tensometers  |
|           |  |          | motion stability   |         |  |
| webs      |  |          | flow stability   |         | t measurement  |
| SN        | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS                   |          | magnetohydrodynamic stability                              | UF      | 0 0  |
|           | LISTED BELOW)  |          | Weibel instability   | RT      | ,  |
| RT        | membranes  |          | . flow characteristics                                     |         | hydrometers  |
|           | mesh   |          | flow stability   |         | ∞ measurement  |
|           | webbing  |          | magnetohydrodynamic stability                              |         | t raduation  |
|           | webs (sheets)  |          | Weibel instability   |         | t reduction  |
|           | webs (supports)  |          | stability  | RT      | 3  |
|           |  |          | . dynamic stability motion stability                       |         | materials selection spacecraft design                        |
|           | nembranes)   |          | flow stability   |         | structural design  |
| USE       | membranes  |          | magnetohydrodynamic stability                              |         | structural weight  |
|           | 1 (.)  |          | Weibel instability   |         | structurar weight<br>systems analysis                        |
| webs (s   | •  | RT       | plasma interactions  |         | Systems analysis   |
| SN        | (EXCLUDES POLYMERIC FILMS AND STRUCTURAL REINFORCEMENTS)                       | IXI      | pidoma interactions  | weigh   | ting functions   |
| RT        | STRUCTURAL REINFORCEMENTS) diaphragms (mechanics)                              | Weihull  | density functions  | GS      |  |
|           | elastic sheets   | GS       | functions (mathematics)                                    | 30      | . real variables   |
|           | fabrics  |          | . probability density functions                            |         | measure and integration                                      |
| ۰         | o films  |          | . Weibull density functions                                |         | weighting functions  |
| _         | membranes  |          | statistical analysis                                       |         | functions (mathematics)                                      |
|           |  |          |  |         |  |

### Westland ground effect machines

weighting functions . . spot welds V/STOL aircraft statistical mechanics beads bonded joints West comet A comet discovered in 1976. . weightless fluids butt joints DEF RT ∞ fluids friction stir welding GS celestial bodies viscous fluids lap joints . comets riveted joints . West comet weightlessness weld strength RT solar system DĒF A condition in which no acceleration, weld tests whether of gravity or other force, can be de-West Ford project welding tected by an observer within the system in GS programs . projects question. Used for zero gravity. welded structures UF zero gravity ... West Ford project welded structures GS RT aerospace medicine . steel structures artificial gravity West Germany rigid structures Federal Republic of Germany astronaut performance ∞ structures ∞ astronautics GS nations bioprocessing **West Germany** welding blackout prevention Alps Mountains (Europe) DEF Joining two or more pieces of metal by body weight Azur satellite applying heat, pressure, or both, with or without bone demineralization Central Europe filler material to produce a localized union East Germany clinorotation through fusion or recrystallization across the containerless melts Europe interface. German Infrared Laboratory disorientation GS welding German space program drop towers . fusion welding electrolyte metabolism Germany . . electric welding environments . . . arc welding extravehicular activity **West Indies** . . . . gas tungsten arc welding GS landforms flight stress (biology) . . . . plasma arc welding . islands free fall electroslag welding . . West Indies gravitation . . . flash welding gravitational effects Antigua and Barbuda . . electron beam welding . . . Bahamas intravehicular activity . . gas welding life support systems . . . Barbados . . . brazing Cuba low weight . . . . low temperature brazing lower body negative pressure ... Dominica . laser welding . . . Grenada microgravity . pressure welding Guadeloupe neutral buoyancy simulation . . cold welding . . . Haiti parabolic flight . . diffusion welding Jamaica space adaptation syndrome . . explosive welding Lesser Antilles space flight stress . . friction welding Martinique space manufacturing . . . friction stir welding Puerto Rico Space Processing Applications . ultrasonic welding Trinidad and Tobago Rocket backups Virgin Islands spaceborne experiments beads Atlantic Ocean spacecraft environments bonding Caribbean region suborbital flight construction fillets West Virginia weightlessness simulation flame plating nations GS simulation GS . United States fluxes . environment simulation fusibility . West Virginia . . space environment simulation heat affected zone RT Allegheny Plateau (US) ... weightlessness simulation ∞ joining Ohio River (US) . . . neutral buoyancy simulation metal bonding Potomac River Valley (MD-VA-WV) RT clinorotation metal-metal bonding clinostats sealing Westar satellites
GS artificial satellites flight simulation soldering head down tilt . communication satellites torches head up tilt welded joints . Westar satellites hindlimb suspension RT point to point communication Langley complex coordinator telecommunication parabolic flight welding machines RT ∞ electric equipment telegraph systems submerging tilt-table test electric welding ∞ machinery Western hemisphere Weinberg-Salam Gauge Model torches Earth (planet) electroweak model Eastern Hemisphere geography wells weld strength aquifers GS mechanical properties Westland aircraft drilling weld strength GS Westland aircraft ground water P-531 helicopter RT ∞ strength limnology . Westland Whirlwind helicopter weldability oases RT ∞ aircraft welded joints springs (water) helicopters square wells weld tests rotary wing aircraft stratigraphy RT fatigue tests V/STOL aircraft ∞ tests Wentzel-Kramer-Brillouin method welded joints Westland ground effect machines WKB approximation SR-N2 ground effect machine de Broglie wavelengths SR-N3 ground effect machine weldability ∞ methodology perturbation theory SR-N5 ground effect machine brittleness Westland SR-N2 ground effect ductility Plancks constant heat affected zone machine Schroedinger equation weld strength Westland SR-N2 hovercraft Westland SR-N3 ground effect machine welded joints Weser aircraft GS joints (junctions) Westland SR-N3 hovercraft RT ∞ aircraft Westland SR-N5 ground effect . metal joints helicopters

rotary wing aircraft

.. welded joints

machine

# Westland Whirlwind helicopter

| GS ground effect machines . Westland ground effect machines                                   | wildlife  | human factors engineering locomotion   |
|---|---|--|
| RT ∞ aircraft   | wetness USE moisture content                                  | ramps (structures)   |
| Westland MK-10 helicopter   |   | wheels   |
| USE Westland Whirlwind helicopter   | wettability RT adhesion                                       | DEF Rims fitted with disks for affixment to axles.                                       |
| Westland P-531 helicopter   | adhesion tests  | GS wheels  |
| USE P-531 helicopter  | formations  | . counter-rotating wheels  |
|   | hydrophobicity<br>hygroscopicity                              | . flywheels<br>. reaction wheels   |
| Westland SR-N2 ground effect machine  | permeability  | . toroidal wheels  |
| USE Westland ground effect machines   | porosity  | . turbine wheels   |
| Westland SR-N2 hovercraft   | surface properties  | . vehicle wheels nose wheels   |
| USE Westland ground effect machines   | wetting   | . water wheels   |
| <b>g</b>  | wetting   | RT bearings  |
| Westland SR-N3 ground effect machine  | RT cooling  | brakes (for arresting motion)  |
| USE Westland ground effect machines   | dipping<br>foaming  | gears<br>hubs  |
| W # 100 No.1  | hydrophobicity  | landing gear   |
| Westland SR-N3 hovercraft USE Westland ground effect machines                                 | interfacial tension   | pulleys  |
| Vestiana ground eneet machines  | ∞ saturation  | rollers  |
| Westland SR-N5 ground effect machine  | ∞ soaking<br>soaps  | rotors<br>shafts (machine elements)  |
| USE Westland ground effect machines   | spraying  | spokes   |
|   | sprinkling  | tires  |
| Westland Whirlwind helicopter UF Westland MK-10 helicopter                                    | submerging<br>wet spinning                                    | whip antennas  |
| UF Westland MK-10 helicopter Whirlwind MK-10 helicopter                                       | wet spirining wettability                                     | DEF Thin flexible monopole antennas.   |
| GS V/STOL aircraft  | ,   | GS antennas  |
| . rotary wing aircraft  | whales  | . omnidirectional antennas   |
| helicopters<br>military helicopters   | GS animals<br>. vertebrates                                   | monopole antennas<br>whip antennas   |
| Westland Whirlwind helicopter   | mammals   | RT radio antennas  |
| Westland aircraft   | marine mammals  | and the lands the trade of   |
| . Westland Whirlwind helicopter   | whales  | <b>whiplash injuries</b><br>GS injuries  |
| RT ∞ aircraft   | wharves   | . whiplash injuries  |
| wet cells   | UF piers  | RT back injuries   |
| GS electrochemical cells  | RT cargo ships  | crash injuries   |
| . electric batteries  | dams<br>Earth resources                                       | spinal cord injuries   |
| <b>wet cells</b><br>RT ∞ electric cells   | freighters  | whirl  |
| electrolytes  | harbors   | USE rotation   |
| fuel cells  | marine technology<br>materials handling                       | whirl instability  |
| nonaqueous electrolytes   | ∞ ports   | USE rotary stability   |
| primary batteries   | rivers  | whirl towers   |
| wet spinning  | ship terminals  | RT helicopter design   |
| DEF The production of synthetic and man-  | tanker ships<br>terminal facilities                           | hovering   |
| made filaments by extruding the chemical solu-  | water   | hovering stability parachutes  |
| tion through spinnerets into a chemical bath where they coagulate.                            | wheat   | rotary wings   |
| RT extruding  | GS farm crops   | rotor aerodynamics   |
| fibers  | . grains (food)   | spin tests   |
| ∞ filaments<br>∞ processing   | wheat   | whirling   |
| synthetic fibers  | RT crop growth crop vigor                                     | USE rotation   |
| textiles  | ∞ crops   | whirling tests   |
| wetting   | rice  | USE spin tests   |
| wetlands  | Wheatstone bridges  | Mile interior of AMZ 40 to discourte in  |
| DEF Lands which have the water table at,  | GS circuits   | Whirlwind MK-10 helicopter USE Westland Whirlwind helicopter                             |
| near, or above the land surface, or which are   | . electric bridges  |  |
| saturated for long enough periods to promote hydrophylic vegetation and various kinds of bio- | wire bridge circuits Wheatstone bridges                       | whisker composites UF metal whisker reinforcement  |
| logical activity which are adapted to the wet   | RT measuring instruments                                      | UF metal whisker reinforcement GS composite materials                                    |
| environment.  | ohmmeters   | . whisker composites   |
| GS land   | wheel backer  | RT aramid fiber composites   |
| . <b>wetlands</b><br>marshlands   | wheel brakes GS brakes (for arresting motion)                 | eutectic alloys<br>metal matrix composites   |
| RT coastal currents   | . wheel brakes  | reinforcing fibers   |
| coastal ecology   | RT aircraft brakes  | · ·  |
| coastal plains<br>coastal water   | aircraft safety<br>antiskid devices                           | whiskers (crystals) GS crystals  |
| environment effects   | controllability   | . whiskers (crystals)  |
| fisheries   | friction  | RT dendritic crystals  |
| marine biology  | hydraulic equipment   | fibers   |
| marine environments<br>marine resources   | landing gear<br>tires   | ∞ filaments  |
| nearshore water   | vehicle wheels  | whispering gallery modes   |
| oceanography  | h.a.dah.aba   | (added September 1988)   |
| oil pollution<br>sea grasses  | wheelchairs DEF Four wheeled ambulatory devices for           | DEF Electromagnetic (or elastic) waves that differ in frequency by more than an order of |
| shorelines  | persons with minimal or no use of lower extremi-              | magnitude.   |
| tides   | ties which can be either manually or electrically             | GS modes   |
| water resources   | powered. They are often individually fitted.  RT disabilities | . propagation modes  |
| waterfowl   | IVI UISADIIILIES  | whispering gallery modes   |

acoustic frequencies wave front reconstruction ∞ patterns acoustic propagation electromagnetic radiation width electromagnetic wave transmission DEF A sound or electromagnetic wave GS dimensions width wave propagation whose spectrum is continuous and uniform as a bandwidth function of frequency. Used for spectral noise. wavelengths spectral noise ∞ span electromagnetic interference whistler recorders Wiener filtering RT electric filters . radio frequency interference GS communication equipment . . electromagnetic noise . radio receivers ... white noise optimization . whistler recorders statistical analysis . thermal noise radio equipment electromagnetic noise measurement radio receivers jamming Wiener Hopf equations . whistler recorders ∞ noise GS analysis (mathematics) receivers noise (sound) . functional analysis . radio receivers noise spectra . . integral equations . . whistler recorders random noise .. Wiener Hopf equations recording instruments signal to noise ratios  $RT \, \infty \, equations$ whistler recorders spectral bands sonograms WIG vehicles white smokers (oceanography) (added December 1999) whistlers (added April 2005) USE wing-in-ground effect vehicles DEF Radiofrequency electromagnetic signals generated by some lightning discharges. USE submarine hydrothermal vents wiggler magnets atmospheric radiation DEF Components used in the production of whiteout . ionospheric noise coherent x rays by the pumping of a gas with synchrotron radiation in combination with low RT visibility whistlers visual flight electromagnetic interference energy photon beams. . radio frequency interference . . electromagnetic noise Whitham rule GS magnets GS rules wiggler magnets . . . atmospherics Whitham rule reflectors whistlers RT shock waves wiggler magnets ... ionospheric noise wave propagation diffraction radiation . . whistlers free electron lasers electromagnetic radiation Whittaker functions laser pumping . radio waves analysis (mathematics) tunable lasers . . sky waves real variables . whistlers . Whittaker functions Wightman theory dawn chorus functions (mathematics) field theory (physics) electromagnetic fields Whittaker functions quantum theory lightning RT differential equations relativistic theory microwaves radio signals wicks Wigner coefficient sonograms RT fuses (ordnance) coefficients GS Wigner coefficient RT angular momentum white blood cells wide angle lenses USE leukocytes ∞ mechanics (physics) lenses GS wide angle lenses optical equipment . wide angle lenses Wild 2 comet white dwarf stars (added March 1999) GS celestial bodies all sky photography DEF Periodic comet, discovered January . stars cameras 1978, relatively new to the inner Solar System . . early stars panoramic cameras due to a shift in its orbit caused by the gravita-. . . hot stars tional influence of Jupiter. ... white dwarf stars wide area networks GS celestial bodies cataclysmic variables (added August 1995) . comets degenerate matter WAÑ Wild 2 comet dwarf novae GS networks Stardust Mission dwarf stars . communication networks red dwarf stars . wide area networks wilderness subdwarf stars . computer networks RT deserts supernova remnants . wide area networks forests Wolf-Rayet stars distributed processing land management local area networks plains white holes (astronomy)
DEF Time-reversed black holes, expanding packets (communication) remote regions telecommunication rural areas sources with growing intensity and photon energy wideband wildlife ĞS celestial bodies USE broadband GS animals . stars wildlife . white holes (astronomy) wideband communication RT birds black holes (astronomy) telecommunication endangered species cosmology wideband communication environment effects electromagnetic radiation RT broadband amplifiers fishes event horizon code division multiple access habitats gravitational collapse multiple access wetlands gravitational lenses point to point communication light emission time division multiple access wildlife radiolocation naked singularities GS tracking (position) tropospheric scattering supernova remnants . radio tracking Widmanstatten structure . wildlife radiolocation white light holography crystal structure animals Widmanstatten structure bioinstrumentation GS imagery . photography microstructure biotelemetry . . holography Widmanstatten structure radio transmitters white light holography iron meteorites remote sensors RT

metallography

meteoritic microstructures

data storage

holographic optical elements

satellite instruments

satellite observation

triangulation zonal flow (meteorology) supersonic test apparatus

Williston Basin (North America)

landforms

. structural basins

. Williston Basin (North America)

Canada Montana North America North Dakota

WIMPs (astronomy)

(added November 1999)

weakly interacting massive particles

winches

RT cranes elevators (lifts) ∞ lifts pulleys

wind (meteorology)

A natural motion of the air, especially a noticeable current of air moving in the atmosphere parallel to the Earth's surface.

GS wind (meteorology)

. circumpolar westerlies

. ground wind

. gusts

. monsoons . sea breeze

. squalls

. winds aloft

. . geostrophic wind

. jet streams (meteorology)

RT aeolian tones aerology

air currents

air pollution

Alpine meteorology

anemometers

atmospheric circulation

barotropic flow

∞ barriers

blowing climatology

cyclones

gravity waves

hot-film anemometers jimsphere balloons

marine meteorology meridional flow

mesoscale phenomena

meteorology mixing height

pressure ice

ripples

storm damage

storms

storms (meteorology)

thunderstorms

tidal waves

tornadoes

upwelling water

vertical air currents

weather forecasting

windmills (windpowered machines)

windpower utilization

windpowered generators

zonal flow (meteorology)

wind circulation

USE atmospheric circulation

wind direction

DEF The direction from which the wind is blowing, measured in points of the compass or

in azimuth degree. atmospheric circulation

ground wind

meridional flow meteorological parameters

sea breeze smoke trails

upstream

upwelling water

windmills (windpowered machines)

windpowered generators

wind effects

RT atmospheric effects

dunes

dust storms

∞ effects

erosion

ground wind pressure effects

sea breeze

sea roughness

sea states

soil erosion turbulence

water circulation

wind energy

windpower utilization USE

wind erosion

erosion GS

wind erosion

atmospheric effects ground wind

sea breeze

water erosion

wind measurement

GS mechanical measurement

. wind measurement

. wind velocity measurement

aerodynamics RT

anemometers

hot-film anemometers

∞ measurement

meteorological parameters

meteorology QuikSCAT satellite

rawinsondes sea breeze

smoke trails

wind pressure

RT

pressure

wind pressure dynamic loads

ground wind

gust loads

loads (forces) windpower utilization

windpowered generators

wind profiles RT atmospheric circulation

ground wind ∞ profiles

radial distribution

smoke trails

vertical distribution

zonal flow (meteorology)

Wind River Range (WY)

GS landforms

. mountains

Wind River Range (WY)

Wyoming

wind shear

GS

DFF A sharp change in wind speed and direction over a short distance

Dungeys wind shear mechanism

aviation meteorology

barotropic flow

clear air turbulence

downbursts

geostrophic wind ground wind

microbursts (meteorology)

wind tunnel apparatus wind tunnel balances wind tunnel apparatus

wind tunnel drives

wind tunnel nozzles

RT ∞ equipment

wind tunnel balances

USE weight indicators

wind tunnel apparatus

#### wind tunnel calibration

GS calibrating

wind tunnel calibration

measuring instruments pressure measurement

scaling laws

temperature measurement

#### wind tunnel drives

GS wind tunnel apparatus

wind tunnel drives

RT ∞ drives

∞ fans

mechanical drives

plasma generators

pressure chambers vacuum chambers

#### wind tunnel models

GS models

. wind tunnel models

. powered models aerodynamic configurations

aircraft models

dynamic models flow visualization

∞ missile simulators

pylon mounting scale models

semispan models

shadowgraph photography ∞ test equipment

wind tunnel nozzles

GS wind tunnel apparatus

wind tunnel nozzles

conical nozzles convergent-divergent nozzles

divergent nozzles

hypersonic nozzles ∞ nozzles

supersonic nozzles transonic nozzles

# wind tunnel stability tests

stability tests

. wind tunnel stability tests aerodynamic stability

aircraft stability

missile tests spacecraft stability

∞ tests

wind tunnel tests

RT aerodynamic characteristics air data systems

density measurement

flow distribution pressure measurement

∞ tests trisonic wind tunnels water tunnel tests

wind tunnel walls

walls GS

wind tunnel walls pressure vessels

reinforced shells

wind tunnels Tubelike structures or passages, sometimes continuous, together with their adjuncts, in which high speed movements of air or other gases are produced, as by fans, and within which objects such as engines or aircraft, airfoils, rockets (or models of these objects), are placed to investigate the airflow about them and

the aerodynamic forces acting upon them. test facilities

. wind tunnels

. . blowdown wind tunnels . . combustion wind tunnels

. . cryogenic wind tunnels

. . hypersonic wind tunnels

. . . cascade wind tunnels . wind measurement windshields . . . hotshot wind tunnels . wind velocity measurement windows (computer programs) ... plasma jet wind tunnels anemometers (added July 1993) . shock tunnels hot-film anemometers . . hypervelocity wind tunnels GS interfaces . graphical user interface . cascade wind tunnels Wind/GGS spacecraft . windows (computer programs) ... hotshot wind tunnels (added January 2001) . . . plasma jet wind tunnels One of two NASA spacecraft in the computer graphics ... shock tunnels Global Geospace Science (GGS) initiative and operating systems (computers) . . low density wind tunnels part of the International Solar Terrestrial Physics real time operation . . low speed wind tunnels (ISTP) program. The main purpose of the Wind spacecraft is to measure the incoming solar windows (intervals) . . . subsonic wind tunnels (EXCLUDES INTERVALS IN SPACE CONTINUUM) windows (intervals) . . rectangular wind tunnels wind, magnetic fields, and particles, although SN early in its mission Wind observed the Earth foreshock region. The spacecraft was launched . . slotted wind tunnels . . supersonic wind tunnels . laser windows . . transonic wind tunnels in November 1994. launch windows . trisonic wind tunnels GS artificial satellites bandwidth aerodynamics . geophysical satellites
. Wind/GGS spacecraft burning time exhaust flow simulation countdown flight simulators scientific satellites
. Wind/GGS spacecraft energy bands gas guns flight time gas streams Earth magnetosphere testing time hypersonic flow gamma rays time measurement spikes (aerodynamic configurations) interplanetary magnetic fields ∞ windows supersonic flow Polar/GGS spacecraft test chambers solar corpuscular radiation windpower utilization wind energy renewable energy ∞ test equipment solar terrestrial interactions transonic flow solar wind GS ∞ tunnels space plasmas . windpower utilization utilization wind turbines winding windpower utilization Machines which convert wind energy GS winding air currents into electricity.

GS turbomachinery filament winding air masses helical windings atmospheric circulation . turbines wire winding clean energy . . wind turbines cold working Earth resources . . tip vanes leveling metal working ground wind RT turbogenerators sea breeze wind velocity spindles vanes windmills (windpowered machines) spiral wrapping wind (meteorology) windpower utilization stretching wind pressure windpowered generators twisting wind turbines wind velocity wind vanes windmilling windmills (windpowered machines) GS display devices USE autorotation windpowered generators . flow direction indicators windpowered pumps . wind vanes windmills (windpowered machines) measuring instruments windpowered generators RT electric generators . indicating instruments RT electric generators gears . . flow direction indicators ∞ generators ground wind . . wind vanes ∞ machinery ground wind . meteorological instruments mechanical drives vanes . wind vanes wind (meteorology) ∞ power transmission vanes ∞ pumping wind direction wind vanes wind (meteorology) wind pressure anemometers wind turbines wind direction hot-film anemometers wind velocity wind turbines windmills (windpowered machines) wind velocity wind variations windpower utilization windpower utilization GS variations windpowered generators wind variations windpowered pumps windpowered pumps annual variations GS pumps atmospheric turbulence windpowered pumps window atmosphere sounding projectile diurnal variations ponds USE WASP sounding rocket seasons pumping reservoirs windows wind velocity vanes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW) SN GS rates (per time) water . wind velocity water resources . . solar wind velocity infrared windows windmills (windpowered machines) velocity ports (openings) windpower utilization . wind velocity waveguide windows . solar wind velocity windows (apertures) winds aloft airspeed windows (intervals) GS wind (meteorology) anemometers winds aloft flow measurement geostrophic wind windows (apertures) Fujita method (EXCLUDES INTERVALS IN TIME, FREQUENCY, ENERGY AND SO ON) apertures jet streams (meteorology) ground wind RT circumpolar westerlies hot-film anemometers sea breeze meteorological parameters ∞ barriers vertical air currents sea roughness curtains wind turbines doors windscreens windmills (windpowered machines) ducts USE windshields openings optical materials windpower utilization windpowered generators windshields ports (openings) UF windscreens aircraft compartments wind velocity measurement separators RT shielding GS mechanical measurement canopies

vents

∞ windows

. velocity measurement

. . wind velocity measurement

cockpits

environmental control

|                        | obiolding   | wing pacelle configurations   | ∞ roots   |
|------------------------|---|---|---|
|                        | shielding windows (apertures)   | . <b>wing nacelle configurations</b><br>RT ∞ aircraft   | wing slats  |
|                        | wildows (apertules)   | airframes   | USE leading edge slats  |
| wines                  |   | externally blown flaps  | ool louding ougo chair  |
| GS                     | liquids   | externally blown haps   | wing slots  |
|                        | . potable liquids   | wing coellations  | GS slots  |
|                        | beverages   | wing oscillations   | . wing slots  |
|                        | wines   | GS oscillations . airfoil oscillations  | RT boundary layer control   |
| RT                     | vineyards   | wing oscillations   | leading edge slats  |
|                        | ,   | wing rock   | tangential blowing  |
| wing ca                | ımber   | RT aerodynamic stability  | vortex generators   |
| ĞS                     | camber  | aeroelastic research wings  |   |
|                        | . wing camber   | flapping  | wing span   |
| RT                     | cambered wings  | flutter   | GS airfoil profiles   |
|                        | conical camber  | stable oscillations   | . wing profiles   |
|                        | mission adaptive wings  | undamped oscillations   | wing span   |
|                        |   | unsteady aerodynamics   | RT ∞ span   |
| wing fla               | nps   | vibration   | spanwise blowing  |
| UF                     | jet augmented wing flaps  | VISICATOR   | wings   |
| GS                     | airfoils  | uring menele  |   |
|                        | . flaps (control surfaces)  | wing panels   | wing tanks  |
|                        | wing flaps  | GS panels   | GS tanks (containers)   |
|                        | leading edge flaps  | . wing panels   | . fuel tanks  |
|                        | leading edge slats  | structural members . wing panels  | wing tanks  |
|                        | trailing edge flaps   | RT curved panels  | RT ∞ containers   |
|                        | vortex flaps  | •   | external store separation   |
|                        | brakes (for arresting motion)   | rectangular panels  | external stores   |
|                        | . aerodynamic brakes  | wings   | external tanks  |
|                        | wing flaps  |   | jettison systems  |
|                        | leading edge flaps  | wing planforms  | wing-fuselage stores  |
|                        | leading edge slats  | GS planforms  | wing tip vertices   |
|                        | trailing edge flaps   | wing planforms  | wing tip vortices GS vortices   |
|                        | vortex flaps  | channel wings   | GS vortices . wing tip vortices   |
|                        | . aircraft brakes   | infinite span wings   | RT blade-vortex interaction   |
|                        | wing flaps  | swept forward wings   | flow distortion   |
|                        | leading edge flaps  | trapezoidal wings   | horseshoe vortices  |
|                        | leading edge slats  | sweptback wings   |   |
|                        | trailing edge flaps   | arrow wings   | rotating fluids   |
|                        | vortex flaps  | delta wings   | wing tips   |
|                        | control surfaces  | trapezoidal wings   | GS tips   |
|                        | . flaps (control surfaces)  | variable sweep wings  | . wing tips   |
|                        | wing flaps  | RT HP-115 aircraft  | RT airfoil profiles   |
|                        | leading edge flaps  | low aspect ratio wings  | blade tips  |
|                        | leading edge slats  | monoplanes  | joined wings  |
|                        | trailing edge flaps   | oblique wings   | wings   |
|                        | vortex flaps  | rectangular planforms   | Willigo   |
|                        | drag devices  | slender wings   | wing-body and tail configurations   |
|                        | . aerodynamic brakes  | swept wings   | (added August 1998)   |
|                        | wing flaps  | swing wings   | USE body-wing and tail configurations   |
|                        | leading edge flaps  | thrust distribution   | 00= 00m,g a 00ga.a  |
|                        | leading edge slats  | unswept wings   | wing-body configurations  |
|                        | trailing edge flaps   |   | (added August 1998)   |
| DT                     | vortex flaps  | wing profiles   | USE body-wing configurations  |
| RT                     | externally blown flaps  | GS airfoil profiles   | , , ,   |
|                        | jet flaps   | wing profiles   | winged vehicles   |
|                        | split flaps   | wing span   | SN (USE OF A MORE SPECIFIC TERM IS  |
| wing fle               | ow method tests   | RT aerodynamic interference   | RECOMMENDEDCONSULT THE TERMS  |
| RT                     | flight tests  | GAW-1 airfoil   | LISTED BELOW)<br>RT ∞ aircraft  |
| 111                    | fluid flow  | GAW-2 airfoil   | B-1 aircraft  |
|                        | ground tests  | mission adaptive wings  | drone vehicles  |
| ~                      | methodology   | monoplanes  | Firebee 2 target drone aircraft   |
|                        | tests   | supercritical wings   | gliders   |
|                        | transonic wind tunnels  | swing wings   | hang gliders  |
|                        |   | wings   | hypersonic vehicles   |
| wing ici               | na  |   | jet aircraft  |
|                        | aircraft icing  | wing rock   | launch vehicles   |
|                        | g   | (added October 1997)  | leading edge flaps  |
| wing lo                | ading   | DEF A high angle-of-attack, nonlinea  | ar, dy- man powered aircraft  |
| ĞS                     |   | namic phenomenon of limited cycle motion  | n pre- missiles   |
|                        |   |   |   |
|                        | aerodynamic forces  | dominantly in roll.   |   |
|                        | aerodynamic forces . wing loading   | GS oscillations   | monoplanes  |
|                        | aerodynamic forces<br>. wing loading<br>loads (forces)  | GS oscillations . airfoil oscillations  | monoplanes recoverable launch vehicles  |
|                        | aerodynamic forces . wing loading   | GS oscillations . airfoil oscillations wing oscillations  | monoplanes<br>recoverable launch vehicles<br>recoverable spacecraft   |
| RT                     | aerodynamic forces . wing loading loads (forces) . dynamic loads  | GS oscillations . airfoil oscillations wing oscillations wing rock  | monoplanes<br>recoverable launch vehicles<br>recoverable spacecraft<br>reentry vehicles   |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads wing loading   | GS oscillations . airfoil oscillations . wing oscillations wing rock RT aerodynamic stability   | monoplanes<br>recoverable launch vehicles<br>recoverable spacecraft   |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading   | GS oscillations . airfoil oscillations wing oscillations wing rock RT aerodynamic stability aircraft stability  | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft  |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity  | GS oscillations . airfoil oscillations wing oscillations wing rock RT aerodynamic stability aircraft stability angle of attack  | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles  |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading   | GS oscillations . airfoil oscillations . wing oscillations wing rock RT aerodynamic stability aircraft stability angle of attack delta wings  | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft   |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads wing loading aerodynamic loads aeroelasticity edge loading force distribution  | GS oscillations . airfoil oscillations . wing oscillations wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation  | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings   |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads  | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges  | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft   |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads sweep effect   | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges roll   | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft ∞ vehicles  |
|                        | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads  | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges  | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft  ∞ vehicles vertical takeoff aircraft wings   |
| RT                     | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads sweep effect vortex flaps  | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges roll slender wings   | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft  ∞ vehicles vertical takeoff aircraft wings  wing-fuselage stores   |
| RT                     | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads sweep effect vortex flaps  | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges roll slender wings   | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft  ∞ vehicles vertical takeoff aircraft wings  wing-fuselage stores  UF fuselage-wing stores  |
| RT<br>wing na<br>DEF   | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads sweep effect vortex flaps accelle configurations Aerodynamic configurations involving              | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges roll slender wings  wing roots RT aerodynamic configurations                           | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft ∞ vehicles vertical takeoff aircraft wings  wing-fuselage stores UF fuselage-wing stores RT external store separation                 |
| RT wing na DEF various | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads sweep effect vortex flaps  Aerodynamic configurations involving arrangements of wings and nacelles | GS oscillations . airfoil oscillations . wing oscillations . wing rock  RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges roll slender wings  wing roots  RT aerodynamic configurations aircraft configurations | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft ∞ vehicles vertical takeoff aircraft wings  wing-fuselage stores UF fuselage-wing stores RT external store separation external stores |
| RT wing na DEF various | aerodynamic forces . wing loading loads (forces) . dynamic loads . wing loading aerodynamic loads aeroelasticity edge loading force distribution gust loads leading edge thrust static loads sweep effect vortex flaps accelle configurations Aerodynamic configurations involving              | GS oscillations . airfoil oscillations . wing oscillations . wing rock RT aerodynamic stability aircraft stability angle of attack delta wings lateral oscillation leading edges roll slender wings  wing roots RT aerodynamic configurations                           | monoplanes recoverable launch vehicles recoverable spacecraft reentry vehicles research aircraft rocket vehicles short takeoff aircraft supercritical wings ultralight aircraft ∞ vehicles vertical takeoff aircraft wings  wing-fuselage stores UF fuselage-wing stores RT external store separation                 |

|            | pods (external stores)   | aspect ratio                                     | closed circuit television  |
|------------|--|--|--|
|            | protuberances  | blunt trailing edges                             | communication satellites   |
| _          | •  | body-wing and tail configurations                | data links   |
| 0          | ∘ storage  |  |  |
|            | storage tanks  | body-wing configurations                         | data transmission  |
|            | tanks (containers)   | coatings   | digital spacecraft television                                      |
|            | weapons  | control surfaces                                 | facsimile communication  |
|            | wing tanks   | drooped airfoils                                 | Iridium network  |
|            | 9 ***  | dual wing configurations                         | optical communication  |
| wing-in    | -ground effect vehicles  | leading edge flaps                               | radio telemetry  |
|            | ed December 1999)  |  |  |
|            |  | missile components                               | signal transmission  |
|            | Vehicles designed to fly about half their  | porous boundary layer control                    | space communication  |
|            | hord above the surface, taking advan-  | rotors   | spacecraft communication   |
| tage of    | the reduced drag and increased lift  | spoilers   | telemetry  |
| caused     | by ground effect. These vehicles, also   | wing panels                                      | voice communication  |
| known      | as WIGs or WIGEs, normally operate   | wing profiles                                    |  |
|            | water surface.   |  | wiring   |
| UF         | ekranoplanes   | wing span  | wiring   |
| Oi         |  | wing tips  | SN (PROCESSAS DISTINGUISHED FROM                                   |
|            | WIG vehicles   | ∞ winged vehicles                                | MATERIAL) UF electric wiring                                       |
| GS         | ground effect machines   | winglets   | •  |
|            | . wing-in-ground effect vehicles   |  | wiring systems   |
| RT         | ground effect (aerodynamics)   | winter   | RT bundles   |
|            | surface effect ships   | GS seasons                                       | circuits   |
|            | canaco encor empe  | . winter   | electrical insulation  |
| winglet    | e  |  | flat conductors  |
|            |  | RT autumn  | splicing   |
|            | In aerospace engineering, small nearly   | cold weather                                     | 1 0  |
|            | winglike surfaces mounted rearward   | equinoxes  | transmission lines   |
|            | he wing tips to reduce drag coefficients   | pressure ice                                     | wire   |
| at lifting | conditions.  | solstices  | wire winding   |
| RT         | drag reduction   | spring (season)                                  |  |
|            | fins   | ,  | wiring systems   |
|            | protuberances  | summer   | USE wiring   |
|            |  |  | COL minig  |
|            | vortex alleviation   | wire   | Wissensin  |
|            | vortex avoidance   | DEF A rod or filament of drawn or rolled         | Wisconsin  |
|            | wings  | metal whose length is great in comparison with   | GS nations   |
|            |  | the major axis of its cross section.             | . United States  |
| wings      |  | GS wire  | Wisconsin  |
| ÜF         | cantilever wings   |  |  |
| GS         | airfoils   | . electric wire                                  | Wiswesser notations  |
| 00         | _  | . exploding wires                                |  |
|            | . wings  | . guy wires                                      | GS classifications   |
|            | aeroelastic research wings   | RT billets                                       | . indexes (documentation)  |
|            | cambered wings   | cables (ropes)                                   | Wiswesser notations  |
|            | caret wings  | ∞ coils  | coding   |
|            | channel wings  | cordage  | . Wiswesser notations  |
|            | cruciform wings  | fasteners  | RT ∞ chemical compounds  |
|            | fixed wings  | ∞ filaments                                      | ∞ chemistry  |
|            | flexible wings   |  | identifying  |
|            | parawings  | flat conductors                                  | molecular structure  |
|            |  | jumpers  |  |
|            | GAW-1 airfoil  | reinforcement (structures)                       | ∞ reference systems  |
|            | GAW-2 airfoil  | rods   |  |
|            | joined wings   | wiring   | WKB approximation  |
|            | low aspect ratio wings   | 9  | USE Wentzel-Kramer-Brillouin method                                |
|            | delta wings  | wire bridge circuits                             |  |
|            | trapezoidal wings  | GS circuits                                      | wolfram  |
|            | mission adaptive wings   |  | USE tungsten   |
|            |  | . electric bridges                               | OOL tuligatell   |
|            | oblique wings  | wire bridge circuits                             |  |
|            | rigid wings  | Wheatstone bridges                               | Wolf-Rayet stars   |
|            | rotary wings   | RT electric wire                                 | DEF Very luminous, very hot (as high as                            |
|            | circulation control rotors   | exploding wires                                  | 50,000K) stars whose spectra have broad emis-                      |
|            | lifting rotors   | explouing wires                                  | sion lines (mainly He I and He II, which are                       |
|            | bearingless rotors   | usino elette                                     | presumed to originate from material ejected                        |
|            |  | wire cloth                                       |  |
|            | rigid rotors   | UF wire mesh                                     | from the stars at very high velocities. Some W-F                   |
|            | tilting rotors   | RT fabrics                                       | spectra show emission lines due to carbon CWC                      |
|            | tip driven rotors  | reinforcement (structures)                       | stars; others show emission lines due to nitro                     |
|            | x wing rotors  | ∞ screens  | gen (WN stars). Used for W stars and W-R stars                     |
|            | slender wings  | sieves   | UF W stars   |
|            | infinite span wings  |  | W-R stars  |
|            | supercritical wings  | wire grid lenses                                 | GS celestial bodies  |
|            | swept wings  |  | . stars  |
|            |  |  |  |
|            | swept forward wings  | . wire grid lenses                               | early stars  |
|            | trapezoidal wings  | reticles   | hot stars  |
|            | sweptback wings  | . wire grid lenses                               | Wolf-Rayet stars   |
|            | arrow wings  | RT ∞ grids                                       | RT A stars   |
|            | delta wings  | lens antennas                                    | astrophysics   |
|            | trapezoidal wings  | magnetic lenses                                  | B stars  |
|            | swing wings  | turnstile antennas                               | carbon stars   |
|            |  | turnstile antennas                               |  |
|            | thin wings   | wire meeh  | celestial mechanics  |
|            | infinite span wings  | wire mesh  | ejecta   |
|            | twisted wings  | USE wire cloth                                   | helium   |
|            | uncambered wings   |  | nitrogen   |
|            | ring wings   | wire winding                                     | O stars  |
|            | unswept wings  | GS winding                                       | stellar envelopes  |
|            |  | . wire winding                                   | stellar luminosity   |
|            | infinite span wings  |  |  |
|            | infinite span wings rectangular wings  | RT magnet coils                                  | •  |
|            | rectangular wings  | RT magnet coils                                  | stellar mass ejection  |
|            | rectangular wings ring wings   | RT magnet coils wiring                           | •  |
| рΤ         | rectangular wings<br>ring wings<br>variable sweep wings  | wiring   | stellar mass ejection<br>white dwarf stars                         |
| RT         | rectangular wings ring wings variable sweep wings aircraft construction materials                            | wiring wireless communication                    | stellar mass ejection<br>white dwarf stars<br>wolves               |
| RT         | rectangular wings<br>ring wings<br>variable sweep wings<br>aircraft construction materials<br>aircraft parts | wiring wireless communication UF carrier systems | stellar mass ejection<br>white dwarf stars<br>wolves<br>GS animals |
| RT         | rectangular wings ring wings variable sweep wings aircraft construction materials                            | wiring wireless communication                    | stellar mass ejection<br>white dwarf stars<br>wolves               |

RT aircraft communication

airframes

... wolves

| RT             | dogs  | RT            | electron emission                                |              | transoceanic systems   |
|----------------|---|---------------|--|--------------|--|
| womon          |   | •             | ∞ functions                                      | Wastell      | M-t  |
| women<br>USE   | females   |               | ionization potentials perveance                  |              | Meteorological Organization<br>organizations                 |
|                |   |               | photoelectric emission                           | 00           | . World Meteorological                                       |
| wood           |   |               | Schottky diodes                                  |              | Organization   |
| GS             | wood . cork (materials)                         |               | thermionic emission                              | RT           | international cooperation                                    |
|                | . plywood                                       | ما باسمىد     | and an in m                                      |              | meteorology<br>United Nations                                |
| RT             | balsa   |               | ardening hardening (materials)                   |              | Officed Nations  |
|                | cellulose                                       | 00            | . work hardening                                 | World V      | Veather Watch  |
|                | Masonite (trademark) organic materials          |               | strain hardening                                 | USE          | meteorological services                                      |
|                | paper (material)                                | RT            | cold hardening                                   | Morld N      | Nide Web   |
|                | plants (botany)                                 |               | mechanical twinning metal working                |              | ed July 1995)  |
|                | slivers   |               | peening  | UF           | WWW  |
|                | trees (plants) wooden structures                |               | shot peening                                     | GS           | networks   |
|                | wooden structures                               |               | work softening                                   |              | . communication networks                                     |
| wooder         | structures                                      |               | · Marie · ·                                      |              | internets<br>World Wide Web                                  |
| RT             | plywood   |               | oftening  The phenomena of a drop in the yield   |              | . computer networks  |
| ~              | structures                                      |               | n of a metal when it has been strained or        |              | internets  |
|                | wood  |               | orked at low temperature and subse-              | DT           | World Wide Web   |
| wool           |   |               | strained at an elevated temperature to           | RT           | computer conferencing electronic bulletin boards             |
| SN             | (LIMITED TO ANIMAL FIBERS)                      | cause t       | he dislocations to become unstable. softening    |              | electronic commerce  |
| GS             | fabrics<br>. wool                               | 63            | . work softening                                 |              | information transfer   |
|                | fibers  | RT            | microstructure                                   |              | Java (programming language)                                  |
|                | . wool  |               | plastic deformation                              |              | protocol (computers) web services                            |
| RT             | felts   |               | work hardening                                   |              | websites   |
|                | hair<br>keratins                                | M/= white     | b-lit  |              |  |
|                | organic materials                               |               | orse helicopter CH-21 helicopter                 | worms        |  |
|                | sheep   | 002           | on 21 honooptoi                                  | GS           | animals  |
|                | yarns   | workin        | g fluids   |              | . invertebrates worms  |
| word n         | ocessing  |               | Fluids (gas or liquid) used as the me-           |              | flatworms  |
|                | The use of a computer, often with a             |               | r the transfer of energy from one part of        | RT           | infestation  |
|                | der full-screen control, to facilitate the      | a syste<br>RT | m to another. consumables (spacecraft)           |              | larvae   |
|                | g, storage, editing, updating, and orga-        | IXI           | ferrofluids                                      |              | Rotifera   |
|                | of information in the form of words,            |               | fluid power                                      | wound        | healing  |
| especial<br>RT | lly sentential information. computer techniques |               | fluid transmission lines                         | GS           | healing  |
|                | data processing                                 | •             | ∞ fluids   |              | . wound healing  |
|                | office automation                               |               | high temperature fluids<br>hydraulic fluids      | RT           | injuries   |
|                | words (language)                                |               | jet condensers                                   |              |  |
| words (        | language)                                       |               | phase change materials                           |              | composites<br>ed November 1992)                              |
| RT             | abbreviations                                   |               | sulfur hexafluoride                              |              | composite materials  |
|                | consonants (speech)                             |               | transmission fluids                              |              | fiber composites   |
|                | conversation                                    | worklo        | ads (psychophysiology)                           | DT           | woven composites   |
|                | English language grammars                       | RT            | fatigue (biology)                                | RT           | braided composites carbon fiber reinforced plastics          |
|                | languages                                       |               | human performance                                |              | epoxy matrix composites                                      |
|                | messages  |               | mental performance                               |              | fabrics  |
|                | orthography                                     |               | physical work                                    |              | glass fiber reinforced plastics                              |
|                | phonemes  |               | psychomotor performance<br>psychophysiology      |              | graphite-epoxy composites reinforcing fibers                 |
|                | phonemics phonetics                             |               | stress (psychology)                              |              | three dimensional composites                                 |
|                | semantics                                       |               | work capacity                                    |              | weaving  |
|                | sentences                                       |               |  |              |  |
|                | speech  |               | est cycle  | W-R sta      |  |
|                | terminology<br>terms                            | GS            | cycles . work-rest cycle                         | USE          | Wolf-Rayet stars   |
|                | thesauri  | RT            | fatigue (biology)                                | Wrange       | ell Mountains (AK)   |
|                | verbal communication                            |               | relaxation (physiology)                          | GS           | landforms  |
|                | voice communication vowels                      |               |  |              | . mountains  |
|                | word processing                                 | workst        |  | RT           | Wrangell Mountains (AK)<br>Alaska                            |
|                | g   | GS            | stations<br>. workstations                       | 111          | ridoria  |
| work           | _   |               | crew workstations                                | ∞ wrap       |  |
| GS             | work . physical work                            |               | crew experiment stations                         | SN           | (USE OF A MORE SPECIFIC TERM IS RECOMMENDEDCONSULT THE TERMS |
| RT ∝           | • energy  | рт            | crew observation stations                        |              | LISTED BELOW)  |
|                | heat  | RT            | human factors engineering<br>man machine systems | RT           | composite wrapping   |
|                | horsepower                                      |               | productivity                                     |              | packaging  |
|                | kinetic energy occupation                       |               | UNIX (operating system)                          | wraparo      | ound contact solar cells                                     |
|                | physical factors                                |               |  |              | solar cells  |
|                | . 2   | world         | Forth (closest)                                  |              |  |
| work ca        |   | USE           | Earth (planet)                                   | wrecka       |  |
| RT             | hyperkinesia<br>orbital workers                 | world .       | data centers                                     | RT           | accident investigation accidents                             |
|                | physical fitness                                |               | ∞ centers  |              | crashes  |
|                | physical work                                   |               | ∞ data   |              | sabotage   |
|                | workloads (psychophysiology)                    |               | data retrieval                                   |              | spacecraft breakup   |
| work fu        | nctions   |               | data storage                                     | wrench       | 95   |
| WORK TU        | Schottky effect                                 |               | International Geophysical Year libraries         | wrench<br>GS | tools  |
|                | •   |               |  |              |  |

(ID-MT-WY)

. wrenches . wrought alloys . . . . wurtzite Rene 41 zinc compounds wrinkling GS wrinkling Rene 63 . zinc sulfides Rene 77 . . wurtzite . flange wrinkling Waspaloy WWWbuckling WU-2 aircraft
USE **U-2 aircraft** USE World Wide Web deformation distortion WWW (meteorology)
USE meteorological services kinking wurtzite
GS chalcogenides
. sulfides
. inorganic sulfides
. zinc sulfides
. wurtzite
minerals
wurtzite ∞ ridges Wyoming wrist rist
GS anatomy
. musculoskeletal system
. . joints (anatomy)
. . . wrist
RT arm (anatomy)
hand (anatomy) GS nations . United States . Wyoming RT Bighorn Mountains (MT-WY) Black Hills (SD-WY) Wind River Range (WY) Yellowstone National Park sulfur compounds . sulfides

. . inorganic sulfides . . . zinc sulfides

wrought alloys GS alloys

X hand USE superhigh frequencies X mesons GS particles . elementary particles . . bosons . . . mesons . . meson resonance . . fermions . . . meson resonance . . hadrons . . . mesons . . . . meson resonance . nuclear particles . . bosons . . . mesons . . . . meson resonance . . . . . X mesons resonance . meson resonance .. X mesons x ray absorption energy absorption . radiation absorption . . electromagnetic absorption . . x ray absorption RT ∞ absorption electron spectroscopy x ray detectors x ray analysis (EXCLUDES X RAY STRESS ANALYSIS) x ray analysis . Laue method . x ray spectroscopy RT ∞ analyzing chemical analysis crystallography defects fluoroscopy lattice parameters ∞ materials tests microanalysis microbeams radiography radiology stereochemistry tomography

. . X mesons

. X mesons

.. X mesons

x ray apparatus GS medical equipment

x ray apparatus . . lixiscopes . x ray tubes

 $RT \, \infty \, equipment$ radiography x ray detectors

x ray astronomy

astronomy

x ray astronomy

RT Constellation-X cosmic x rays

Exosat satellite gamma ray astronomy gamma ray bursts Ginga satellite

Granat satellite grazing incidence telescopes

HEAO 4

lixiscopes radiography ROSAT mission SAS-3

Tenma satellite Uhuru satellite ultraviolet telescopes

X Ray Astrophysics Facility

x ray binaries x ray detectors x ray sources x ray stars

XMM-Newton telescope

X Ray Astrophysics Facility

DEF Free-flying x ray observatory that is shuttle-launched, maintainable in orbit, and retrievable. Used for Advanced X Ray Astrophysics Facility and AXAF.

Advanced X Ray Astrophysics Facility **AXAF** 

Chandra X Ray Astrophysics Facility artificial satellites GS

. scientific satellites

. . astronomical satellites . . . X Ray Astrophysics Facility

observatories
. astronomical observatories

. . astronomical satellites

. X Ray Astrophysics Facility payloads

. Space Shuttle payloads

X Ray Astrophysics Facility telescopes

. spaceborne telescopes

. X Ray Astrophysics Facility

. x ray telescopes

. X Ray Astrophysics Facility

astrophysics ∞ facilities

spaceborne astronomy x ray astronomy

XMM-Newton telescope

x ray binaries

DEF Bright galactic x ray sources consisting of a compact star (neutron star or black hole) accreting matter from a close companion star.

GS celestial bodies

. stars

. . double stars . . . binary stars

.... x ray binaries

. . x ray stars

.. x ray binaries x ray sources

. x ray stars . x ray binaries

accretion disks astrophysics

black holes (astronomy) companion stars

cosmic x rays eclipsing binary stars neutron stars

stellar mass accretion x ray astronomy

x rays

x ray density measurement

density measurement

x ray density measurement

flux density

x ray detectors

(added April 1992)

GS measuring instruments

. radiation measuring instruments

. . actinometers

. x ray detectors bolometers

infrared detectors

multi-anode microchannel arrays

photodiodes photometers radiometers

ultraviolet detectors x ray absorption

x ray apparatus x ray astronomy x ray spectroscopy

x ray telescopes

x rays

x ray diffraction GS

diffraction

. x ray diffraction

crystallography electron diffraction Laue method metallography

radiography x ray optics

x ray fluorescence

GS emission

. light emission . . Iuminescence . . . fluorescence

.... x ray fluorescence . . . photoluminescence ... x ray fluorescence

RT radiography

x ray imagery

DEF Reproduction of an object by means of focusing penetrating electromagnetic radiation (wavelengths ranging from 10-5 to 103 angstroms) coming from the object or reflected by the object. Analogous to infrared imagery, radar imagery and microwave imagery using the IR, radar and microwave frequencies.

GS imagery

x ray imagery imaging techniques infrared imagery lixiscopes microwave imagery

radar imagery radiography

x ray inspection

GS inspection . x ray inspection

nondestructive tests radiography ∞ tests

x ray irradiation

GS irradiation

. x ray irradiation

x ray lasers

GS stimulated emission devices

. lasers

. x ray lasers

electron transitions laser outputs

X Ray Multi-Mirror Mission

(added August 2000)
USE XMM-Newton telescope

x ray optics

(added January 1994)

DEF The study and application of x ray properties and phenomena that are similar to the optical characteristics of visible light.

geometrical optics grazing incidence mirrors

∞ optics

x ray diffraction

x ray telescopes x rays

x ray scattering

GS scattering

. wave scattering

. . electromagnetic scattering

. . x ray scattering

RT form factors

x ray sources

GS x ray sources

. x ray stars

. . soft gamma repeaters

. x ray binaries

RT cooling flows (astrophysics)

cosmic x rays Exosat satellite galactic bulge

gamma ray sources (astronomy)

magnetars □ radiation

ROSAT mission

spectral counterparts (astronomy)

x rav astronomy

x rays x ray spectra GS

spectra . radiation spectra

. . electromagnetic spectra

. x ray spectra

Ginga satellite

North Polar Spur (astronomy)

quasars solar spectra stellar spectra Tenma satellite x ray spectrometers

X ray spectrography

USE x ray spectroscopy

#### x ray spectrometers

(added October 1996)

GS measuring instruments

. spectrometers

. x ray spectrometers

spectroscopy x ray spectra x ray telescopes

X ray spectrometry

USE x ray spectroscopy

X Ray Spectropolarimetry Payload
USE **EXPOS (Spacelab payload)** 

#### x ray spectroscopy

X ray spectrography X ray spectrometry GS spectroscopy

x ray spectroscopy

x ray analysis

x ray spectroscopy

RT astronomical spectroscopy coordination number

molecular spectroscopy radio spectroscopy radiography

spectroscopic analysis ultraviolet spectroscopy vacuum spectroscopy

x ray detectors

#### x rav stars

DEF Stars with strong emission in the x ray portion of the electromagnetic spectrum. Used for extars.

UF extars GS

celestial bodies

. stars

. . x ray stars

. . . soft gamma repeaters . . . x ray binaries

x ray sources . x ray stars

. . soft gamma repeaters

. x ray binaries

emission spectra Ginga satellite neutron stars radiation sources stellar radiation Tenma satellite Uhuru satellite x ray astronomy

x ray telescopes

x rays

#### x ray stress analysis

stress analysis

. x ray strėss analysis

stresses

temperature inversions

#### x ray stress measurement

GS mechanical measurement

. stress measurement

. . x ray stress measurement

#### x ray telescopes

GS telescopes

. x ray telescopes

. . Constellation-X

. . X Ray Astrophysics Facility

. XMM-Newton telescope grazing incidence telescopes

Kvant modules radiography

ROSAT mission Swift observatory

x ray detectors

x ray optics x ray spectrometers

x ray stars

#### X Ray Timing Explorer

DEF An Explorer satellite planned for late 1993 or 1994 to consist of three experiments: a large area proportional counter, an all sky monitor, and a high energy x ray timing experiment. The package is designed to measure the time variability of x ray sources and broad band

Rossi X Ray Timing Explorer RXTE (satellite)

artificial satellites

. scientific satellites

. . Explorer satellites

... X Ray Timing Explorer

DEF Vacuum tubes designed to produce x rays by accelerating electrons to a high velocity by means of an electrostatic field, then suddenly stopping them by collision with a target.

medical equipment

. x ray apparatus

. x ray tubes electron tubes radiography

Nonnuclear electromagnetic radiation of very short wavelength, lying within the interval of 0. 1 to 100 angstroms (between gamma rays, and ultraviolet radiation).

GS electromagnetic radiation

. x rays

. . cosmic x rays . . solar x-rays ionizing radiation

. x rays

. . cosmic x rays . solar x-rays

auroras

blackout (propagation)

bremsstrahlung

cosmic rays emission spectra

extraterrestrial radiation

far ultraviolet radiation

gamma rays

monochromatic radiation

radiography

radiology

synchrotron radiation

system generated electromagnetic

pulses x ray binaries

x ray detectors

x ray optics

x ray sources

x ray stars

#### x wing rotors

DEF A new VTOL concept utilizing the stopped rotor X-wing aircraft.

GS airfoils

. wings

. . rotary wings

. . . x wing rotors rotating bodies

. rotors

. . rotary wings

. . . x wing rotors

RT circulation control rotors

∞ rotor blades

#### X-1 aircraft

Bell aircraft GS . X-1 aircraft

monoplanes

. X-1 aircraft

research vehicles . research aircraft

. X-1 aircraft

rocket vehicles . rocket planes

... X-1 aircraft supersonic aircraft

. X-1 aircraft

RT ∞ aircraft

## X-2 aircraft

GS Bell aircraft

. X-2 aircraft

monoplanes . X-2 aircraft

research vehicles

. research aircraft

.. X-2 aircraft

rocket vehicles

. rocket planes

... X-2 aircraft supersonic aircraft

X-2 aircraft

RT ∞ aircraft

#### X-3 aircraft

GS jet aircraft

X-3 aircraft

McDonnell Douglas aircraft

. Douglas aircraft

monoplanes

X-3 aircraft

research vehicles

. research aircraft . . X-3 aircraft

supersonic aircraft X-3 aircraft

 $RT \, \infty \, aircraft$ 

## X-5 aircraft

Bell aircraft GS

X-5 aircraft

jet aircraft

. X-5 aircraft

monoplanes . X-5 aircraft

research vehicles

. research aircraft

. X-5 aircraft  $RT \, \infty \, aircraft$ 

X-13 aircraft GS jet aircraft

. X-13 aircraft

monoplanes

. X-13 aircraft

research vehicles

. research aircraft X-13 aircraft

Ryan aircraft

X-13 aircraft

V/STOL aircraft . vertical takeoff aircraft

. . X-13 aircraft RT ∞ aircraft

X-14 aircraft GS Bell aircraft

X-14 aircraft

jet aircraft

X-14 aircraft

monoplanes X-14 aircraft

research vehicles

. research aircraft . X-14 aircraft

V/STOL aircraft

. vertical takeoff aircraft

. X-14 aircraft RT ∞ aircraft

# X-15 aircraft

North American aircraft

. X-15 aircraft research vehicles

. research aircraft . . X-15 aircraft

rocket vehicles

. rocket planes X-15 aircraft supersonic aircraft

X-15 aircraft

 $RT \, \infty \, aircraft$ XLR-99 engine

#### X-17 reentry vehicle

reentry vehicles

X-17 reentry vehicle

rocket vehicles

solid propellant rocket engines

#### X-19 aircraft

GS Curtiss-Wright aircraft

. X-19 aircraft research vehicles

. research aircraft

. . X-19 aircraft

tandem wing aircraft

. X-19 aircraft V/STOL aircraft

. vertical takeoff aircraft

. X-19 aircraft

RT ∞ aircraft

#### X-20 aircraft

Dyna-Soar space glider

GS Boeing aircraft

. X-20 aircraft

gliders

. boostglide vehicles

. . X-20 aircraft

. hypersonic gliders

. X-20 aircraft hypersonic vehicles

. hypersonic aircraft

. . hypersonic gliders

. X-20 aircraft

lifting bodies

. lifting reentry vehicles

.. X-20 aircraft
maneuverable spacecraft

. X-20 aircraft reentry vehicles

. boostglide vehicles

. X-20 aircraft

. maneuverable reentry bodies . . lifting reentry vehicles

... X-20 aircraft

research vehicles

. research aircraft

. X-20 aircraft

RT aerospace planes

∞ aircraft

manned spacecraft soft landing spacecraft

#### X-21 aircraft

GS jet aircraft

X-21 aircraft

monoplanes X-21 aircraft

Northrop aircraft

X-21 aircraft

research vehicles

. research aircraft . X-21 aircraft

RT ∞ aircraft

boundary layer control laminar boundary layer

## X-21A aircraft

GS jet aircraft

X-21A aircraft monoplanes

X-21A aircraft

Northrop aircraft

. X-21A aircraft

research vehicles

. research aircraft

. X-21A aircraft

RT ∞ aircraft laminar flow

#### X-22 aircraft

Bell aircraft GS

. X-22 aircraft

research vehicles

research aircraft

. X-22 aircraft

V/STOL aircraft

. vertical takeoff aircraft

. X-22 aircraft

RT ∞ aircraft

tandem wing aircraft tilt wing aircraft

#### X-22A aircraft

GS research vehicles

. research aircraft

. X-22A aircraft

tandem wing aircraft

X-22A aircraft

V/STOL aircraft

. vertical takeoff aircraft

. . X-22A aircraft

RT ∞ aircraft

#### X-24 aircraft

GS lifting bodies

. lifting reentry vehicles

. . X-24 aircraft

reentry vehicles . maneuverable reentry bodies

. . lifting reentry vehicles

... X-24 aircraft

research vehicles

. research aircraft

. X-24 aircraft

RT ∞ aircraft

#### X-29 aircraft

RT ∞ aircraft

swept forward wings

#### X-30 vehicle

GS aerospace vehicles

. aerospace planes

X-30 vehicle

hypersonic vehicles X-30 vehicle

maneuverable spacecraft

. aerospace planes

. X-30 vehicle

reentry vehicles
. recoverable spacecraft

. . reusable spacecraft

... aerospace planes .... X-30 vehicle

research vehicles

X-30 vehicle

soft landing spacecraft

. aerospace planes

. X-30 vehicle National Aerospace Plane Program RT

single stage to orbit vehicles ∞ spacecraft

transatmospheric vehicles

# X-31 aircraft

(added June 1994)

DEF A research aircraft (single-engine, delta-wing/canard configuration) designed to demonstrate enhanced fighter maneuverability (EFM) and post-stall controllability through the use of thrust vector control at very high angleof-attack.

jet aircraft

. X-31 aircraft

monoplanes X-31 aircraft

research vehicles

. research aircraft

. X-31 aircraft RT ∞ aircraft

aircraft maneuvers

canard configurations

fighter aircraft thrust vector control

## X-32 aircraft

(added October 1998)

DEF Experimental supersonic strike fighter developed to be configured as a conventional or short takeoff/vertical landing vehicle. Developed as part of the Joint Strike Fighter (JSF) program.

Boeing aircraft X-32 aircraft

. X-32 aircraft

research vehicles . research aircraft

. X-32 aircraft

supersonic aircraft

X-32 aircraft V/STOL aircraft

. X-32 aircraft

#### X-33 reusable launch vehicle

(added January 1996)

GS launch vehicles

. reusable launch vehicles

X-33 reusable launch vehicle

liquid propellant rocket engines recoverable launch vehicles reusable spacecraft

VentureStar launch vehicle

# X-34 reusable launch vehicle

(added January 1996)

launch vehicles

. reusable launch vehicles

. X-34 reusable launch vehicle

air launching

Boeing 747 aircraft

liquid propellant rocket engines recoverable launch vehicles

reusable spacecraft

# X-35 aircraft

(added October 1998)

DEF Experimental strike fighter incorporating a vertical lift fan for short takeoff/vertical landing capability. Developed as part of the Joint Strike Fighter (JSF) program.

GS jet aircraft

X-35 aircraft

Lockheed aircraft

. X-35 aircraft research vehicles

. research aircraft

. X-35 aircraft V/STOL aircraft . X-35 aircraft

# X-36 aircraft

(added March 1996)

GS McDonnell Douglas aircraft

. X-36 aircraft research vehicles

. research aircraft

. . X-36 aircraft

tailless aircraft
. X-36 aircraft

 $RT \, \infty \, aircraft$ B-2 aircraft flight test vehicles

X-37 vehicle

(added March 2000) NASA/Boeing experimental space plane developed to demonstrate airframe, propulsion, and operations technologies for reduced-cost reusable launch vehicles. The unpiloted X-37 can be carried into orbit by the Space Shuttle or launched by an expendable rocket, and flies in both orbital and reentry environments, operating at speeds up to 25

times the speed of sound.

GS aerospace vehicles . aerospace planes

. X-37 vehicle

hypersonic vehicles . X-37 vehicle

maneuverable spacecraft . aerospace planes

. . X-37 vehicle reentry vehicles

. recoverable spacecraft . . reusable spacecraft

... aerospace planes .... X-37 vehicle

research vehicles . X-37 vehicle

soft landing spacecraft . aerospace planes

. X-37 vehicle RT reusable launch vehicles

∞ spacecraft

iet aircraft

xenon compounds X-40A vehicle RT Antares rocket vehicle turboprop engines Blue Scout rocket vehicle X-38 crew return vehicle Scout launch vehicle xenon (added December 1996) chemical elements GS recovery vehicles X-258 engines . rare gases X-38 crew return vehicle GS engines . . xenon Assured Crew Return Vehicle . rocket engines ... xenon isotopes escape capsules . . solid propellant rocket engines .... xenon 129 lifeboats ... X-258 engines .... xenon 133 rescue operations . . X-258-B1 engine ... xenon 135 return to Earth space flight RT Scout launch vehicle gases space stations . rare gases X-258-B1 engine . . xenon X-40A vehicle GS engines . . . xenon isotopes (added September 2001) . rocket engines .... xenon 129 DEF NASA/Boeing 80-percent scale model . . solid propellant rocket engines .... xenon 133 demonstrator of the X-37 pilotless space plane, ... X-258 engines . . . . xenon 135 intended to evaluate systems and technologies . . . . X-258-B1 engine to be used in future reusable space or launch X-259 engine xenon 129 GS aerospace vehicles GS chemical elements GS engines . aerospace planes . nuclides . rocket engines ... X-40A vehicle . . solid propellant rocket engines . . isotopes maneuverable spacecraft . . X-259 engine . . . xenon isotopes . aerospace planes . . . . xenon 129 RT Scout launch vehicle . X-40A vehicle . rare gases reentry vehicles . . xenon X-405 engine . recoverable spacecraft ... xenon isotopes engines GS . . reusable spacecraft . rocket engines . . . . xenon 129 . . . aerospace planes . . booster rocket engines gases ... X-40A vehicle X-405 engine . rare gases research vehicles liquid propellant rocket engines
. X-405 engine . . xenon . X-40A vehicle . . . xenon isotopes soft landing spacecraft .... xenon 129 RT Vanguard project . aerospace planes
. . X-40A vehicle
reusable launch vehicles xanthic acids xenon 133 GS GS chemical elements X-37 vehicle xanthic acids . nuclides organic liquids RT . . isotopes X-43 vehicle ... radioactive isotopes (added September 1999) xanthines . . . . xenon 133 The experimental research vehicle of fungicides the NASA Hyper-X program designed to flight validate key propulsion and related technologies GS . . . xenon isotopes . xanthines . . . . xenon 133 . rare gases . . caffeine for air-breathing hypersonic aircraft. . . guanines . . xenon aerospace vehicles GS . uric acid X-43 vehicle . . . xenon isotopes nitrogen compounds hypersonic vehicles . . . . xenon 133 . xanthines X-43 vehicle gases . . caffeine research vehicles . rare gases . . guanines X-43 vehicle . . xenon . uric acid . . . xenon isotopes hypersonic flight organic compounds Pegasus air-launched booster . . . . xenon 133 . cyclic compounds supersonic combustion ramjet . . heterocyclic compounds engines . . . purines xenon 135 . . . . xanthines GS chemical elements X-45 aircraft . nuclides . . . . . caffeine (added February 2003) . . . . . guanines . . isotopes DEF An unmanned combat air vehicle . . . radioactive isotopes . . . . . uric acid (UCAV) demonstrator developed to test the use . . . . xenon 135 of such aircraft in enemy air-defense suppres-. . . xenon isotopes XB-47 aircraft sion and other strike missions. The vehicle was USE **B-47 aircraft** . . . . xenon 135 developed as part of a joint DARPA/U.S. Air . rare gases Force/Boeing program. XB-70 aircraft . . xenon GS pilotless aircraft . . . xenon isotopes USE B-70 aircraft . X-45 aircraft . . . . xenon 135 research vehicles gases XBQM-180A aircraft . research aircraft USE VATOL aircraft . rare gases . X-45 aircraft . . xenon tailless aircraft . . . xenon isotopes XC-142 aircraft X-45 aircraft . . . . xenon 135 C-142 aircraft Boeing aircraft GS Fairchild-Hiller aircraft ∞ military aircraft XC-142 aircraft stealth technology xenon chloride lasers jet aircraft DEF Rare gas-halide lasers using XeCl as X-248 engine XC-142 aircraft the active material. Altair engine Ling-Temco-Vought aircraft GS stimulated emission devices engines . XC-142 aircraft . lasers . rocket engines monoplanes . . gas lasers XC-142 aircraft

Ryan aircraft

XC-142 aircraft

. XC-142 aircraft

XC-142 aircraft

. vertical takeoff aircraft

XC-142 aircraft

transport aircraft

V/STOL aircraft

RT ∞ aircraft

tilt wing aircraft

#### X-254 engine

- engines
  - . rocket engines
  - . . solid propellant rocket engines

. . solid propellant rocket engines

... X-254 engine

X-248 engine

Scout launch vehicle

Blue Scout rocket vehicle

vanguard 2 launch vehicle

RT ∞ chemical compounds

... rare gas-halide lasers

electron transitions

excimer lasers

laser materials

ultraviolet lasers

laser outputs

... xenon chloride lasers

| c             | ∞ rare gas compounds                         |             | baryons  |              | V/STOL aircraft   |
|---------------|--|-------------|--|--------------|---|
| yenon :       | fluoride lasers                              |             | hyperons<br>xi hyperons  | PT.          | . XV-3 aircraft<br>∞ aircraft                                 |
| DEF           | Lasers using XeF as the active mate-         |             | hadrons  | IXI ·        | tilting rotors  |
| rial.         | 3  |             | baryons  |              | 9   |
| GS            | stimulated emission devices                  |             | hyperons   | XV-4 ai      | rcraft  |
|               | . lasers                                     |             | xi hyperons  | UF           | Hummingbird aircraft  |
|               | gas lasers rare gas-halide lasers            |             | mesons<br>hyperons   |              | Lockheed XV-4A aircraft                                       |
|               | xenon fluoride lasers                        |             | xi hyperons  |              | V-4 aircraft<br>VZ-10 aircraft                                |
| RT            | electron transitions                         |             | . nuclear particles  | GS           |   |
|               | excimer lasers                               |             | bosons   |              | . XV-4 aircraft   |
|               | laser materials                              |             | mesons   |              | Lockheed aircraft   |
|               | laser outputs                                |             | hyperons   |              | . XV-4 aircraft   |
| xenon         | isotopes                                     |             | xi hyperons xi hyperons  |              | monoplanes . XV-4 aircraft                                    |
| GS            | chemical elements                            |             | Xi ilyperolis  |              | research vehicles   |
|               | . nuclides                                   | XJ-34-V     | NE-32 engine   |              | . research aircraft   |
|               | isotopes                                     | USE         | J-34 engine  |              | XV-4 aircraft   |
|               | xenon isotopes<br>xenon 129                  | V 1 70 (    | GE-1 engine  |              | V/STOL aircraft   |
|               | xenon 133                                    |             | J-79 engine  |              | . vertical takeoff aircraft                                   |
|               | xenon 135                                    | 002         | o to oligino   | PT.          | XV-4 aircraft<br>∞ aircraft                                   |
|               | . rare gases                                 |             | engine   | IXI ·        | ~ all craft   |
|               | xenon  | GS          | •  | XV-5 ai      | rcraft  |
|               | xenon isotopes<br>xenon 129                  |             | . rocket engines liquid propellant rocket engines                        | UF           |   |
|               | xenon 129                                    |             | XLR-99 engine  |              | VZ-11 aircraft  |
|               | xenon 135                                    | RT          | X-15 aircraft  |              | XV-5A aircraft  |
|               | gases  |             |  | GS           | fan in wing aircraft . XV-5 aircraft                          |
|               | . rare gases                                 | XM-6 s      |  |              | jet aircraft  |
|               | xenon  | USE         | squibs   |              | . XV-5 aircraft   |
|               | xenon isotopes<br>xenon 129                  | XM-8 s      | auih   |              | monoplanes  |
|               | xenon 133                                    |             | squibs   |              | . XV-5 aircraft   |
|               | xenon 135                                    |             | •  |              | research vehicles   |
|               |  | XM-33       |  |              | . research aircraft XV-5 aircraft                             |
| xenon         |  | UF<br>GS    | TX-33-39 engine engines  |              | Ryan aircraft   |
| GS            | lighting equipment . luminaires              | 00          | . rocket engines   |              | . XV-5 aircraft   |
|               | xenon lamps                                  |             | solid propellant rocket engines  |              | V/STOL aircraft   |
| RT            | arc lamps                                    |             | XM-33 engine   | рт           | . XV-5 aircraft   |
|               | flash lamps                                  | RT          | Blue Scout rocket vehicle  | KI (         | ∞ aircraft  |
|               | infrared radiation                           |             | EXOS sounding rocket Little Joe 2 launch vehicle                         | XV-5A        | aircraft  |
|               | mercury lamps                                |             | polaris missiles   |              | XV-5 aircraft   |
| xeroge        | ls   |             | Scout launch vehicle   | OOL          | XV 0 anoran   |
|               | led July 1997)                               |             | TX-354 engine  | XV-6A        | aircraft  |
| ĠS            | gels   |             |  |              | P-1127 aircraft   |
|               | . xerogels                                   |             | elescope)  |              |   |
| RT            | aerogels                                     |             | ed August 2000)  XMM-Newton telescope                                    | XV-8A        | aircraft  |
|               | porous materials silica gel                  | OOL         | Awiwi-Newton telescope   | GS           | research vehicles   |
|               | silicon dioxide                              | XMM-N       | ewton telescope  |              | . research aircraft   |
|               | sol-gel processes                            |             | ed August 2000)  |              | XV-8A aircraft<br>Ryan aircraft                               |
|               |  | DEF         | Spaceborne x-ray telescope, launched                                     |              | . XV-8A aircraft  |
| xerogra<br>GS | apny<br>imagani                              |             | ember 1999, providing simultaneous, oughput non-dispersive spectroscopic |              | utility aircraft  |
| GS            | imagery . reproduction (copying)             |             | (EPIC instrument), medium-resolution                                     |              | . XV-8A aircraft  |
|               | xerography                                   |             | ve spectroscopy (Reflection Grating                                      |              | V/STOL aircraft . XV-8A aircraft                              |
| RT            | electrostatic charge                         |             | meter), and optical/UV imaging and tim-                                  | RT :         | . ∧v-oA aircrait<br>∞ aircraft                                |
|               | photographs                                  |             | n a co-aligned instrument (Optical Moni-                                 | 101          | flexible wings  |
|               | photography                                  | tor).<br>UF | X Ray Multi-Mirror Mission   |              | Ü   |
| XH-51 I       | helicopter                                   | OI.         | XMM (telescope)  | XV-9A        | aircraft  |
| UF            | aerogyro helicopters                         | GS          | artificial satellites  | UF           | V-9 aircraft  |
|               | CL-595 helicopter                            |             | . ESA satellites   | GS           | Hughes aircraft   |
|               | H-51 helicopter                              |             | XMM-Newton telescope   |              | . XV-9A aircraft<br>iet aircraft                              |
|               | Lockheed 186 helicopter                      |             | . scientific satellites  |              | . XV-9A aircraft  |
| GS            | Lockheed CL-595 helicopter Lockheed aircraft |             | astronomical satellites XMM-Newton telescope                             |              | research vehicles   |
| 00            | . XH-51 helicopter                           |             | ESA spacecraft   |              | . research aircraft   |
|               | research vehicles                            |             | . ESA satellites   |              | XV-9A aircraft  |
|               | . research aircraft                          |             | XMM-Newton telescope   |              | V/STOL aircraft   |
|               | . XH-51 helicopter                           |             | observatories  |              | <ul> <li>rotary wing aircraft</li> <li>helicopters</li> </ul> |
|               | V/STOL aircraft . rotary wing aircraft       |             | . astronomical observatories astronomical satellites                     |              | military helicopters  |
|               | . helicopters                                |             | XMM-Newton telescope   |              | XV-9A aircraft  |
|               | rigid rotor helicopters                      |             | telescopes   | RT -         | ∞ aircraft  |
|               | XH-51 helicopter                             |             | . spaceborne telescopes  |              | tip driven rotors   |
|               |  |             | XMM-Newton telescope   | V/V 44 A     |   |
| xi hype<br>GS | particles                                    |             | . x ray telescopes XMM-Newton telescope                                  | XV-11A<br>GS | aircraft research vehicles                                    |
| 93            | . elementary particles                       | RT          | x ray astronomy  | 63           | . research aircraft   |
|               | bosons                                       | • • • •     | X Ray Astrophysics Facility  |              | XV-11A aircraft   |
|               | mesons                                       |             |  |              | V/STOL aircraft   |
|               | hyperons                                     | XV-3 ai     |  |              | . vertical takeoff aircraft                                   |
|               | xi hyperons<br>xi hyperons                   | UF<br>GS    | V-3 aircraft Bell aircraft   | DT           | XV-11A aircraft<br>∞ aircraft                                 |
|               | fermions                                     | 63          | . XV-3 aircraft  | IXI (        | ∞ aiiciaii<br>lift fans                                       |
|               |  |             |  |              |   |

shrouded propellers

XV-15 aircraft
DEF Experimental model of a tilt-rotor air-DEF Experimental model of a ti craft built by Bell Aircraft Company. GS Bell aircraft . XV-15 aircraft V/STOL aircraft . rotary wing aircraft . tilt rotor aircraft . . . XV-15 aircraft RT ∞ aircraft

helicopters

Tilt Rotor Research Aircraft Program

x-y plotters
GS recording instruments
. plotters

. . x-y plotters
RT digital to analog converters

xylene DEF A mixture of Carbon 8 aromatic hydro-

carbons.

GS organic compounds

RT

. . xylene toluene

xylose

GS organic compounds
. carbohydrates
. sugars
. . monosaccharides
. . pentose
. . . xylose

. hydrocarbons

YAG (garnet) ∞ military aircraft varns USE yttrium-aluminum garnet RT cordage cotton YC-15 aircraft fibers USE C-15 aircraft YAG lasers ∞ rovings GS electronic equipment strands . solid state devices wool YC-123 aircraft . . solid state lasers USE C-123 aircraft .. YAG lasers YAV-8B aircraft stimulated emission devices USE Harrier aircraft . lasers veast . . solid state lasers GS plants (botany) ... YAG lasers . fungi yaw laser heating . yeast UF damping in yaw laser materials RT ∞ food fishtailing laser outputs yawmeters yttrium-aluminum garnet attitude (inclination) Yellowstone National Park (ID-MT-WY) . yaw GS land aerodynamic stability Yaqi antennas coning motion directional control Directional antennas used on some . . national parks types of radar and radio equipment consisting of an array of elemental, single wire dipole anten-... Yellowstone National Park directional stability (ID-MT-WY) lateral oscillation RT Idaho nas and reflectors. ∞ motion Montana GS antennas pitch (inclination) Wyoming . directional antennas roll . Yagi antennas rotation arrays Yemen sideslip . antenna arrays skidding GS nations . . linear arrays turning flight Yemen ... endfire arrays Asia RT yawing moments ... Yagi antennas RT antenna design dipole antennas YF-12 aircraft yawing moments directors (antenna elements) GS attack aircraft DEF Moments that tend to rotate aircraft, parasitic elements (antennas) . fighter aircraft airfoils, rockets, or spacecraft about a vertical waveguide antennas . YF-12 aircraft RT ∞ aircraft GS moments aircraft design . stability derivatives Yak 40 aircraft ∞ interceptors . yawing moments GS general aviation aircraft jet aircraft aerodynamic coefficients Yak 40 aircraft lateral oscillation jet aircraft reconnaissance aircraft moments of inertia . Yak 40 aircraft research aircraft pitching moments passenger aircraft
. Yak 40 aircraft rolling moments torque Yakovlev aircraft YF-16 aircraft vaw Yak 40 aircraft USE F-16 aircraft RT ∞ aircraft yawmeters YF-17 aircraft USE attitude indicators USE F-17 aircraft YAK aircraft Yakovlev aircraft USF YF-22 aircraft Y-Ba-Cu-O superconductors USE F-22 aircraft Yakovlev aircraft USE YBCO superconductors (added September 1995) YAK aircraft YF-102 aircraft
USE **F-102 aircraft** Yakovlev aircraft YBCO superconductors Yak 40 aircraft (added September 1992) RT ∞ aircraft Y-Ba-Cu-O superconductors YHU-1 helicopter chalcogenides USE UH-1 helicopter . oxides Yang-Mills fields . . metal oxides Types of fields based upon Yang-Mills DFF . . . mixed oxides yield theory. . . . YBCO superconductors RT losses electromagnetic fields field theory (physics) RT output . superconductors (materials) gauge theory . . high temperature superconductors gravitational fields . . YBCO superconductors yield point perturbation theory barium oxides damage threshold UF Yang-Mills theory ceramics Luder bands cermets mechanical properties copper oxides . plastic properties Yang-Mills theory cuprates yield point DEF Mathematical idea for describing interlow temperature physics microyield strength actions among elementary particles which is superconducting films Tresca flow based on the idea of gauge invariance under a superconductivity non Abelian group. Used for Casimir energy. thin films field theory (physics) yield strength yttrium oxides gauge theory The stress at which a material exhibits a specific limiting deviation from the proportionperturbation theory space-time functions YC-14 aircraft ality of stress to strain. This deviation is exstatistical analysis GS transport aircraft pressed in terms of strain.

. cargo aircraft

Boeing aircraft

RT ∞ aircraft

YC-14 aircraft

GS mechanical properties

. yield strength
. . load carrying capacity

. . microyield strength

supergravity

theoretical physics

| RT       | ductile-brittle transition                           | Young-Helmholtz theory                                  |          | thin films                                 |
|----------|--|---|----------|--|
|          | elastic properties                                   | RT color vision   |          | yttrium oxides                             |
|          | fracture strength                                    | photoreceptors<br>∞ theories                            |          |  |
|          | high strength  | 35 tricones   | yttrium  |  |
|          | J integral plastic deformation                       | youth   | GS       | chemical elements                          |
|          | ∞ strength   | RT adults   |          | . rare earth elements yttrium              |
|          | stresses   | growth  |          | yttrium isotopes                           |
|          | stress-strain diagrams                               | human beings  |          | metals                                     |
|          | stress-strain relationships                          | yo-yo devices   |          | . rare earth elements                      |
|          | temperature inversions                               | RT angular acceleration                                 |          | yttrium                                    |
|          |  | gyroscopic stability                                    |          | yttrium isotopes                           |
|          |  | satellite rotation                                      |          | . transition metals yttrium                |
| YIG (ga  |  | spin  |          | yttrium isotopes                           |
| USE      | yttrium-iron garnet                                  | spin reduction  |          | ,  |
|          |  | yrast state   | yttrium  | allovs                                     |
|          |  | (added December 2001)                                   | •        | alloys                                     |
|          | urbojet engine                                       | DEF An energy state in which the energy                 |          | . yttrium alloys                           |
| USE      | J-73 engine  | level of a nucleus is less than that of all other       | RT       | rare earth alloys                          |
|          |  | states with the same spin. GS level (quantity)          |          |  |
| V172/    | OF 2 angino  | . energy levels   |          | compounds                                  |
|          | GE-3 engine<br>J-73 engine                           | yrast state   | GS       | yttrium compounds                          |
| OOL      | 0 70 engine  | RT ground state   |          | . yttrium oxides . yttrium-aluminum garnet |
|          |  | nuclear spin  |          | . yttrium-iron garnet                      |
| YJ-79 6  | enaine   | nuclei (nuclear physics)                                | RT ∝     | chemical compounds                         |
|          | J-79 engine  | YS-11 aircraft  |          | Group 3B compounds                         |
|          |  | UF Nihon YS-11 aircraft                                 | ~        | metal compounds                            |
|          |  | GS jet aircraft   |          |  |
| YJ-85 e  | engine   | . turboprop aircraft                                    |          | isotopes                                   |
| USE      | J-85 engine  | . YS-11 aircraft  | GS       | chemical elements                          |
|          |  | monoplanes<br>. <b>YS-11 aircraft</b>                   |          | . nuclides                                 |
|          |  | Nihon aircraft  |          | isotopes<br>yttrium isotopes               |
| YJ-93 6  | engine   | . YS-11 aircraft  |          | . rare earth elements                      |
| USE      | J-93 engine  | passenger aircraft                                      |          | yttrium                                    |
|          |  | YS-11 aircraft  |          | yttrium isotopes                           |
|          |  | transport aircraft                                      |          | metals                                     |
|          | GE-3 engine  | . YS-11 aircraft  |          | . rare earth elements yttrium              |
| USE      | J-93 engine  | YSZ   |          | yttrium isotopes                           |
|          |  | USE yttria-stabilized zirconia                          |          | . transition metals                        |
|          |  |   |          | yttrium                                    |
| YLF las  |  | YT-2 aircraft   |          | yttrium isotopes                           |
|          | led August 1990)                                     | USE T-2 aircraft  |          |  |
| UF<br>GS | yttrium lithium fluoride lasers electronic equipment | ytterbium   |          | ithium fluoride lasers                     |
| 00       | . solid state devices                                | GS chemical elements                                    | USE      | YLF lasers                                 |
|          | semiconductor devices                                | . rare earth elements                                   |          |  |
|          | semiconductor lasers                                 | ytterbium   | yttrium  |  |
|          | YLF lasers   | ytterbium isotopes                                      | GS       | chalcogenides                              |
|          | solid state lasers                                   | metals . rare earth elements                            |          | . oxides metal oxides                      |
|          | YLF lasers   | ytterbium   |          | yttrium oxides                             |
|          | stimulated emission devices                          | ytterbium isotopes                                      |          | yttrium compounds                          |
|          | . lasers   |   |          | yttrium oxides                             |
|          | semiconductor lasers                                 | ytterbium compounds                                     | RT       | high temperature superconductors           |
|          | solid state lasers                                   | GS rare earth compounds                                 |          | YBCO superconductors                       |
|          | YLF lasers   | . <b>ytterbium compounds</b><br>RT ∞ chemical compounds |          | yttria-stabilized zirconia                 |
| RT       | infrared lasers                                      | ∞ metal compounds                                       |          |  |
|          |  | P. C. C.  |          | aluminum garnet                            |
|          |  | ytterbium isotopes                                      | UF<br>GS | YAG (garnet)<br>minerals                   |
|          | -AJ-1 engine   | GS chemical elements                                    | 00       | . garnets                                  |
| GS       | engines  | . nuclides  |          | . yttrium-aluminum garnet                  |
|          | . rocket engines                                     | isotopes<br><b>ytterbium isotopes</b>                   |          | silicon compounds                          |
|          | liquid propellant rocket engines YLR-91-AJ-1 engine  | . rare earth elements                                   |          | . silicates                                |
| RT       | Titan ICBM   | ytterbium   |          | garnets yttrium-aluminum garnet            |
|          |  | ytterbium isotopes                                      |          | yttrium compounds                          |
|          |  | metals  |          | . yttrium-aluminum garnet                  |
| yokes    |  | . rare earth elements<br>ytterbium                      | RT       | ferrites                                   |
| RT       | beam waveguides                                      | ytterbium isotopes                                      |          | magnetostatic amplifiers                   |
|          | connectors   | jatoraidii isotopos                                     |          | YAG lasers                                 |
|          | couplers   | yttria-stabilized zirconia                              |          |  |
|          | couples<br>deflection                                | (added February 1994)                                   |          | iron garnet                                |
|          | directional couplers                                 | UF YSZ  | UF       | YIG (garnet)                               |
|          | ferromagnetic materials                              | GS chalcogenides . oxides                               | GS       | minerals<br>. garnets                      |
|          | ∞ joining  | metal oxides  |          | . yttrium-iron garnet                      |
|          | linkages   | zirconium oxides  |          | silicon compounds                          |
|          | magnet coils   | yttria-stabilized zirconia                              |          | . silicates                                |
|          |  | zirconium compounds                                     |          | garnets                                    |
| Va       | moduluo  | . zirconium oxides                                      |          | yttrium-iron garnet                        |
| Young    | modulus modulus of elasticity                        | yttria-stabilized zirconia RT ceramics                  |          | yttrium compounds . yttrium-iron garnet    |
| JJL      |  | 55.5.11100  |          | . , on game                                |

# Yugoslavia

RT ferrites

magnetostatic amplifiers waveguide tuners

Yugoslavia

GS nations
. Yugoslavia

RT Adriatic Sea
Bosnia and Herzegovina
Croatia
Europe

Serbska Republic

YUH-1 helicopter

USE UH-1 helicopter

YUH-60A helicopter USE **UH-60A helicopter** 

YUH-61A helicopter USE **UH-61A helicopter** 

Yukawa potential

RT meson-nucleon interactions

∞ potential

Yukon aircraft

USE CL-44 aircraft

Yukon Territory

GS nations . Canada

. . Yukon Territory

| Z1 truss structure   | noon  | zero power reactor 9                                |
|--|---|---|
| (added October 2000)   | solar position  |   |
| USE Integrated Truss Structure Z1  | lites   | zero power reactors                                 |
| Z-37 aircraft  | zeolites GS silicon compounds                             | UF ZPR reactors GS nuclear reactors                 |
| UF Omnipol Z-37 aircraft   | . silicates   | . liquid cooled reactors                            |
| GS monoplanes  | zeolites  | water cooled reactors                               |
| Z-37 aircraft  | RT ion exchange resins                                    | zero power reactors                                 |
| utility aircraft   | minerals  | zero power reactor 2                                |
| . Z-37 aircraft  |   | zero power reactor 3                                |
| Zaire  | zero angle of attack GS geometry                          | zero power reactor 6<br>zero power reactor 9        |
| (added November 1997)  | GS geometry . Euclidean geometry                          | Zero power reactor 9                                |
| USE Democratic Republic of Congo   | angles (geometry)   | zero sound  |
| Zambia   | angle of attack   | GS acoustic properties                              |
| GS nations   | zero angle of attack                                      | . sound intensity                                   |
| . Zambia   |   | zero sound  |
| RT Africa  | zero crossings  | rates (per time)                                    |
| The second section 1.15  | USE roots of equations                                    | . flux density sound intensity                      |
| Zarya control module   | zero force curves   | zero sound  |
| (added November 1998) DEF Component of the International Space                         | RT curvature  | RT acoustic attenuation                             |
| Station providing propulsion, steering, and com-                                       | ∞ curves  | acoustics   |
| munications during the early assembly stages of  | ∞ force   | anechoic chambers                                   |
| the station; later serving as a docking port and                                       |   | reflection  |
| fuel tank. Zarya was built by Russia under   | zero gravity  | silencers<br>subaudible frequencies                 |
| contract to the U.S. and is owned by the U.S. GS modules                               | USE weightlessness  | Subdualble frequencies                              |
| . space station modules  | zero lift   | zero sum games                                      |
| Zarya control module   | GS aerodynamic characteristics                            | (added October 1998)                                |
| RT International Space Station   | . lift  | GS games  |
|  | zero lift   | . zero sum games                                    |
| zea mays   | aerodynamic forces  | RT differential games                               |
| (added August 2004)<br>USE corn  | . lift  | Markov processes optimal control                    |
| OSL COM  | <b>zero lift</b><br>dynamic characteristics               | pursuit-evasion games                               |
| Zeeman effect  | . lift  | saddle points (game theory)                         |
| RT ∞ effects   | zero lift   | 1 (5 )/   |
| magnetic fields  | RT aerodynamic stalling                                   | zero-g ACPL (Spacelab)                              |
| spectroscopy   | boundary layer separation                                 | USE Atmospheric Cloud Physics Lab                   |
| spectrum analysis<br>Stark effect  | distribution (property)                                   | (Spacelab)  |
| Voigt effect   | zero point energy   |   |
| <b>C</b>   | DEF Kinetic energy retained by molecules                  | Zeta Aurigae star                                   |
| zeitgebers   | of a substance at a temperature of absolute               | GS celestial bodies . stars                         |
| (added December 2001)  | zero.   | double stars  |
| DEF Environmental cues that help keep circadian and other biological rhythms; includes | RT absolute zero  | binary stars  |
| sunlight, noise, social interactions, and the use                                      | field theory (physics)                                    | eclipsing binary stars                              |
| of clocks.   | kinetic energy<br>thermodynamic properties                | Zeta Aurigae star                                   |
| GS cues  | thermodynamic properties                                  | RT Auriga constellation                             |
| zeitgebers   | zero power reactor 2                                      | zeta nineh  |
| RT activity cycles (biology) circadian rhythms   | GS nuclear reactors                                       | zeta pinch  DEF Type of plasma pinch produced by an |
| darkness   | . liquid cooled reactors                                  | electric current applied axially to a plasma cyl-   |
| desynchronization (biology)  | water cooled reactors                                     | inder in a controlled fusion reactor.               |
| phenology  | heavy water reactors zero power reactor 2                 | GS pinch effect                                     |
| physiological responses  | zero power reactors                                       | . plasma pinch                                      |
| rhythm (biology)   | zero power reactor 2                                      | <b>zeta pinch</b><br>RT controlled fusion           |
| ∞ stimuli<br>visual stimuli  | . nuclear research and test reactors                      | magnetohydrodynamic stability                       |
| vidual diffidit  | zero power reactor 2                                      | plasma compression                                  |
| Zener diodes   |   | plasma control                                      |
| USE avalanche diodes   | zero power reactor 3 GS nuclear reactors                  | plasma electrodes                                   |
| Zonor offeet   | . liquid cooled reactors                                  | plasma focus  |
| Zener effect RT barrier layers   | water cooled reactors                                     | Q devices<br>rotating plasmas                       |
| carrier density (solid state)  | zero power reactors                                       | screw pinch   |
| ∞ carriers   | zero power reactor 3                                      | theta pinch   |
| ∞ effects  | . nuclear research and test reactors                      | ·   |
| electric discharges  | . zero power reactor 3                                    | zeta thermonuclear reactor                          |
| field emission   | zero power reactor 6                                      | RT pinch effect                                     |
| Zenit launch vehicles  | GS nuclear reactors                                       | thermonuclear power generation                      |
| (added January 1999)   | . liquid cooled reactors                                  | thermonuclear reactions                             |
| GS launch vehicles   | water cooled reactors                                     | Zava missila  |
| . Zenit launch vehicles  | zero power reactors                                       | Zeus missile USE Nike-Zeus missile                  |
| RT sea launching   | zero power reactor 6 . nuclear research and test reactors | OOL WING ZOUS HINSSHO                               |
| Ukrainian space program  | zero power reactor 6                                      | Ziegler catalyst                                    |
| zenith   | power reductor o  | GS catalysts  |
| DEF That point of the celestial sphere ver-  | zero power reactor 9                                      | . Ziegler catalyst                                  |
| tically overhead. The point 180 deg. from the  | GS nuclear reactors                                       | RT polymerization                                   |
| zenith is called the nadir.  | . liquid cooled reactors                                  |   |
| RT antipodes   | water cooled reactors                                     | Zimbabwe  |
| apexes   | zero power reactors                                       | UF <i>Rhodesia</i><br>GS nations                    |
| celestial sphere<br>maxima   | zero power reactor 9 . nuclear research and test reactors | . Zimbabwe  |
| Паліна   | . Hadibar robbardir and tool roadiolo                     | · EIIIINANTIO                                       |

RT Africa . . zinc ferred to an external chamber for mixing and storing with an organic liquid complexing oil. . . . zinc isotopes zinc During discharge, the zinc is oxidized at the GS chemical elements zinc nickel batteries anode and the complexed bromine is reduced at . zinc USE nickel zinc batteries the cathode. . zinc isotopes electrochemical cells metals zinc oxides . electric batteries . transition metals GS chalcogenides . . storage batteries . . zinc . oxides . . zinc-bromide batteries .. metal oxides . . zinc isotopes zinc-chlorine batteries .. zinc oxides heavy metals zinc compounds zinc-chlorine batteries zinc alloys . zinc oxides DEF Candidate electric cells under developalloys GS ment for electric vehicles. zinc alloys zinc selenides GS electrochemical cells RT bearing alloys GS chalcogenides . electric batteries solders . selenides . . storage batteries . zinc selenides . zinc-chlorine batteries zinc antimonides selenium compounds zinc-bromide batteries GS antimony compounds . selenides . antimonides . zinc selenides zinc-oxygen batteries . zinc antimonides zinc compounds electric generators zinc compounds zinc selenides . direct power generators zinc antimonides Schottky diodes . . primary batteries . . . metal air batteries zinc chlorides zinc silver batteries . . zinc-oxygen batteries DEF Reaction products of hydrochloric acid USE silver zinc batteries electrochemical cells and zinc; white crystals soluble in water and . electric batteries alcohol and with a melting point of 290 degrees zinc silver oxide batteries . . primary batteries . . . metal air batteries USE silver zinc batteries GS halogen compounds . . . . zinc-oxygen batteries . chlorine compounds zinc sulfides chalcogenides . . chlorides zippers . . zinc chlorides . sulfides DEF Slide fasteners consisting of interlock-. . inorganic sulfides . halides able elements each attached to one of the . . chlorides ... zinc sulfides opposing edges of two tapes and a movable part . . . . wurtzite ... zinc chlorides called a 'slider' that spans the interlockable . zincblende . . metal halides elemets, which when moved in one direction sulfur compounds . . zinc chlorides causes the elements one one tape to interlock . sulfides zinc compounds with the elements on the other tape, and when zinc chlorides . . inorganic sulfides moved in the opposite direction causes the ... zinc sulfides elements to disengage. zinc coatings . . . . wurtzite GS fasteners . . zincblende galvanizing . zippers GS coatings zinc compounds RT holders . metal coatings zinc sulfides . zinc coatings . . wurtzite Zircaloy 2 (trademark) . . zincblende RT protective coatings GS alloys . zirconium alloys zinc compounds zinc tellurides . . Zircaloys (trademark) GS zinc compounds GS chalcogenides ... Zircaloy 2 (trademark) . zinc antimonides . tellurides . zinc chlorides . zinc tellurides Zircaloys (trademark) . zinc fluorides tellurium compounds GS alloys . zinc oxides . tellurides . zirconium alloys . zinc selenides zinc tellurides ... Zircaloys (trademark) . zinc sulfides zinc compounds . . Zircaloy 2 (trademark) zinc tellurides . . wurtzite RT iron alloys . . zincblende tin alloys . zinc tellurides zinc tungstates GS tungsten compounds zirconates zinc tungstates RT ∞ chemical compounds . tungstates zirconium compounds . zirconates . zinc tungstates . . barium zirconates ∞ metal compounds zinc compounds . zinc tungstates . . strontium zirconates zinc fluorides GS halogen compounds zincblende zirconia . fluorine compounds DEF Zinc sulfide, ZnS; a cubic crystal. Used USE zirconium oxides . . fluorides for sphalerite. . . . metal fluorides UF sphalerite zirconium . zinc fluorides GS chalcogenides chemical elements GS . halides . sulfides . zirconium . . fluorides . . inorganic sulfides . . zirconium isotopes . . . metal fluorides ... zinc sulfides . . zirconium 95 .... zinc fluorides . zincblende metals . . metal halides minerals . transition metals ... metal fluorides . zincblende . . zirconium . . . . zinc fluorides sulfur compounds . . . zirconium isotopes . . . . zirconium 95 zinc compounds . sulfides zinc fluorides . . inorganic sulfides . . . zinc sulfides zirconium 95 zinc isotopes ... zincblende GS chemical elements GS chemical elements zinc compounds . nuclides . nuclides . zinc sulfides . . isotopes . . . radioactive isotopes . . isotopes . . zincblende ... zinc isotopes . . . . zirconium 95 . . . zirconium isotopes . zinc zinc-bromide batteries DEF Electric cells in which during charge, zinc is plated on the anode and bromine is . . zirconium 95 . zinc isotopes metals . zirconium

evolved at the cathode. The bromine is trans-

. . zirconium isotopes

transition metals

. . . zirconium 95 . . . . zirconium 95 UF zonal circulation GS circulation metals . transition metals zirconium nitrides . atmospheric circulation . . zirconium GS nitrogen compounds zonal flow (meteorology) . . . zirconium isotopes . nitrides air currents . . . . zirconium 95 . . metal nitrides annual variations . zirconium nitrides baroclinic instability zirconium compounds baroclinic waves zirconium alloys zirconium nitrides circumpolar westerlies GS alloys climatology . zirconium alloys zirconium oxides intertropical convergent zones Zircaloys (trademark) zirconia jet streams (meteorology) Zircaloy 2 (trademark) GS chalcogenides Madden-Julian Oscillation hafnium alloys . oxides meridional flow lithium alloys meteorology middle atmosphere . . metal oxides ... zirconium oxides zirconium carbides ... yttria-stabilized zirconia mixing height GS carbon compounds . carbides zirconium compounds planetary waves . zirconium oxides guasi-biennial oscillation . zirconium carbides . . yttria-stabilized zirconia wind (meteorology) zirconium compounds wind direction zirconium carbides zirconium titanates wind profiles GS titanium compounds zirconium compounds . titanates zonal harmonics zirconium compounds . . zirconium titanates GS analysis (mathematics) . zirconates . lead zirconate titanates . functional analysis . . barium zirconates . . harmonic analysis zirconium compounds . . strontium zirconates zirconium titanates . . zonal harmonics . zirconium carbides . . lead zirconate titanates harmonics . zirconium hydrides . zonal harmonics . zirconium iodides zodiac . zirconium nitrides constellations Zond 1 space probe . zirconium oxides GS interplanetary spacecraft ecliptic . . yttria-stabilized zirconia Scorpius constellation . Venus probes . zirconium titanates . . Zond 1 space probe Scutum constellation .. lead zirconate titanates . Zond space probes Zond 1 space probe zirconium fluorides zodiacal dust RT ∞ chemical compounds GS celestial bodies Soviet spacecraft . Zond space probes
. . Zond 1 space probe . meteoroids ∞ metal compounds . . micrometeoroids . . . meteoroid dust clouds unmanned spacecraft . . zodiacal dust zirconium fluorides . space probes extraterrestrial matter . . Venus probes (added April 2004) . interstellar matter GS halogen compounds . Zond 1 space probe . . cosmic dust . fluorine compounds . Zond space probes ... interplanetary dust . . fluorides . . Zond 1 space probe .... meteoroid dust clouds . . . metal fluorides . zodiacal dust Zond 2 space probe . . zirconium fluorides media . halides GS interplanetary spacecraft . interplanetary medium . . fluorides . Mars probes . . interplanetary dust . . . metal fluorides Zond 2 space probe ... meteoroid dust clouds .... zirconium fluorides . Zond space probes ... zodiacal dust . . metal halides . Zond 2 space probe particles ... metal fluorides Soviet spacecraft . dust . Zond space probes . zirconium fluorides . . cosmic dust Zond 2 space probe zirconium compounds . . . interplanetary dust . . . meteoroid dust clouds zirconium fluorides unmanned spacecraft . space probes . zodiacal dust . . Mars probes zirconium hydrides RT Explorer satellites Zond 2 space probe hydrogen compounds micrometeorites . Zond space probes . hydrides Poynting-Robertson effect ... Zond 2 space probe zirconium hydrides terrestrial dust belt zirconium compounds Zond 3 space probe zirconium hydrides zodiacal light GS interplanetary spacecraft electromagnetic radiation . Venus probes zirconium iodides . light (visible radiation) Zond 3 space probe GS halogen compounds . zodiacal light . Zond space probes . halides extraterrestrial radiation Zond 3 space probe . . metal halides . zodiacal light Soviet spacecraft . . zirconium iodides gegenschein . Zond space probes . iodine compounds Helios Project . . Zond 3 space probe . . iodides micrometeoroids unmanned spacecraft . zirconium iodides night sky . space probes zirconium compounds polarized light . . Venus probes zirconium iodides Poynting-Robertson effect Zond 3 space probe sky brightness . Zond space probes zirconium isotopes solar radiation ... Zond 3 space probe GS chemical elements sunlight . nuclides Zond 4 space probe GS interplanetary spacecraft . . isotopes zonal circulation ... zirconium isotopes USE zonal flow (meteorology) . Venus probes . zirconium 95 Zond 4 space probe Zonal Earth Energy Budget Experiment USE LZEEBE satellite . zirconium . Zond space probes

zonal flow (meteorology)

DEF The flow of air along a latitude circle;
more specifically, the latitudinal (east or west) of

existing flow. Used for zonal circulation.

. . zirconium isotopes

. . . zirconium isotopes

. . . zirconium 95

. transition metals

. . zirconium

metals

Zond 4 space probe

Zond 4 space probe

Soviet spacecraft

. space probes

. Zond space probes

unmanned spacecraft

#### Zond 5 space probe

. . Venus probes unmanned spacecraft . Zond 4 space probe . Zond space probes . Zond space probes . . Zond 1 space probe Zond 4 space probe Zond 2 space probe . . Zond 3 space probe Zond 5 space probe . . Zond 4 space probe GS interplanetary spacecraft . . Zond 5 space probe . Venus probes . . Zond 6 space probe Zond 5 space probe Zond 7 space probe . Zond space probes Zond 8 space probe Zond 5 space probe RT Mars probes Soviet spacecraft . Zond space probes Zond 5 space probe unmanned spacecraft zone melting . space probes zone refining .. Venus probes phase transformations ... Zond 5 space probe . freezing . . zone melting . Zond space probes ... Zond 5 space probe . melting . zone melting arc melting Zond 6 space probe GS interplanetary spacecraft crystallization Venus probes float zones . . Zond 6 space probe purification . Zond space probes refining . Zond 6 space probe ∞ separation Soviet spacecraft ultrapure metals . Zond space probes vacuum melting . Zond 6 space probe unmanned spacecraft . space probes zone refining .. Venus probes USE zone melting . Zond 6 space probe . Zond space probes . . Zond 6 space probe zones USE regions Zond 7 space probe GS interplanetary spacecraft . Venus probes Zond 7 space probe ∞ zoology Zond space probes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS SN Zond 7 space probe LISTED BELOW) animals Soviet spacecraft RT . Zond space probes botany . Zond 7 space probe entomology unmanned spacecraft ∞ science . space probes taxonomy . . Venus probes . Zond 7 space probe . Zond space probes ... Zond 7 space probe zoom lenses GS lenses Zond 8 space probe zoom lenses GS interplanetary spacecraft RT lens design . Venus probes Zond 8 space probe . Zond space probes zooplankton Zond 8 space probe The aggregate of passively floating or Soviet spacecraft drifting animal organisms in aquatic ecosys-. Zond space probes tems. . Zond 8 space probe GS animals unmanned spacecraft zooplankton . space probes plankton Venus probes zooplankton ... Zond 8 space probe marine biology . Zond space probes phytoplankton Zond 8 space probe Zond space probes ZPR reactors interplanetary spacecraft USE zero power reactors Zond space probes Zond 1 space probe . . Zond 2 space probe Zond 3 space probe Zuni rocket vehicle . . Zond 4 space probe GS rocket vehicles Zond 5 space probe single stage rocket vehicles . . Zond 6 space probe Zuni rocket vehicle Zond 7 space probe solid propellant rocket engines . Zond 8 space probe Soviet spacecraft . Zond space probes Zvezda Service Module Zond 1 space probe (added June 2000) . . Zond 2 space probe USE Service Module (ISS) Zond 3 space probe . . Zond 4 space probe Zond 5 space probe

zwitterionic compounds

(added October 2001) USE zwitterions

zwitterions (added October 2001) DEF Ionic compounds that include both positive- and negative-charge components but are neutral overall. UF dipolar ions zwitterionic compounds RT amino acids ∞ chemical compounds ∞ dipoles electric dipoles polarization characteristics polymerization surfactants zygotes (added August 2004) The fertilized ovum resulting from the fusion of a male and female gamete. GS cells (biology) . gametocytes . . eggs . . zygotes embryos females fertility fertilization reproduction (biology) sex spermatozoa

Zond 6 space probe

. . Zond 8 space probe

Zond 7 space probe

# **Report Documentation Page**

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|              | extent, the biological sciences. <i>Volume 1 – Hierarchical Listing With Definitions</i> contains over  |                          |                          |                        |                    |  |  |
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